

## P18-669 Llanwern Phase 4G Soil Chemical Screening Results

[illegible]

## P18-669 Llanwern Phase 4G Soil Chemical Screening Results

| T26          | T26        | U26        | U26          | U26          | U27           | U27        | U27           | U27          | U22        | U22          | U23          | U23        | U23          | U24        | U24        | U25          | U25          | V26          | V26          | V27        | V27          | V28        | V28          | V28          | V22        | V22          | V22        | V23          | V23        | V23          | V24        | V24          | V24          |
|--------------|------------|------------|--------------|--------------|---------------|------------|---------------|--------------|------------|--------------|--------------|------------|--------------|------------|------------|--------------|--------------|--------------|--------------|------------|--------------|------------|--------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|--------------|
| 181012-49    | 181012-49  | 181012-49  | 181012-49    | 181012-49    | 181003-43     | 181003-43  | 181003-43     | 181012-49    | 181012-49  | 181012-49    | 181012-49    | 181012-49  | 181012-49    | 181012-49  | 181012-49  | 181012-49    | 181012-49    | 181012-22    | 181018-22    | 181018-22  | 181018-22    | 181018-22  | 181018-22    | 181018-22    | 181018-22  | 181018-22    | 181018-22  | 181018-22    | 181018-22  | 181018-22    | 181018-22  | 181018-22    |              |
| 18512139     | 18512148   | 18511954   | 18512026     | 18512107     | 18449507      | 18449354   | 18449358      | 18512091     | 18512095   | 18512005     | 18512018     | 18512042   | 18511995     | 18511999   | 18511978   | 18511985     | 18548126     | 18548131     | 18548150     | 18548164   | 18548185     | 18548198   | 18548298     | 18548508     | 18548138   | 18548298     | 18548508   | 18548523     | 18548515   | 18548532     | 18548543   | 18548551     |              |
| 4C-H4        | 4C-H4      | 4C-H5      | 4C-H5        | 4C-H5        | 4C-H6         | 4C-H6      | 4C-H6         | 4C-I1        | 4C-I1      | 4C-I2        | 4C-I2        | 4C-I2      | 4C-I3        | 4C-I3      | 4C-I4      | 4C-I4        | 4C-I5        | 4C-I5        | 4C-I6        | 4C-I6      | 4C-I7        | 4C-I7      | 4C-I7        | 4C-I7        | 4C-I7      | 4C-I7        | 4C-I7      | 4C-I7        | 4C-I7      | 4C-I7        | 4C-I7      | 4C-I7        |              |
| 1.00-1.00    | 1.60-1.60  | 0.50-0.50  | 1.00-1.00    | 1.80-1.80    | 0.50-0.50     | 1.00-1.00  | 1.50-1.50     | 0.50-0.50    | 1.10-1.10  | 0.50-0.50    | 1.00-1.00    | 1.50-1.50  | 0.50-0.50    | 0.80-0.80  | 0.50-0.50  | 1.00-1.00    | 0.50-0.50    | 1.00-1.00    | 0.50-0.50    | 1.00-1.00  | 0.50-0.50    | 1.00-1.00  | 0.50-0.50    | 1.00-1.00    | 0.50-0.50  | 1.00-1.00    | 2.00-2.00  | 0.50-0.50    | 1.00-1.00  | 2.00-2.00    | 0.50-0.50  | 1.50-1.50    |              |
| 11/10/2018   | 11/10/2018 | 11/10/2018 | 11/10/2018   | 11/10/2018   | 02/10/2018    | 02/10/2018 | 02/10/2018    | 11/10/2018   | 11/10/2018 | 11/10/2018   | 11/10/2018   | 11/10/2018 | 11/10/2018   | 11/10/2018 | 11/10/2018 | 11/10/2018   | 11/10/2018   | 10/17/2018   | 10/17/2018   | 10/17/2018 | 10/17/2018   | 10/17/2018 | 10/17/2018   | 10/17/2018   | 10/17/2018 | 10/17/2018   | 10/17/2018 | 10/17/2018   | 10/17/2018 | 10/17/2018   | 10/17/2018 | 10/17/2018   |              |
|              |            |            |              |              |               |            |               |              |            |              |              |            |              |            |            |              |              |              |              |            |              |            |              |              |            |              |            |              |            |              |            |              |              |
| Not Detected | -          | -          | Not Detected | Not Detected | Not Detected  | -          | Not Detected  | Not Detected | -          | Not Detected | Not Detected | -          | Not Detected | -          | -          | Not Detected | Not Detected | Not Detected | Not Detected | -          | Not Detected | -          | Not Detected | Not Detected | -          | Not Detected | -          | Not Detected | -          | Not Detected | -          | Not Detected | Not Detected |
| -            | -          | -          | -            | -            | -             | -          | -             | -            | -          | -            | -            | -          | -            | -          | -          | -            | -            | -            | -            | -          | -            | -          | -            | -            | -          | -            | -          | -            | -          | -            | -          | -            |              |
| -            | -          | -          | -            | -            | -             | -          | -             | -            | -          | -            | -            | -          | -            | -          | -          | -            | -            | -            | -            | -          | -            | -          | -            | -            | -          | -            | -          | -            | -          | -            | -          | -            |              |
| 4.29         | 4.31       | 4.59       | 6.15         | 4.21         | 4.9           | 29.8       | 8.22          | 47.8         | 7.83       | 26.4         | 27.1         | 10.1       | 4.19         | 4.22       | 4.38       | 3.78         | 9.3          | 11           | 7.2          | 10         | 6.9          | 10         | 11           | 8.9          | 16         | 14           | 11         | 15           | 6.5        | 11           | 9.9        |              |              |
| Dark Brown   | Dark Brown | Dark Brown | Dark Brown   | Dark Brown   | Dark Brown    | Dark Brown | Dark Brown    | Black        | Black      | Black        | Black        | Black      | Dark Brown   | Black      | Dark Brown | Dark Brown   | Dark Brown   | Dark Brown   | Dark Brown   | Dark Brown | Dark Brown   | Dark Brown | Dark Brown   | Dark Brown   | Dark Brown | Dark Brown   | Dark Brown | Dark Brown   | Dark Brown | Dark Brown   | Dark Brown | Dark Brown   | Dark Brown   |
| Stones       | Stones     | Stones     | Stones       | Stones       | Crushed Brick | Stones     | Crushed Brick | Brick        | Vegetation | Stones       | Stones       | Stones     | Stones       | Vegetation | None       | Vegetation   | Stones       | Vegetation   | Vegetation   | Vegetation | Stones       | Stones     | Stones       | Stones       | Stones     | Stones       | Stones     | Stones       | Stones     | Stones       | Stones     | Stones       |              |
| Sand         | Sand       | Sand       | Sand         | Sandy Loam   | Sandy Loam    | Sandy Loam | Sandy Loam    | Stone/Soil   | Stone/Soil | Sand         | Sand         | Sand       | Stone/Soil   | Stone/Soil | Stone/Soil | Stone/Soil   | Sandy Loam   | Sandy Loam   | Loamy Sand   | Sandy Loam | Sand         | Sandy Loam | Sandy Loam   | Sandy Loam   | Sandy Loam | Sandy Loam   | Sandy Loam | Sandy Loam   | Sandy Loam | Sandy Loam   | Sandy Loam | Sandy Loam   |              |
| 9.32         | 8.98       | 9.58       | 9.03         | 8.89         | 10.4          | 10.8       | 9.86          | 8.81         | 11.7       | 9.1          | 8.64         | 9.5        | 11.6         | 10.9       | 10.8       | 9.21         | 10.6         | 9.19         | 10.5         | 12.3       | 9.86         | 10.7       | 8.51         | 8.75         | 8.3        | 8.32         | 9.52       | 9.96         | 9.38       | 9.08         | 9.31       |              |              |
| <1           | <1         | <1         | <1           | <1           | <1            | <1         | <1            | 1.42         | <1         | <1           | 1.41         | <1         | <1           | <1         | <1         | <1           | <1           | <1           | <1           | <1         | <1           | <1         | <1           | <1           | <1         | <1           | <1         | <1           | <1         | <1           | <1         |              |              |
| <12          | <12        | <12        | <12          | <12          | <12           | <12        | <12           | <12          | <12        | <12          | <12          | <12        | <12          | <12        | <12        | <12          | <12          | <12          | <12          | <12        | <12          | <12        | <12          | <12          | <12        | <12          | <12        | <12          | <12        | <12          | <12        |              |              |
| 196000       | 127000     | 206000     | 164000       | 83300        | 226000        | 132000     | 166000        | 108000       | 83100      | 134000       | 134000       | 63500      | 169000       | 90900      | 95900      | 281000       | 22800        | 43000        | 93400        | 98000      | 57000        | 108000     | 40300        | 19500        | 217000     | 90300        | 73800      | 93600        | 78600      | 70500        | 81500      |              |              |
| 14.8         | 10         | 16.8       | 13.8         | 12.4         | 16.1          | 10.7       | 11.1          | 8.45         | <6         | 21.3         | 10.1         | 8.37       | 11.6         | 16.1       | 9.11       | 21.6         | 4.13         | 6.28         | 9.64         | 7.28       | 7.39         | 5.68       | 8.54         | 5.87         | 11.4       | 9.25         | 8.72       | 10.5         | 9.31       | 9.53         | 8.6        |              |              |
| <0.2         | <0.02      | <0.2       | <0.2         | <0.2         | 0.558         | <0.2       | 0.174         | 1.19         | <0.2       | 1.56         | 0.774        | 1.46       | 1.86         | <0.2       | <0.2       | <0.2         | <0.02        | <0.02        | <0.02        | 0.149      | <0.02        | 0.155      | 0.0604       | <0.2         | 0.184      | <0.02        | <0.02      | 3.14         | <0.02      | <0.02        | <0.02      |              |              |
| 9.03         | 30.5       | 115        | 101          | 34.4         | 99.3          | 369        | 49.5          | 36.4         | 109        | 214          | 12.5         | 171        | 91.8         | 116        | 52.1       | 54.4         | 19.6         | 22.3         | 21.7         | 462        | 41.5         | 207        | 39.8         | 14.9         | <9         | 40.1         | 81.7       | 47.2         | 18.2       | 9.74         | 121        |              |              |
| 7880         | 5960       | 11800      | 9890         | 3000         | 10500         | 15500      | 6130          | 3360         | 18200      | 11800        | 5070         | 7050       | 7680         | 9750       | 8740       | 8840         | 6680         | 4520         | 4630         | 29500      | 5450         | 19100      | 3950         | 4360         | 14300      | 4730         | 10500      | 4800         | 4880       | 3010         | 9220       |              |              |
| 19.1         | 12.5       | 38.8       | 25.9         | 28.6         | 43.4          | 42.6       | 17.7          | 21.7         | 17         | 27.8         | 36           | 22.6       | 17.8         | 17.4       | 25.7       | 32.7         | 4.45         | 22.2         | 12.1         | 18.8       | 11.1         | 10.4       | 17.3         | 11.2         | 21.2       | 17.9         | 14.5       | 25.7         | 43.6       | 28.8         | 15.9       |              |              |
| <1.4         | <0.14      | <1.4       | <1.4         | <1.4         | <1.4          | <0.14      | <1.4          | <0.14        | <1.4       | <0.14        | <0.14        | <0.14      | <0.14        | <1.4       | <1.4       | <1.4         | <1.4         | <0.14        | <0.14        | <1.4       | <1.4         | <0.14      | <0.14        | <0.14        | <0.14      | <1.4         | <0.14      | <1.4         | <0.14      | <0.14        | <0.14      |              |              |
| 28           | 13.3       | 47.3       | 27.5         | 27.2         | 27            | 238        | 18            | 25.1         | 11.5       | 28.6         | 22.6         | 15.1       | 18.7         | 19.6       | 37.9       | 2.96         | 18.6         | 16           | 13.1         | 8.84       | 6.72         | 19.1       | 6.66         | 15.7         | 15         | 13.3         | 35.2       | 14.3         | 19.5       | 13.6         |            |              |              |
| 51.3         | 26         | 55.9       | 66.2         | 36.1         | 67.6          | 26.7       | 41.6          | 76.9         | 25         | 113          | 127          | 25.5       | 53.1         | 34.4       | 49.9       | 96.7         | 3.53         | 8.16         | 29.1         | 24.4       | 45.8         | 23.2       | 60.4         | 12.5         | 28.5       | 67.1         | 62.1       | 56.4         | 84.5       | 56.5         | 41.5       |              |              |
| <10          | 1.25       | <10        | <10          | <10          | 6.15          | <10        | 3.89          | 1.02         | <10        | 1.37         | 4.02         | 1.76       | <10          | <10        | <10        | 4.58         | 2.93         | <1           | 13.7         | 2.56       | 4.94         | 2.66       | 3.1          | <10          | 1.87       | 3.76         | <10        | 1.25         | <1         | 3.55         |            |              |              |
| 132          | 87.5       | 205        | 176          | 104          | 309           | 281        | 92.1          | 50.8         | 134        | 375          | 72.3         | 124        | 143          | 129        | 116        | 162          | 64.3         | 59.3         | 79           | 330        | 72.4         | 223        | 49.6         | 42           | 129        | 72.9         | 124        | 86.2         | 65.9       | 60.5         | 126        |              |              |
| 174          | 103        | 195        | 251          | 114          | 301           | 138        | 180           | 261          | 68.3       | 394          | 593          | 117        | 223          | 137        | 163        | 315          | 32.8         | 49.4         | 154          | 60         | 203          | 138        | 187          | 50           | 81.8       | 258          | 248        | 448          | 302        | 239          | 188        |              |              |
| 4.29         | 4.31       | 4.59       | 6.15         | 4.21         | 4.9           | 29.8       | 8.22          | 47.8         | 7.83       | 26.4         | 27.1         | 10.1       | 4.19         | 4.22       | 4.38       | 3.78         | 9.94         | 1.68         | 1.66         | 3.26       | 6.47         | 5.14       | 15.4         | 11.7         | 19.3       | 32.1         | 10.2       | 12.3         | 9.79       | 59.1         | 14.9       |              |              |
| <0.01        | <0.01      | <0.01      | <0.01        | <0.01        | <0.01         | <0.01      | <0.01         | 0.0167       | 0.011      | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | 0.012      | <0.01        | <0.01        | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      |              |              |
| <0.01        | <0.01      | <0.01      | <0.01        | <0.01        | 0.0231        | <0.01      | 0.0622        | 0.0594       | <0.01      | <0.01        | <0.01        | 0.0344     | 0.0343       | 0.0469     | <0.01      | <0.01        | <0.01        | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      |              |              |
| <0.01        | <0.01      | <0.01      | <0.01        | <0.01        | <0.01         | 0.0147     | <0.01         | 0.0544       | 0.0583     | <0.01        | <0.01        | <0.01      | 0.025        | 0.231      | 0.0992     | <0.01        | <0.01        | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      |              |              |
| <0.01        | <0.01      | <0.01      | <0.01        | <0.01        | <0.01         | 0.0274     | <0.01         | 0.0866       | 0.0759     | <0.01        | <0.01        | <0.01      | 0.0594       | 1.48       | 0.306      | <0.01        | <0.01        | <0.01        | <0.01        | <0.01      | <0.01        | 0.0236     | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      |              |              |
| 2.21         | 1.96       | 0.453      | 1.39         | <0.1         | 4.72          | 37.2       | 2.05          | 46.4         | 22.4       | 6.49         | 5.67         | 2.64       | 3.95         | 23.3       | 9.62       | 2.77         | <0.1         | <0.1         | 2.54         | 11.5       | 41           | 12         | 3.35         | 4.65         | 4.31       | 4.25         | 2.46       | 2.22         | 0.885      | 1.45         | 1.16       |              |              |
| 10.7         | 19.3       | 4.12       | 6.57         | <0.1         | 18.9          | 114        | 11.9          | 194          | 83.7       | 18.7         | 13.9         | 11.2       | 13.9         | 15.4       | 11.8       | 11.2         | 2.1          | 4.18         | 11.4         | 27         | 116          | 59         | 19.5         | 32.6         | 86.9       | 10.7         | 9.21       | 15.5         | 4.74       | 5.54         | 8.23       |              |              |
| 126          | 339        | 53.4       | 57.3         | 11.8         | 83.8          | 92.5       | 60.5          | 154          | 543        | 394          | 215          | 89.1       | 135          | 78.8       | 93.1       | 83.7         | 30.9         | 28.9         | 110          | 85.1       | 821          | 388        | 91.8         | 134          | 80.6       | 45.4         | 30.7       | 39.2         | 27.1       | 24.8         | 22.8       |              |              |
| 82.2         | 203        | 23.2       | 33.6         | 4.98         | 56.4          | 5.85       | 10.9          | 58.5         | 330        | 417          | 205          | 43.8       | 54.9         | 44.1       | 60.6       | 28.8         | 33.9         | 8.43         | 38.2         | 26.2       | 226          | 98.3       | 25.4         | 23.5         | 3.84       | 12.6         | 12         | 13.7         | 12.1       | 5.51         | 2.27       |              |              |
| 221          | 564        | 81.2       | 98.8         | 16.8         | 164           | 250        | 85.3          | 452          | 979        | 837          | 439          | 147        | 208          | 162        | 175        | 126          | 66.9         | 41.5         | 162          | 150        | 1210         | 557        | 140          | 194          | 176        | 72.9         | 54.4       | 70.7         | 44.5       | 37.3         | 34.5       |              |              |
| <0.01        | <0.01      | <0.01      | <0.01        | <0.01        | <0.01         | <0.01      | <0.01         | <0.01        | <0.01      | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01      | <0.01        | <0.01        | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      |              |              |
| <0.01        | <0.01      | <0.01      | <0.01        | <0.01        | <0.01         | <0.01      | <0.01         | <0.01        | 0.0154     | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01      | <0.01        | <0.01        | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      | <0.01        | <0.01      |              |              |
| <0.01        | <0.01      | <0.01      | <0.01        | &lt          |               |            |               |              |            |              |              |            |              |            |            |              |              |              |              |            |              |            |              |              |            |              |            |              |            |              |            |              |              |

## P18-669 Llanwern Phase 4G Soil Chemical Screening Results

| V25        | V25        | V25        | V26        | V26        | W23        | W23        | X22        | X22        | X23        | X23        | Y22        | Y22        | Y23        | Y23        | W25        | W25        | Y25        | Y25        | Z25        | Z25        | AA25       | AA25       | AA25       | AA26       | AA26       | AA27       | AA27       | AA28       | AA28       | AC25       | AC25      |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|
| 181018-22  | 181018-22  | 181018-22  | 181018-22  | 181018-22  | 181020-29  | 181020-29  | 181030-48  | 181030-48  | 181030-48  | 181030-48  | 181030-48  | 181030-48  | 181030-48  | 181030-48  | 181030-48  | 181030-48  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  | 181031-51  |           |
| 18548079   | 18548087   | 18548092   | 18548111   | 18548115   | 18569431   | 18569435   | 18632718   | 18632782   | 18632739   | 18632746   | 18632792   | 18632797   | 18632721   | 18632731   | 18632769   | 18632775   | 18639087   | 18639150   | 18639237   | 18639243   | 18639252   | 18639127   | 18639132   | 18639144   | 18639155   | 18639205   | 18639109   | 18639109   | 18639151   |            |           |
| 4C-J4      | 4C-J4      | 4C-J4      | 4C-J5      | 4C-J5      | 4C-K2      | 4C-K2      | 4E-C1      | 4E-C2      | 4E-C2      | 4E-C2      | 4E-D1      | 4E-D1      | 4E-D2      | 4E-D2      | 4E-B4      | 4E-B4      | 4E-C4      | 4E-C4      | 4E-D4      | 4E-D4      | 4E-E4      | 4E-E4      | 4E-E4      | 4E-E5      | 4E-E5      | 4E-E6      | 4E-E6      | 4E-E7      | 4E-E7      | 4E-G4      | 4E-G4     |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID     |
| 0.50-0.50  | 1.00-1.00  | 1.40-1.40  | 0.50-0.50  | 1.00-1.00  | 0.50-0.50  | 1.00-1.00  | 0.20-0.20  | 0.40-0.40  | 0.50-0.50  | 1.00-1.00  | 0.50-0.50  | 1.00-1.00  | 0.25-0.25  | 1.00-1.00  | 0.50-0.50  | 1.00-1.00  | 0.50-0.50  | 1.00-1.00  | 0.50-0.50  | 1.20-1.20  | 0.50-0.50  | 1.00-1.00  | 1.50-1.50  | 0.20-0.20  | 0.80-0.80  | 0.25-0.25  | 0.80-0.80  | 0.30-0.30  | 0.80-0.80  | 0.50-0.50  | 1.00-1.00 |
| 10/17/2018 | 10/17/2018 | 10/17/2018 | 10/17/2018 | 10/17/2018 | 18/10/2018 | 18/10/2018 | 29/10/2018 | 29/10/2018 | 29/10/2018 | 29/10/2018 | 29/10/2018 | 29/10/2018 | 29/10/2018 | 29/10/2018 | 29/10/2018 | 29/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 | 30/10/2018 |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |           |
|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            | </         |            |            |            |            |            |            |            |            |            |            |            |           |

## P18-669 Llanwern Phase 4G Soil Chemical Screening Results

Pill Material

| AB27       | AB27         | W29        | W29        | AE27       | AE27       | AC28         | AD29         | AD29       | AE29         | W28        | W28          | X28          | Z28          | Y28          | Y28        | AD25       | AD25         | AE25       | AE25         | AE26       | AE26         | X29          | X29             | AA22            | AA22            | AA22          | AB25         | AB25         | AD23         | AD23         | AE24       |                                |
|------------|--------------|------------|------------|------------|------------|--------------|--------------|------------|--------------|------------|--------------|--------------|--------------|--------------|------------|------------|--------------|------------|--------------|------------|--------------|--------------|-----------------|-----------------|-----------------|---------------|--------------|--------------|--------------|--------------|------------|--------------------------------|
| 181031-51  | 181031-51    | 181101-44  | 181101-44  | 181107-11  | 181107-11  | 181121-47    | 181121-47    | 181121-47  | 181121-47    | 181102-43  | 181102-43    | 181102-43    | 181102-43    | 181102-43    | 181102-43  | 181102-43  | 181106-25    | 181106-25  | 181106-25    | 181106-25  | 181106-25    | 181106-25    | 181101-44       | 181101-44       | 181102-43       | 181102-43     | 181102-43    | 181031-51    | 181031-51    | 181103-16    | 181103-16  | 181106-25                      |
| 18639174   | 18639180     | 18646138   | 18646160   | 18681237   | 18681241   | 18786527     | 18786517     | 18786517   | 18786517     | 18654391   | 18654398     | 18654016     | 18654118     | 18654030     | 18654036   | 18673542   | 18673546     | 18673546   | 18673509     | 18673527   | 18673532     | 18673532     | 18646172        | 18646184        | 18654065        | 18654071      | 18639092     | 18639099     | 18661014     | 18661019     | 18673517   |                                |
| 4E-F6      | 4E-F6        | 4E-A8      | 4E-A8      | 4G-B8      | 4G-B8      | 4G-A7        | 4G-A8        | 4G-A8      | 4G-B9        | 4E-A7      | 4E-A7        | 4E-D7        | 4E-C7        | 4E-C7        | 4E-C7      | 4G-A6      | 4G-A6        | 4G-B5      | 4G-B5        | 4G-B6      | 4G-B6        | 4E-B8        | 4E-B8           | 4E-E1           | 4E-E1           | 4E-E1         | 4E-F4        | 4E-F4        | 4G-B2        | 4G-B2        | 4G-B4      |                                |
| SOLID      | SOLID        | SOLID      | SOLID      | SOLID      | SOLID      | SOLID        | SOLID        | SOLID      | SOLID        | SOLID      | SOLID        | SOLID        | SOLID        | SOLID        | SOLID      | SOLID      | SOLID        | SOLID      | SOLID        | SOLID      | SOLID        | SOLID        | SOLID           | SOLID           | SOLID           | SOLID         | SOLID        | SOLID        | SOLID        | SOLID        | SOLID      |                                |
| 0.30<0.30  | 0.80<0.80    | 0.50<0.50  | 1.00<1.00  | 0.40<0.40  | 0.80<0.80  | 0.50<0.50    | 0.40<0.40    | 0.70<0.70  | 0.50<0.50    | 0.40<0.40  | 0.90<0.90    | 0.50<0.50    | 0.50<0.50    | 0.50<0.50    | 1.00<1.00  | 0.50<0.50  | 0.70<0.70    | 0.50<0.50  | 1.00<1.00    | 0.50<0.50  | 0.90<0.90    | 0.50<0.50    | 1.00<1.00       | 0.50<0.50       | 1.00<1.00       | 2.00<2.00     | 0.50<0.50    | 1.00<1.00    | 0.70<0.70    | 1.30<1.30    | 0.30<0.30  |                                |
|            |              |            |            |            |            |              |              |            |              |            |              |              |              |              |            |            |              |            |              |            |              |              |                 |                 |                 |               |              |              |              |              |            |                                |
| 30/10/2018 | 30/10/2018   | 10/31/2018 | 10/31/2018 | 11/6/2018  | 11/6/2018  | 20/11/2018   | 20/11/2018   | 20/11/2018 | 20/11/2018   | 01/11/2018 | 01/11/2018   | 01/11/2018   | 01/11/2018   | 01/11/2018   | 01/11/2018 | 05/11/2018 | 05/11/2018   | 05/11/2018 | 05/11/2018   | 05/11/2018 | 05/11/2018   | 10/31/2018   | 10/31/2018      | 01/11/2018      | 01/11/2018      | 01/11/2018    | 30/10/2018   | 30/10/2018   | 02/11/2018   | 02/11/2018   | 05/11/2018 |                                |
|            |              |            |            |            |            |              |              |            |              |            |              |              |              |              |            |            |              |            |              |            |              |              |                 |                 |                 |               |              |              |              |              |            |                                |
|            |              |            | Chrysotile |            | Chrysotile |              |              |            |              |            |              |              |              |              |            |            |              |            |              |            |              |              |                 |                 |                 |               |              |              |              |              |            | Chrysotile<br>(White) Asbestos |
| -          | Not Detected | -          | Detected   | -          | Detected   | Not Detected | Not Detected | -          | Not Detected | -          | Not Detected | Not Detected | Not Detected | Not Detected | -          | -          | Not Detected | -          | Not Detected | -          | Not Detected | Not Detected | Not Detected    | Not Detected    | Not Detected    | Not Detected  | Not Detected | Not Detected | Not Detected | Not Detected | Detected   |                                |
| -          | -            | -          | <0.001     | -          | 0.0028     | -            | -            | -          | -            | -          | -            | -            | -            | -            | -          | -          | -            | -          | -            | -          | -            | -            | -               | -               | -               | -             | -            | -            | -            | -            | 0.0047     |                                |
| -          | -            | -          | <0.001     | -          | 0.0028     | -            | -            | -          | -            | -          | -            | -            | -            | -            | -          | -          | -            | -          | -            | -          | -            | -            | -               | -               | -               | -             | -            | -            | -            | -            | -          |                                |
| 8.8        | 8.8          | 7.5        | 7.7        | 6          | 6.7        | 9.2          | 8.2          | 4.6        | 7.6          | 9.4        | 14           | 7.2          | 15           | 7.7          | 13         | 14         | 14           | 7.7        | 7.1          | 9.7        | 9.4          | 4.2          | Dark Brown      | 6.8             | 12              | 8.9           | 11           | 7.2          | 8.5          | 7.4          | 9          | 8.6                            |
| Grey       | Dark Brown   | Dark Brown | Dark Brown | Dark Brown | Dark Brown | Dark Brown   | Light Brown  | Dark Brown | Dark Brown   | Dark Brown | Dark Brown   | Dark Brown   | Dark Brown   | Dark Brown   | Dark Brown | Dark Brown | Dark Brown   | Dark Brown | Dark Brown   | Dark Brown | Dark Brown   | Dark Brown   | Dark Brown      | Dark Brown      | Dark Brown      | Dark Brown    | Dark Brown   | Dark Brown   | Dark Brown   | Dark Brown   | Dark Brown | Dark Brown                     |
| Stones     | Vegetation   | Stones     | Stones     | Stones     | Stones     | Stones       | Stones       | Stones     | Stones       | Vegetation | Stones       | Stones       | Stones       | Stones       | Stones     | Stones     | Stones       | Stones     | Stones       | Stones     | Stones       | Stones       | Stones / Stones | Stones / Stones | Stones / Stones | Stones / None | Dark Brown   | Dark Brown   | Dark Brown   | Dark Brown   | Dark Brown |                                |
| Sandy Loam | Sandy Loam   | Sand       | Loamy Sand | Loamy Sand | Loamy Sand | Sandy Loam   | Loamy Sand   | Sand       | Sandy Loam   | Sandy Loam | Stone/Soil   | Stone/Soil   | Loamy Sand   | Sand         | Sand       | Sand       | Sandy Clay   | Sand       | Loamy Sand   | Sandy Loam | Sandy Loam   | Loamy Sand   | Loamy Sand      | Sand            | Loamy Sand      | Stone/Soil    | Sandy Loam   | Sandy Loam   | Sand         | Loamy Sand   | Loamy Sand |                                |
| 12.7       | 12.1         | 10.8       | 12.5       | 10.6       | 12.2       | 10.7         | 10.1         | 11.4       | 11.7         | 10.3       | 11.6         | 12.7         | 10.3         | 10.4         | 11.4       | 11.9       | 11.6         | 8.81       | 12.3         | 10.5       | 11.9         | 12.8         | 12.8            | 9.42            | 11.2            | 11.5          | 10.1         | 9.64         | 9.72         | 11.4         | 10.9       |                                |
| <1         | 1.02         | <1         | <1         | <1         | <1         | <1           | <1           | <1         | <1           | <1         | <1           | <1           | <1           | <1           | <1         | <1         | <1           | <1         | <1           | <1         | <1           | <1           | <1              | <1              | <1              | <1            | <1           | <1           | <1           | <1           | <1         |                                |
| <12        | <12          | <12        | <12        | 22.5       | <12        | <12          | <12          | <12        | <12          | <12        | <12          | 21           | 28.2         | 13.6         | <12        | 22.7       | <12          | <12        | <12          | 15.6       | <12          | 15.6         | <12             | 117             | <12             | <12           | <12          | <12          | <12          | <12          | <12        |                                |
| 129000     | 112000       | 133000     | 66500      | 205000     | 177000     | 434000       | 91800        | 26700      | 196000       | 183000     | 134000       | 220000       | 77100        | 174000       | 152000     | 165000     | 159000       | 25000      | 207000       | 58700      | 115000       | 172000       | 194000          | 41600           | 64500           | 84900         | 38200        | 37500        | 339000       | 49700        | 53600      |                                |
| 4.75       | <6           | <6         | 5.52       | 12         | <6         | 6.83         | 7.85         | 2.33       | 7.56         | 13.6       | <8           | 10.5         | 12.2         | 15.3         | 9.98       | 13.8       | <6           | 8.81       | <6           | 10.7       | <6           | <6           | 8.97            | 7.22            | 8.25            | 6.69          | 11.7         | 9.29         | 21.6         | 7.76         | 8.77       |                                |
| <0.02      | <0.2         | <0.2       | <0.02      | <0.2       | <0.02      | 0.686        | 0.804        | 1.84       | <0.2         | <0.2       | <0.2         | <0.2         | <0.2         | <0.2         | <0.2       | 1.19       | <0.2         | 0.245      | <0.2         | 0.932      | <0.2         | <0.2         | <0.2            | <0.02           | 0.877           | <0.02         | <0.02        | <0.02        | <0.02        | <0.02        | <0.02      |                                |
| 352        | 439          | <9         | 115        | 65.8       | 397        | 33           | 245          | 49.4       | 403          | 188        | 359          | 775          | <9           | 63.2         | 168        | 240        | 533          | 21.7       | 763          | 79.1       | 421          | 987          | 825             | 37              | 115             | 143           | 108          | 59           | <9           | <0.9         | 56.3       |                                |
| 29500      | 32200        | 2070       | 13100      | 7300       | 413        | 4350         | 15700        | 2950       | 3380         | 11500      | 26600        | 33000        | 1940         | 11400        | 7850       | 23700      | 30100        | 1110       | 4310         | 6010       | 2070         | 31900        | 33200           | 3000            | 10400           | 17100         | 5510         | 5380         | 10200        | 467          | 67.6       |                                |
| 12.4       | <14          | <14        | 11.1       | 84.5       | 26.4       | 10.7         | 19.2         | 4.82       | 62.8         | 25.1       | 20           | 34.4         | <14          | 25.3         | 24.9       | 32.3       | 15.9         | 26.5       | 28.3         | 23         | 16.1         | 16.2         | 33.4            | 14.6            | 29.2            | 15.4          | 18.5         | 18.7         | 15.7         | 3.21         | 10.9       |                                |
| <0.14      | <1.4         | <1.4       | <0.14      | <1.4       | <1.4       | <0.14        | <1.4         | <0.14      | <1.4         | <1.4       | <1.4         | <1.4         | <1.4         | <1.4         | <1.4       | <0.14      | <1.4         | <1.4       | <1.4         | <0.14      | <1.4         | <1.4         | <1.4            | <1.4            | <1.4            | <1.4          | <1.4         | <1.4         | <1.4         | <1.4         | <0.14      |                                |
| 6.38       | 8.31         | 37.5       | 7.78       | 54.3       | 15.4       | 13.1         | 18.9         | 2.88       | 24.3         | 21.6       | 14.6         | 26.4         | 14.3         | 31.6         | 24.2       | 22.3       | 14.3         | 12.7       | 15.6         | 12         | 17.5         | 12.2         | 8.78            | 21.7            | 17.1            | 16            | 10.1         | 12.9         | 11.6         | 31.1         | 6.59       |                                |
| 0.992      | 10.5         | 41.9       | 48.9       | 107        | 26.2       | 32.4         | 37.2         | 28.5       | 30.4         | 86.7       | 36           | 31.2         | 94.4         | 116          | 91.6       | 30.1       | 14.3         | 25.2       | 19.4         | 54.8       | 18.3         | 16.5         | 11.1            | 29.2            | 35.4            | 26.2          | 45.6         | 33.2         | 9.11         | 9.73         | 59.6       |                                |
| 10.8       | 21.1         | <10        | 6.07       | <10        | 20.9       | 1.3          | <10          | <1         | 15.6         | <10        | 10.9         | 22           | <10          | <10          | 6.38       | 15.5       | <1           | 24.3       | 2.33         | 12         | 21.1         | 17.1         | 14.4            | 4.09            | 5.45            | 3.27          | 3.11         | <10          | <1           | 3.23         | 3.23       |                                |
| 283        | 379          | 163        | 117        | 106        | 416        | 58.8         | 225          | 38.8       | 453          | 276        | 419          | 591          | 43.7         | 226          | 140        | 430        | 985          | 40.4       | 702          | 113        | 286          | 499          | 456             | 47              | 155             | 247           | 112          | 128          | 128          | 17.9         | 90.7       |                                |
| 30.9       | 30.2         | 145        | 201        | 446        | 89.5       | 114          | 112          | 109        | 69.1         | 346        | 85.9         | 97.6         | 270          | 422          | 323        | 99.3       | 50.6         | 45.1       | 51.8         | 332        | 75.2         | 55.3         | 75.5            | 128             | 130             | 83.5          | 116          | 96.3         | 68.5         | 25.9         | 233        |                                |
| 1.25       | 0.972        | 51.4       | 4.91       | 14.3       | <0.35      | 24.8         | 6.1          | 10.8       | 9.64         | 6.81       | 8.45         | 1.56         | 2.78         | 6.84         | 27.1       | 5.69       | 3.22         | 9.03       | 1.08         | 6.47       | 4.26         | 1.68         | 1.7             | 10.7            | 19.3            | 6.6           | 28.1         | 30.5         | 14.3         | <0.35        | 0.378      |                                |
| <0.02      | <0.02        | <0.02      | 0.0336     | <0.02      | <0.02      | 0            | <0.02        | <0.02      | <0.02        | <0.01      | <0.2         | <0.02        | <0.02        | <0.02        | <0.02      | <0.02      | <0.02        | <0.02      | <0.02        | <0.02      | <0.02        | <0.02        | <0.02           | <0.02           | <0.02           | <0.02         | <0.01        | <0.02        | <0.01        | <0.02        | <0.02      |                                |
| <0.02      | <0.02        | <0.02      | 0.137      | <0.02      | 0          | <0.02        | <0.02        | <0.02      | <0.02        | 0.172      | 3.32         | 0.0377       | <0.02        | 0.0314       | <0.02      | <0.02      | <0.02        | <0.02      | <0.02        | <0.02      | <0.02        | <0.02        | <0.02           | <0.02           | <0.02           | <0.01         | 0.0549       | 0.0418       | <0.01        | <0.02        | <0.02      |                                |
| <0.02      | <0.02        | <0.02      | 0.444      | <0.02      | <0.02      | <0.02        | <0.02        | <0.02      | <0.02        | 2.5        | 46.7         | 0.0237       | <0.02        | 0.0238       | <0.02      | <0.02      | <0.02        | <0.02      | <0.02        | <0.02      | <0.02        | <0.02        | <0.02           | <0.02           | <0.02           | <0.01         | 0.0373       | 0.0237       | <0.01        | <0.01        | <0.02      |                                |
| <0.02      | <0.02        | <0.02      | 2.04       | <0.02      | <0.02      | <0.02        | <0.02        | <0.02      | <0.02        | 7.19       | 112          | 0.109        | <0.02        | <0.02        | <0.02      | <0.02      | <0.02        | <0.02      | <0.02        | <0.02      | <0.02        | <0.02        | <0.02           | <0.02           | <0.02           | <0.01         | 0.0461       | 0.0203       | <0.01        | <0.01        | <0.02      |                                |
| 0.718      | 14.5         | 5.47       | 34.2       | 2.6        | 2.13       | 0.793        | 2.71         | 0.593      | 1.85         | 77.4       | 177          | 1.71         | <0.1         | 4.01         | 2.92       | 2.03       | 1.5          | 1.67       | 1.61         | 15         | 2.03         | 0.617        | <0.1            | 5.78            | 2.61            | 2.01          | 1.15         | 1.09         | <0.1         | 4.97         | 2.89       |                                |
| 5.58       | 75.1         | 23.9       | 79.4       | 21.8       | 9.8        | 4.98         | 26.9         | 5.21       | 9.2          | 108        | 170          | 10.9         | 1.25         | 14.2         | 9.06       | 8.87       | 3.86         | 4.36       | 7.42         | 13.4       | 9.5          | 0.203        | <0.1            | 23.7            | 39.4            | 12.1          | 12.2         | 12.2         | 4.52         | 20.6         | 11.6       |                                |
| 18.2       | 63.1         | 131        | 404        | 226        | 60.1       | 60.5         | 167          | 24.7       | 60.7         | 425        | 561          | 90.5         | 17.7         | 97.9         | 42         | 53.5       | 21.9         | 11.9       | 51.5         | 121        | 74.1         | 17.4         | 37.1            | 94.5            | 77.6            | 45.5          | 27.1         | 31.4         | 42.6         | 48.3         | 79.1       |                                |
| 8.55       | 36.3         | 27.3       | 91.4       | 76.7       | 23.4       | 17.2         | 45.8         | 4.74       | 13.7         | 86.1       | 178          | 38.7         | 1.63         | 116          | 17.3       | 25.2       | 15.1         | 1.46       | 8.9          | 91.6       | 47.5         | 3.88         | 6.78            | 43.7            | 16.7            | 14.2          | 5.28         | 3.78         | 3.13         | 13.1         | 24.9       |                                |
| 33         | 189          | 188        | 609        | 327        | 95.5       | 83.5         | 242          | 35.2       | 85.4         | 4100       | 4410         | 202          | 205          | 255          | 120        | 89.6       | 42.3         | 19.4       | 69.4         | 241        | 133          | 22.1         | 43.9            | 168             | 136             | 73.7          | 45.7         | 48.4         | 50.2         | 87           | 118        |                                |
| <0.02      | <0.02        | <0.02      | <0.02      | <0.02      | <0.02      | <0.02        | <0.02        | <0.02      | <0.02        | <0.02      | <0.02        | <0.02        | <0.02        | <0.02        | <0.02      | <0.02      | <0.02        | <0.02      | <0.02        | <0.02      | <0.02        | <0.02        | <0.02           | <0.01           | <0.02           | <0.02         | &            |              |              |              |            |                                |



## P18-669 Llanwern Phase 4G Soil Chemical Screening Results

| Stockpiles         |                    |               |               |                   |                     |                     |               |                     |               |               |               |                   |              |               |               |               |               |               |                     |                     |                     |                     |                     |                      |                     |                      |                      |                      |                      |                      |               |                      |
|--------------------|--------------------|---------------|---------------|-------------------|---------------------|---------------------|---------------|---------------------|---------------|---------------|---------------|-------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------|----------------------|
| 181207-13          | 181207-13          | 180425-20     | 180425-20     | 180425-20         | 180425-20           | 180425-20           | 180425-20     | 180425-20           | 180425-20     | 180425-20     | 180425-20     | 180425-20         | 180425-20    | 180425-20     | 180425-20     | 180425-20     | 180425-20     | 180526-31     | 180526-31           | 180526-31           | 180526-31           | 180526-31           | 180526-31           | 23-26235             | 23-26235            | 22-23680             | 24-07882             | 24-07882             | 24-07877             | 24-07877             | 24-07877      |                      |
| W54-03             | W54-04             | W140-09       | W140-09.5     | W140-10           | W140-10.5           | W140-11             | W140-11.5     | W140-12             | W140-12.5     | W140-13       | W140-13.5     | W140-14           | W140-14.5    | W140-15       | W140-15.5     | W140-16       | W140-16.5     | W60-01        | W60-01.5            | W60-02              | W60-02.5            | W60-03              | W60-03.5            | 1683537              | 1683538             | 1454852              | 1779763              | 1779764              | 1779752              | 1779753              | 1779754       |                      |
| SOLID              | SOLID              | SOLID         | SOLID         | SOLID             | SOLID               | SOLID               | SOLID         | SOLID               | SOLID         | SOLID         | SOLID         | SOLID             | SOLID        | SOLID         | SOLID         | SOLID         | SOLID         | SOLID         | SOLID               | SOLID               | SOLID               | SOLID               | SOLID               | R179-1               | R179-2              | R157-1               | 4g-SV1               | 4g-SV7               | 4g-SV3               | 4g-SV9               | 4g-SV15       |                      |
| 0.00-0.00          | 0.00-0.00          | 0.00-0.00     | 0.00-0.00     | 0.00-0.00         | 0.00-0.00           | 0.00-0.00           | 0.00-0.00     | 0.00-0.00           | 0.00-0.00     | 0.00-0.00     | 0.00-0.00     | 0.00-0.00         | 0.00-0.00    | 0.00-0.00     | 0.00-0.00     | 0.00-0.00     | 0.00-0.00     | 0.00-0.00     | 0.00-0.00           | 0.00-0.00           | 0.00-0.00           | 0.00-0.00           | 0.00-0.00           |                      |                     |                      |                      |                      |                      |                      |               |                      |
| 06/12/2018         | 06/12/2018         | 24/04/2018    | 24/04/2018    | 24/04/2018        | 24/04/2018          | 24/04/2018          | 24/04/2018    | 24/04/2018          | 24/04/2018    | 24/04/2018    | 24/04/2018    | 24/04/2018        | 24/04/2018   | 24/04/2018    | 24/04/2018    | 24/04/2018    | 24/05/2018    | 24/05/2018    | 24/05/2018          | 24/05/2018          | 24/05/2018          | 24/05/2018          | 45140               | 45140                | 44734               | 45362                | 45362                | 45362                | 45362                | 45362                |               |                      |
|                    |                    |               |               |                   |                     |                     |               |                     |               |               |               |                   |              |               |               |               |               |               |                     |                     |                     |                     |                     | DURHAM               |                     | DURHAM               | DURHAM               | DURHAM               | DURHAM               | DURHAM               | DURHAM        |                      |
|                    |                    |               |               |                   |                     |                     |               |                     |               |               |               |                   |              |               |               |               |               |               |                     |                     |                     |                     |                     |                      |                     |                      |                      |                      |                      |                      |               |                      |
| Not Detected       |                    | Not Detected  |               | Not Detected      |                     | Not Detected        |               | Not Detected        |               | Not Detected  |               | Not Detected      |              | Not Detected  |               | Not Detected  |               |               |                     |                     |                     |                     |                     | No Asbestos Detected |                     | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | Chrysotile    | No Asbestos Detected |
|                    |                    |               |               |                   |                     |                     |               |                     |               |               |               |                   |              |               |               |               |               |               |                     |                     |                     |                     |                     |                      |                     |                      |                      |                      |                      |                      |               |                      |
| 17                 | 14                 | 5.2           | 6.5           | 7.9               | 9.2                 | 5.7                 | 5.3           | 6.2                 | 5.9           | 8.1           | 12            | 12                | 13           | 7.7           | 6.6           | 0.68          | 4.2           | 9.3           | 4.5                 | 4.8                 | 0                   | 0                   | 0.56                | 18                   | 21                  | 5.7                  | 14                   | 15                   | 12                   | 15                   | 15            |                      |
| Dark Brown         | Dark Brown         | Dark Brown    | Dark Brown    | Dark Brown        | Dark Brown          | Dark Brown          | Dark Brown    | Dark Brown          | Dark Brown    | Dark Brown    | Dark Brown    | Dark Brown        | Dark Brown   | Dark Brown    | Dark Brown    | Dark Brown    | Dark Brown    | Dark Brown    | Dark Brown          | Black               | Black               | Dark Brown          | Dark Brown          | Brown                | Brown               | Black                | Brown                | Brown                | Brown                | Brown                | Brown         |                      |
| Vegetation / Stone | Vegetation / Stone | Stones / None | Stones / None | Stones / None     | Stones / Vegetation | Vegetation / Stones | Stones / None | Stones / Vegetation | Stones / None | Stones / None | Stones / None | Stones / None     | Stones / N/A | Stones / None | Stones / None | Stones / None | Stones / None | Stones / None | Stones / Vegetation | Stones / Vegetation | Stones / Vegetation | Stones / Vegetation | Stones / Vegetation | Stones / Vegetation  | Stones / Vegetation | Stones / Vegetation  | Stones / Vegetation  | Stones / Vegetation  | Stones / Vegetation  | Stones / Vegetation  |               |                      |
| Sandy Loam         | Sandy Loam         | Stones/Soil   | Sand          | ry Sample Receive | Sandy Loam          | Stone/Soil          | Sand          | ry Sample Receive   | Sandy Loam    | Stone/Soil    | Sand          | ry Sample Receive | Loamy Sand   | Stones / None | Stones / None | Sand          | Stones / None | Stones / None | Stones / None       | Stones / None       | Stones / None       | Stones / None       | Stones / None       | Stones / None        | Stones / None       | Stones / None        | Stones / None        | Stones / None        | Stones / None        | Stones / None        | Stones / None |                      |
| 8.92               | 8.81               | 11.3          | 11.7          | 9.72              | 10.3                | 10.2                | 9.96          | 9.39                | 9.41          | 9.65          | 8.83          | 8.54              | 8.94         | 8.66          | 9.7           | 9.74          | 10            | 8.61          | 8.6                 | 11.9                | 11.7                | 11.5                | 9.81                | 8.8                  | 9.2                 | 9.7                  | 10.6                 | 10.4                 | 10.6                 | 11.2                 | 10.2          |                      |
| <1                 | <1                 | <1            | <1            | <1                | <1                  | <1                  | <1            | <1                  | <1            | <1            | <1            | <1                | <1           | <1            | <1            | <1            | <1            | 13.6          | 7.92                | <1                  | <1                  | <1                  | 7.68                | 3.7                  | 9.4                 | 0.9                  | <0.50                | 0.6                  | 1.3                  | 0.7                  | <0.50         |                      |
| <12                | <12                | <12           | <12           | <12               | <12                 | <12                 | <12           | <12                 | <12           | <12           | <12           | <12               | <12          | <12           | <12           | <12           | <12           | <12           | <12                 | <12                 | <12                 | <12                 | <12                 | <12                  | <12                 | <12                  | <12                  | <12                  | <12                  | <12                  | <12           |                      |
| 50900              | 39300              | 211000        | 195000        | 151000            | 145000              | 322000              | 267000        | 309000              | 260000        | 159000        | 90500         | 181000            | 244000       | 192000        | 233000        | 193000        | 188000        | 170000        | 119000              | 169000              | 125000              | 130000              | 158000              | 82000                | 65000               | 28000                | 21000                | 21000                | 21000                | 23000                |               |                      |
| 5.63               | 9.36               | <6            | <6            | 11                | 8.86                | 9.51                | 8.01          | 10.3                | 8.73          | 8.83          | <6            | 9.59              | 11           | 11.7          | 6.67          | 14.1          | 10            | 18.3          | 16.3                | <6                  | 4.75                | 5.31                | 12.3                | 11                   | 12                  | 8.9                  | 9.4                  | 15                   | 18                   | 24                   | 16            |                      |
| 0.0684             | 0.264              | 1.9           | 1.79          | 1.38              | 1.13                | 2.74                | 2.44          | 2.75                | 2.2           | 1.41          | 1.4           | 3.44              | 2.46         | 1.62          | 2.55          | 1.54          | 1.61          | 1.61          | 4.53                | 0.798               | <0.02               | 0.268               | 4.55                | 1.9                  | 4.3                 | 0.76                 | 0.57                 | 1.5                  | 1.3                  | 0.92                 | 0.48          |                      |
| 207                | 94.6               | 914           | 863           | 31.2              | 92.6                | <9                  | 27            | <9                  | 12.5          | 3.91          | 18.5          | <9                | 9.6          | 149           | 26.6          | 197           | 100           | 63.5          | 745                 | 340                 | 498                 | 172                 | 74                  | 75                   | 98                  | 200                  | 350                  | 500                  | 420                  | 110                  |               |                      |
| 10000              | 6450               | 41000         | 38100         | 4790              | 7750                | 3880                | 5190          | 2340                | 4340          | 5110          | 3190          | 3520              | 4380         | 5750          | 9550          | 6730          | 14700         | 9980          | 5330                | 42800               | 29500               | 28200               | 14800               | 4800                 | 3800                | 6500                 | 13000                | 18000                | 28000                | 21000                | 8000          |                      |
| 11.9               | 11.8               | 18.6          | 16            | 12.4              | 13.6                | 24.9                | 14.7          | 15.4                | 19.6          | 14.7          | <14           | 19.4              | 18.9         | 16.6          | 18            | 31.9          | 13.9          | 43.4          | 33.9                | <14                 | 17.7                | 10.6                | 28.9                | 35                   | 37                  | 18                   | 27                   | 40                   | 60                   | 48                   | 36            |                      |
| <0.14              | <0.14              | <1.4          | <1.4          | <0.14             | <0.14               | <1.4                | <1.4          | <1.4                | <1.4          | <0.14         | <1.4          | <0.14             | <1.4         | <0.14         | <1.4          | <0.14         | 0.237         | <0.14         | <1.4                | <0.14               | <0.14               | <0.14               | <0.14               | 0.48                 | 0.18                | 0.15                 | 0.15                 | 0.24                 | 0.32                 | 0.18                 | 0.28          |                      |
| 12.6               | 14.7               | 8.98          | 9.96          | 11.4              | 13.9                | 48.6                | 31.3          | 58.2                | 44.6          | 12.5          | 14.8          | 15.4              | 14.7         | 21.6          | 141           | 25.3          | 36.1          | 24.6          | 24.7                | 2.67                | 8.21                | 6.4                 | 19.5                | 23                   | 27                  | 19                   | 24                   | 34                   | 45                   | 35                   | 38            |                      |
| 23.8               | 22.1               | 36.4          | 32.8          | 30.9              | 21                  | 39                  | 18.1          | 22.6                | 12.7          | 11.7          | 18.8          | 62.2              | 34.2         | 28.1          | 31.5          | 48            | 24.9          | 218           | 791                 | 17.2                | 27.5                | 71.6                | 472                 | 230                  | 620                 | 58                   | 89                   | 230                  | 170                  | 100                  | 71            |                      |
| 7.45               | 4.92               | 15            | 16.6          | 1.86              | 3.95                | <10                 | <10           | <10                 | <10           | 1.59          | <10           | <10               | 1.46         | <10           | <1            | 3.31          | 3.02          | 3.22          | 20.3                | 9.51                | 8.54                | 5.53                | 2.4                 | 2.3                  | 0.98                | 3.1                  | 2.6                  | 1.5                  | 1.9                  | 3.2                  |               |                      |
| 243                | 139                | 655           | 691           | 79.2              | 132                 | 268                 | 213           | 279                 | 282           | 115           | 76.5          | 54                | 60           | 140           | 288           | 108           | 235           | 146           | 97                  | 54.4                | 372                 | 474                 | 251                 | 78                   | 69                  | 170                  | 270                  | 310                  | 470                  | 380                  | 230           |                      |
| 111                | 159                | 107           | 84.2          | 113               | 102                 | 71.5                | 57.2          | 63                  | 47.8          | 57.2          | 90.8          | 195               | 96.3         | 116           | 89.1          | 162           | 107           | 1050          | 2990                | 40.5                | 77.8                | 344                 | 2400                | 930                  | 2300                | 150                  | 260                  | 720                  | 470                  | 250                  | 210           |                      |
| 43.3               | 16.1               | 3.45          | 2.31          | 2.76              | 1.26                | 1.09                | 0.94          | 1.1                 | 0.921         | 2.4           | 1.42          | 2.93              | 2.12         | 3.38          | 0.762         | 1.93          | 0.996         | 70.2          | 29.7                | 5.43                | 19.3                | 16.8                | 37.2                | 12                   | 9.2                 | 19                   | 7.1                  | 4.2                  | 9.8                  | 3.9                  | 6.7           |                      |
| <0.02              | <0.02              | <0.04         | <0.04         | <0.04             | <0.04               | <0.04               | <0.04         | <0.04               | <0.04         | <0.04         | <0.04         | <0.04             | <0.04        | <0.04         | <0.04         | <0.04         | <0.04         | <0.04         | <0.04               | <0.04               | <0.04               | <0.04               | <0.04               | <0.04                | <0.04               | <0.04                | <0.04                | <0.04                | <0.04                | <0.04                | <0.04         |                      |
| <0.02              | <0.02              | <0.04         | <0.04         | <0.04             | <0.04               | <0.04               | <0.04         | <0.04               | <0.04         | <0.04         | <0.04         | <0.04             | <0.04        | <0.04         | <0.04         | <0.04         | <0.04         | <0.04         | <0.04               | <0.04               | <0.04               | <0.04               | <0.04               | <0.04                | <0.04               | <0.04                | <0.04                | <0.04                | <0.04                | <0.04                | <0.04         |                      |
| <0.02              | <0.02              | <0.04         | <0.04         | <0.04             | <0.04               | <0.04               | <0.04         | <0.04               | <0.04         | <0.04         | <0.04         | <0.04             | <0.04        | <0.04         | <0.04         | <0.04         | <0.04         | <0.04         | <0.04               | <0.04               | <0.04               | <0.04               | <0.04               | <0.04                | <0.04               | <0.04                | <0.04                | <0.04                | <0.04                | <0.04                | <0.04         |                      |
| <0.02              | <0.02              | <0.04         | <0.04         | <0.04             | <0.04               | <0.04               | <0.04         | <0.04               | <0.04         | <0.04         | <0.04         | <0.04             | <0.04        | <0.04         | <0.04         | <0.04         | <0.04         | <0.04         | <0.04               | <0.04               | <0.04               | <0.04               | <0.04               | <0.04                | <0.04               | <0.04                | <0.04                | <0.04                | <0.04                | <0.04                | <0.04         |                      |
| 3.84               | 3.35               | <0.1          | 2.13          | <0.1              | <0.1                | <0.1                | <0.1          | 0.455               | <0.1          | 1.23          | <0.1          | 1.39              | 33.6         | 1.53          | <0.1          | <0.1          | 0.736         | 14.3          | 4.67                | 15.4                | 20                  | 8.46                | 6.53                | <1.0                 | <1.0                | <1.0                 | 6.1                  | 15                   | 7.3                  | 48                   | 10            |                      |
| 15.7               | 8.69               | 11.7          | 12.1          | 2.89              | 2.78                | 5.99                | 8.69          | 6.02                | 3.77          | 11.1          | 5.25          | 5.49              | 19.1         | 8.94          | 3.84          | 15.9          | 10.5          | 131           | 42.9                | 90                  | 121                 | 78.9                | 43.1                | <2.0                 | <2.0                | <1.0                 | 19                   | 36                   | 33                   | 81                   | 26            |                      |
| 118                | 23.7               | 116           | 107           | 24.2              | 19.6                | 66.5                | 92.9          | 62.9                | 30.8          | 94.9          | 43.1          | 28.5              | 11.3         | 86.3          | 37.3          | 170           | 109           | 138           | 81.5                | 222                 | 354                 | 137                 | 91.9                | 22                   | <3.0                | 150                  | 120                  | 300                  | 53                   | 70                   | 57            |                      |
| 54.1               | 3.87               | 30.4          | 29.7          | 10.2              | 6.57                | 31.3                | 45.3          | 24.2                | 12.7          | 34.9          | 7.58          | 6.67              | <0.1         | 42            | 15.6          | 81.2          | 49.4          | 27.3          | 19.2                | 57.9                | 77                  | 33                  | 20.3                | <10                  | <10                 | <1.0                 | 27                   | 82                   | <10                  | 14                   | 12            |                      |
| 192                | 39.6               | 158           | 151           | 37.3              | 29                  | 104                 | 147           | 93.6                | 47.3          | 142           | 55.9          | 42.1              | 64           | 139           | 56.7          | 287           | 170           | 311           | 148                 | 385                 | 572                 | 257                 | 162                 | 26                   | <5.0                | 150                  | 180                  | 440                  | 97                   | 220                  | 110           |                      |
| <0.02              | <0.02              | <0.04         | <0.04         | <0.04             | <0.04               | <0.04               | <0.04         | <0.04               | <0.04         | <0.04         | <0.04         | <0.04             | <0.04        | <0.04         | <0.04         | <0.04         | <0.04         | <0.04         | <0.04               | <0.04               | <0.04               | <0.04               | <0.04               | <0.04                | <0.04               | <0.04                | <0.04                | <0.04                | <0.04                | <0.04                | <0.04         |                      |
| <0.02              | <0.02              | <0.04         | <0.04         | <0.04             | <0.04               | <0.04               | <0.04         | <0.04               | <0.04         | <0.04         | <0.04         | <0.04             | <0.04        | <0.04         | <0.04         | <0.04         | <0.04         | <0.04         | <0.04               | <0.04               | <0.04               | <0.04               | <0.04               | <0.04                | <0.04               | <0.04                | <0.04                | <0.04                | <0.04                | <0.04                | <0.04         |                      |
| <0.02              | <0.02              | <0.04         | <0.04         | <0.04             | <0.04               | <0.04               | <0.04         | <0.04               | <0.04         | <0.04         | <0.04         | <0.04             | <0.04        | <0.04         | <0.04         | <0.04         | <0.04         | <0.04         | <0.04               | <0.04               | <0.04               | <0.04               | <0.04               | <0.04                | <0.04               | <0.04                | <0.04                | <0.04                | <0.04                | <0.04                | <0.04         |                      |
| <0.02              | <0.02              | <0.04         | <0.04         | <0.04             | <0.04               | <0.04               | <0.04         | <0.04               | <0.04         | <0.04         | <0.04         | <0.04             | <0.04        | <0.04         | <0.04         | <0.04         | <0.04         | <0.04         | <0.04               | <0.04               | <0.04               | <0.04               | <0.04               | <0.04                | <0.04               | <0.04                | <0.04                | <0.04                | <0.04                | <0.04                | <0.04         |                      |
| 21.2               | 5.88               | 1.39          | 0.563         | <0.1              | 0.1                 |                     |               |                     |               |               |               |                   |              |               |               |               |               |               |                     |                     |                     |                     |                     |                      |                     |                      |                      |                      |                      |                      |               |                      |

P18-669 Llanwern Phase 4G Soil Chemical Screening Results

| Surface Validation Samples |                      |                      |                      |                      |                      |                      |                      |            |                      |                      |                      |                  |                      |          |
|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------|----------------------|----------------------|----------------------|------------------|----------------------|----------|
| 24-08102                   | 24-08102             | 24-08102             | 24-09263             | 24-09263             | 24-11616             | 24-11616             | 24-11616             | 24-13424   | 24-13424             | 24-14959             | 24-14959             | 24-14959         | 23-39518             | 23-39518 |
| 1780548                    | 1780549              | 1780550              | 1784577              | 1784578              | 1793604              | 1793605              | 1793606              | 1800300    | 1800301              | 1806343              | 1806344              | 1806345          | 1737783              | 1737784  |
| 4g-SV6                     | 4g-SV19              | 4g-SV20              | 4g-SV13              | 4g-SV14              | 4G-SV10              | 4G-SV16              | 4G-SV17              | 4g-SV5     | 4g-SV11              | 4G-SV18              | 4G-SV22              | 4G-SV21          | 4G-SV2               | 4G-SV8   |
| SOIL                       | SOIL                 | SOIL                 | SOIL                 | SOIL                 | SOIL                 | SOIL                 | SOIL                 | SOIL       | SOIL                 | SOIL                 | SOIL                 | SOIL             | SOIL                 | SOIL     |
| 0.2                        | 0.2                  | 0.2                  |                      |                      |                      |                      |                      |            |                      |                      |                      |                  | 0.2                  | 0.2      |
|                            |                      |                      | 0.2                  | 0.2                  |                      |                      |                      |            |                      |                      |                      |                  |                      |          |
| 45365                      | 45365                | 45365                | 45372                | 45372                | 45394                | 45394                | 45394                | 45406      | 45406                | 45421                | 45421                | 45421            | 45257                | 45257    |
| DURHAM                     | DURHAM               | DURHAM               | DURHAM               | DURHAM               | NEW-ASB              | NEW-ASB              | NEW-ASB              | DURHAM     | DURHAM               | DURHAM               | DURHAM               | DURHAM           | COVENTRY             |          |
| -                          | -                    | -                    |                      |                      |                      |                      |                      | Chrysotile |                      |                      |                      | Chrysotile       |                      |          |
| No Asbestos Detected       | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | Detected   | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected | Detected         | No Asbestos Detected |          |
|                            |                      |                      |                      |                      |                      |                      |                      | 0.001      |                      |                      |                      | <0.001           |                      |          |
|                            |                      |                      |                      |                      |                      |                      |                      | 0.001      |                      |                      |                      | <0.001           |                      |          |
| 16                         | 12                   | 18                   | 18                   | 10                   | 4.2                  | 5.2                  | 4.3                  | 4.6        | 6.8                  | 7.1                  | 8.2                  | 15               | 21                   | 19       |
| Brown                      | Brown                | Brown                | Brown                | Brown                | Brown                | Brown                | Brown                | Brown      | Brown                | Brown                | Brown                | Brown            | Brown                | Brown    |
| Stones and Roots           | Stones and Roots     | Stones and Roots     | Stones               | Stones               | Stones               | Stones               | Stones               | Stones     | Stones               | Stones and Wood      | Stones               | Stones and Roots | Stones               | Stones   |
| Clay                       | Loam                 | Clay                 | Sand                 | Sand                 | Sand                 | Sand                 | Sand                 | Loam       | Loam                 | Loam                 | Loam                 | Loam             | Loam                 | Clay     |
| 9.6                        | 10.6                 | 9.8                  | 9.8                  | 9.8                  | 9.3                  | 10.3                 | 10.2                 | 10.8       | 10.5                 | 11.3                 | 9.8                  | 10.8             | 11.3                 | 10.8     |
| < 0.50                     | < 0.50               | 0.7                  | < 0.50               | 1.8                  | 2.5                  | 4.6                  | 1.4                  | 0.7        | 2                    | 1.1                  | 1.4                  | 1.6              | < 0.50               | < 0.50   |
| 1.1                        | 1.5                  | 2.3                  | 41                   | 5.1                  | 3.1                  | 2.1                  | 2.7                  | 3.1        | 4                    | < 0.50               | 2.2                  | 5.1              | < 0.50               | 0.86     |
| 22000                      | 21000                | 22000                | 24000                | 20000                | 21000                | 20000                | 21000                | 20000      | 21000                | 16000                | 24000                | 22000            | 23000                | 22000    |
| 41                         | 19                   | 18                   | 1.8                  | 12                   | 8.4                  | 11                   | 9.5                  | 7.3        | 12                   | 17                   | 7.8                  | 15               | 22                   | 15       |
| 2                          | 0.98                 | 1.9                  | < 0.10               | 0.22                 | 0.2                  | 0.31                 | 0.27                 | 0.18       | < 0.10               | 0.53                 | 0.37                 | 0.57             | 0.91                 | 0.65     |
| 300                        | 600                  | 140                  | 6.7                  | 200                  | 72                   | 400                  | 100                  | 250        | 220                  | 510                  | 130                  | 300              | 340                  | 310      |
| 18000                      | 18000                | 8700                 | 200                  | 8900                 | 4400                 | 23000                | 7600                 | 14000      | 10000                | 20000                | 8000                 | 17000            | 15000                | 13000    |
| 66                         | 56                   | 50                   | 6.6                  | 27                   | 23                   | 40                   | 37                   | 32         | 29                   | 48                   | 25                   | 42               | 45                   | 30       |
| 0.29                       | 0.38                 | 0.29                 | < 0.05               | 0.12                 | 0.17                 | 0.37                 | 0.15                 | 0.09       | 0.08                 | 0.18                 | 0.12                 | 0.2              | 0.21                 | 0.19     |
| 49                         | 38                   | 48                   | 4.8                  | 28                   | 20                   | 29                   | 24                   | 29         | 40                   | 38                   | 26                   | 36               | 38                   | 29       |
| 270                        | 160                  | 110                  | 7                    | 52                   | 58                   | 60                   | 60                   | 43         | 37                   | 70                   | 54                   | 83               | 150                  | 94       |
| 2.3                        | 1.9                  | 1.9                  | < 0.25               | 1.3                  | 1.4                  | 1.6                  | 1.2                  | 1.2        | 1.4                  | 1.7                  | 0.86                 | 2.4              | 2.6                  | 2.6      |
| 370                        | 430                  | 270                  | 12                   | 170                  | 79                   | 330                  | 140                  | 240        | 200                  | 300                  | 180                  | 290              | 340                  | 290      |
| 740                        | 430                  | 300                  | 38                   | 140                  | 150                  | 150                  | 150                  | 120        | 120                  | 280                  | 150                  | 200              | 340                  | 250      |
| 5.7                        | 3.8                  | 18                   | 7.6                  | 4                    | 12                   | 20                   | 22                   | 5.2        | 3.8                  | 5.8                  | 4.6                  | 17               | 5                    | 13       |
| < 0.05                     | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05     | < 0.05               | < 0.05               | < 0.05               | < 0.05           | < 0.05               | < 0.05   |
| < 0.10                     | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10     | < 0.10               | < 0.10               | < 0.10               | < 0.10           | < 0.10               | < 0.10   |
| < 0.05                     | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05     | < 0.05               | < 0.05               | < 0.05               | < 0.05           | < 0.05               | < 0.05   |
| 4.4                        | 7                    | 23                   | 5                    | 4.5                  | 6.4                  | 4.8                  | 3.9                  | 8.2        | 6.4                  | 8.8                  | 7.8                  | 5.5              | < 2.0                | < 2.0    |
| 7.5                        | 8                    | 42                   | 19                   | 9                    | 11                   | 6.1                  | 2.9                  | 48         | 14                   | 11                   | 11                   | 14               | < 1.0                | 1.5      |
| 19                         | 19                   | 51                   | 29                   | 19                   | 13                   | 10                   | 5.8                  | 210        | 59                   | 19                   | 13                   | 55               | < 2.0                | 13       |
| 68                         | 78                   | 120                  | 34                   | 37                   | 21                   | 18                   | 5.5                  | 210        | 98                   | 1000                 | 51                   | 72               | < 3.0                | 44       |
| 19                         | 30                   | 38                   | 11                   | < 10                 | < 10                 | < 10                 | < 10                 | 60         | 24                   | 270                  | 19                   | 13               | < 10                 | 18       |
| 120                        | 140                  | 270                  | 99                   | 70                   | 52                   | 39                   | 18                   | 530        | 200                  | 1300                 | 100                  | 160              | < 10                 | 77       |
| < 0.05                     | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05     | < 0.05               | < 0.05               | < 0.05               | < 0.05           | < 0.05               | < 0.05   |
| < 0.05                     | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05     | < 0.05               | < 0.05               | < 0.05               | < 0.05           | < 0.05               | < 0.05   |
| < 0.05                     | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05               | < 0.05     | < 0.05               | < 0.05               | < 0.05               | < 0.05           | < 0.05               | < 0.05   |
| < 1.0                      | 1.1                  | 8                    | < 1.0                | < 1.0                | < 1.0                | 1.9                  | < 1.0                | 5.9        | 4.3                  | < 1.0                | < 1.0                | 4.8              | < 1.0                | < 1.0    |
| < 1.0                      | < 1.0                | 33                   | 3.8                  | < 1.0                | < 1.0                | 1.8                  | 1                    | 23         | 5.9                  | < 1.0                | < 1.0                | 1.2              | < 1.0                | < 1.0    |
| 5                          | 8.2                  | 63                   | 19                   | 9.7                  | 10                   | 12                   | 14                   | 110        | 29                   | 14                   | 13                   | 40               | 4.3                  | 13       |
| 23                         | 28                   | 110                  | 57                   | 30                   | 15                   | 21                   | 15                   | 130        | 85                   | 17                   | 18                   | 110              | 3.5                  | 52       |
| 6.1                        | 31                   | 110                  | 16                   | 6.9                  | < 1.0                | 4.1                  | < 1.0                | 25         | 13                   | 4                    | 9.7                  | 42               | < 1.0                | 3.3      |
| 29                         | 37                   | 210                  | 95                   | 47                   | 27                   | 41                   | 31                   | 290        | 140                  | 35                   | 42                   | 200              | < 10                 | 68       |
| 35                         | 69                   | 320                  | 190                  | 120                  | 79                   | 79                   | 49                   | 830        | 340                  | 1400                 | 140                  | 360              | < 10                 | 140      |
| < 1.0                      | < 1.0                | < 1.0                | < 1.0                | < 1.0                | 2.2                  | 2.4                  | < 1.0                | 3.1        | 3.9                  | < 1.0                | < 1.0                | < 1.0            | < 1.0                | < 1.0    |
| < 1.0                      | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | 1.3                  | < 1.0      | 1.4                  | 2.3                  | < 1.0                | < 1.0            | < 1.0                | < 1.0    |
| < 1.0                      | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0      | < 1.0                | < 1.0                | < 1.0                | < 1.0            | < 1.0                | < 1.0    |
| < 1.0                      | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0      | < 1.0                | < 1.0                | < 1.0                | < 1.0            | < 1.0                | < 1.0    |
| < 1.0                      | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0      | < 1.0                | < 1.0                | < 1.0                | < 1.0            | < 1.0                | < 1.0    |
| < 1.0                      | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0                | < 1.0      | < 1.0                | < 1.0                | < 1.0                | < 1.0            | < 1.0                | < 1.0    |
| 0.65                       | 0.4                  | 1.7                  | 1.2                  | 0.68                 | 3.5                  | 5.9                  | 1.7                  | 1.6        | 1.6                  | 0.52                 | 0.82                 | 3.7              | 0.49                 | 2.6      |
| 0.28                       | 0.13                 | 0.52                 | 0.16                 | < 0.10               | 0.73                 | 0.68                 | 0.29                 | < 0.10     | < 0.10               | < 0.10               | 0.13                 | 0.33             | 0.12                 | 0.55     |
| 0.4                        | < 0.10               | 0.43                 | < 0.10               | < 0.10               | 0.17                 | 0.23                 | < 0.10               | < 0.10     | < 0.10               | < 0.10               | 0.22                 | < 0.10           | 0.22                 | 0.22     |
| 0.73                       | < 0.10               | 0.84                 | 0.22                 | < 0.10               | 1                    | 0.8                  | 0.25                 | < 0.10     | < 0.10               | < 0.10               | 0.14                 | 0.4              | < 0.10               | 0.56     |
| 3.9                        | 0.68                 | 4.2                  | 1.6                  | 0.7                  | 8.7                  | 9.4                  | 2.2                  | 2          | 1.2                  | 0.73                 | 1.3                  | 3.2              | 0.8                  | 3.8      |
| 1.3                        | 0.24                 | 1.1                  | 0.37                 | < 0.10               | 1.8                  | 1.8                  | 0.53                 | 0.51       | 0.33                 | 0.18                 | 0.34                 | 0.87             | 0.23                 | 1        |
| 6.5                        | 1.3                  | 6                    | 2.7                  | 1.1                  | 11                   | 14                   | 4.1                  | 3.3        | 2                    | 1.2                  | 2.8                  | 5.7              | 1.3                  | 5.4      |
| 4.4                        | 0.96                 | 4.1                  | 2                    | 0.93                 | 7.4                  | 9.4                  | 2.9                  | 2.5        | 1.7                  | 1.1                  | 2.6                  | 4.3              | 1                    | 4        |
| 2.9                        | 0.61                 | 2.4                  | 1.5                  | 0.6                  | 4                    | 5.2                  | 1.9                  | 1.5        | 1.3                  | 0.81                 | 2.2                  | 3                | 0.67                 | 2.4      |
| 2.4                        | 0.66                 | 2.1                  | 1.3                  | 0.63                 | 4.4                  | 5.6                  | 2                    | 1.4        | 1.3                  | 0.95                 | 2.3                  | 3.3              | 0.7                  | 2.5      |
| 4.1                        | 0.91                 | 3.5                  | 2.3                  | < 0.10               | 5.3                  | 7                    | 2.5                  | 2.5        | 2.2                  | 1.5                  | 4.6                  | 4.5              | 1.1                  | 3.8      |
| 1.2                        | 0.31                 | 1.2                  | 0.75                 | < 0.10               | 1.7                  | 2.4                  | 0.94                 | 0.82       | 0.8                  | 0.58                 | 1.5                  | 1.5              | 0.35                 | 1.4      |
| 2.5                        | 0.6                  | 2.3                  | 1.7                  | < 0.10               | 3.8                  | 4.6                  | 1.7                  | 1.8        | 1.6                  | 1                    | 3.5                  | 3.3              | 0.75                 | 2.7      |
| 1.8                        | 0.52                 | 1.7                  | 1.2                  | < 0.10               | 2.7                  | 3.5                  | 1.3                  | 1.5        | 1.1                  | 0.79                 | 2.6                  | 2.6              | 0.49                 | 2.1      |
| 0.52                       | < 0.10               | 0.41                 | < 0.10               | < 0.10               | 0.61                 | 0.76                 | 0.27                 | 0.32       | 0.27                 | < 0.10               | 0.51                 | 0.54             | < 0.10               | 0.42     |
| 1.8                        | 0.42                 | 1.7                  | 0.97                 | < 0.10               | 2.8                  | 3.4                  | 1.3                  | 1.3        | 1.2                  | 0.81                 | 2.5                  | 2.4              | 0.55                 | 1.9      |
| 35                         | 7.7                  | 34                   | 18                   | 4.6                  | 60                   | 75                   | 24                   | 21         | 17                   | 10                   | 28                   | 40               | 8.6                  | 35       |
| < 0.020                    | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020    | < 0.020              | < 0.020              | < 0.020              | < 0.020          | < 0.020              | < 0.020  |
| < 0.020                    | < 0.020              | < 0.020              | < 0.020              | < 0.020              | 0.073                | < 0.020              | < 0.020              | < 0.020    | < 0.020              | < 0.020              | < 0.020              | < 0.020          | < 0.020              | < 0.020  |
| < 0.020                    | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020    | < 0.020              | < 0.020              | < 0.020              | < 0.020          | < 0.020              | < 0.020  |
| < 0.020                    | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020    | < 0.020              | < 0.020              | < 0.020              | < 0.020          | < 0.020              | < 0.020  |
| < 0.020                    | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020    | < 0.020              | < 0.020              | < 0.020              | < 0.020          | < 0.020              | < 0.020  |
| < 0.020                    | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020    | < 0.020              | < 0.020              | < 0.020              | < 0.020          | < 0.020              | < 0.020  |
| < 0.020                    | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020    | < 0.020              | < 0.020              | < 0.020              | < 0.020          | < 0.020              | < 0.020  |
| < 0.020                    | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020    | < 0.020              | < 0.020              | < 0.020              | < 0.020          | < 0.020              | < 0.020  |
| < 0.020                    | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020              | < 0.020    | < 0.020              | < 0.020              | < 0.020              | < 0.020          | < 0.020              | < 0.020  |
| < 0.10                     | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10               | < 0.10     | < 0.10               | < 0.10               | < 0.10               | < 0.10           | < 0.10               | < 0.10   |

| Determinand | Units | SRV | N Detects | Mean | Max | 95%ile |
|-------------|-------|-----|-----------|------|-----|--------|
|-------------|-------|-----|-----------|------|-----|--------|

For all samples

| Determinand                  | Units | SRV      | N Detects | Mean   | Max    | 95%ile |
|------------------------------|-------|----------|-----------|--------|--------|--------|
| Cyanide (Total)              | mg/kg | 2.02     | 41        | 1.66   | 20.9   | 6.32   |
| Ammoniacal Nitrogen          | mg/kg | 154      | 42        | 11.6   | 117    | 18.0   |
| Iron (Total)                 | mg/kg | 305000   | 188       | 105978 | 352000 | 240150 |
| Arsenic                      | mg/kg | 2533     | 170       | 10.6   | 41.00  | 19.0   |
| Cadmium                      | mg/kg | 73       | 106       | 0.66   | 4.82   | 2.51   |
| Chromium                     | mg/kg | 9431     | 176       | 174    | 1170   | 679    |
| Manganese                    | mg/kg | 33300    | 189       | 11217  | 49400  | 33120  |
| Copper                       | mg/kg | 451      | 180       | 27.9   | 286    | 60.8   |
| Mercury                      | mg/kg | 132      | 38        | 0.63   | 2.17   | 1.40   |
| Nickel                       | mg/kg | 11500    | 189       | 25.40  | 496    | 47.72  |
| Lead                         | mg/kg | 15700    | 187       | 64.5   | 791    | 166    |
| Selenium                     | mg/kg | 702      | 129       | 6.48   | 24.3   | 16.9   |
| Vanadium                     | mg/kg | 1606     | 189       | 216    | 1890   | 572    |
| Zinc                         | mg/kg | 138000   | 189       | 237    | 3120   | 669    |
| Organic Matter               | %     |          | 187       | 11.9   | 93.40  | 37.2   |
| Aliphatic TPH >C5-C6         | mg/kg | 73       | 4         | 0.09   | 1.00   | 1.00   |
| Aliphatic TPH >C6-C8         | mg/kg | 359      | 27        | 0.12   | 3.32   | 1.00   |
| Aliphatic TPH >C8-C10        | mg/kg | 2841     | 26        | 0.36   | 46.7   | 1.00   |
| Aliphatic TPH >C10-C12       | mg/kg | 22500    | 46        | 1.52   | 112    | 6.40   |
| Aliphatic TPH >C12-C16       | mg/kg | 450000   | 148       | 7.16   | 177    | 34.0   |
| Aliphatic TPH >C16-C21       | mg/kg | 56600000 | 168       | 22.4   | 210    | 88.8   |
| Aliphatic TPH >C21-C35       | mg/kg | 56600000 | 175       | 88.3   | 1000   | 323    |
| Aliphatic TPH >C35-C44       | mg/kg | 56600000 | 164       | 32.1   | 417    | 91.5   |
| Total Aliphatic Hydrocarbons | mg/kg |          | 175       | 187    | 4410   | 546    |
| Aromatic TPH >C5-C7          | mg/kg | 8.51     | 1         | 0.09   | 1.00   | 1.00   |
| Aromatic TPH >C7-C8          | mg/kg | 177      | 4         | 0.09   | 1.00   | 1.00   |
| Aromatic TPH >C8-C10         | mg/kg | 144      | 17        | 0.27   | 31.1   | 1.00   |
| Aromatic TPH >C10-C12        | mg/kg | 227      | 32        | 1.15   | 112    | 2.14   |
| Aromatic TPH >C12-C16        | mg/kg | 451      | 151       | 6.73   | 177    | 22.8   |
| Aromatic TPH >C16-C21        | mg/kg | 1424     | 180       | 31.0   | 411    | 136    |
| Aromatic TPH >C21-C35        | mg/kg | 11300    | 181       | 116    | 1120   | 456    |
| Aromatic TPH >C35-C44        | mg/kg | 11300    | 168       | 47.4   | 597    | 156    |
| Total Aromatic Hydrocarbons  | mg/kg |          | 180       | 199    | 1850   | 821    |
| Total Petroleum Hydrocarbons | mg/kg |          | 180       | 382    | 5850   | 1412   |
| Benzene                      | µg/kg | 3800     | 6         | 99.6   | 1800   | 180    |
| Toluene                      | µg/kg | 128000   | 6         | 78.0   | 1400   | 140    |
| Ethylbenzene                 | µg/kg | 80000    | 1         | 44.7   | 800    | 80.0   |
| m & p-Xylene                 | µg/kg | 74000    | 1         | 111    | 2000   | 200    |
| o-Xylene                     | µg/kg | 74000    | 1         | 111    | 2000   | 200    |
| Methyl Tert-Butyl Ether      | µg/kg |          | 4         | 117    | 2600   | 200    |
| Naphthalene                  | mg/kg | 27       | 151       | 0.99   | 38.3   | 3.24   |
| Acenaphthylene               | mg/kg | 16.7     | 132       | 0.72   | 51.2   | 0.95   |
| Acenaphthene                 | mg/kg | 30       | 122       | 0.25   | 16.5   | 0.40   |
| Fluorene                     | mg/kg | 27       | 141       | 1.13   | 135    | 1.07   |
| Phenanthrene                 | mg/kg | 27       | 180       | 4.83   | 379    | 9.12   |
| Anthracene                   | mg/kg | 34       | 167       | 1.62   | 155    | 2.33   |
| Fluoranthene                 | mg/kg | 6.64     | 185       | 7.26   | 374    | 12.8   |
| Pyrene                       | mg/kg | 76       | 185       | 5.48   | 302    | 9.12   |
| Benzo[a]anthracene           | mg/kg | 607      | 181       | 3.56   | 206    | 5.89   |
| Chrysene                     | mg/kg | 621      | 181       | 3.04   | 166    | 6.13   |
| Benzo[b]fluoranthene         | mg/kg | 3.42     | 179       | 4.67   | 212    | 9.18   |
| Benzo[k]fluoranthene         | mg/kg | 5.05     | 177       | 1.62   | 81.5   | 3.35   |
| Benzo[a]pyrene               | mg/kg | 34       | 179       | 3.20   | 147    | 6.27   |
| Indeno[1,2,3-c,d]Pyrene      | mg/kg | 25       | 176       | 2.23   | 80.5   | 3.98   |
| Dibenzo[a,h]Anthracene       | mg/kg | 838      | 142       | 0.55   | 24.1   | 1.10   |
| Benzo[g,h,i]perylene         | mg/kg | 13       | 175       | 2.15   | 88.3   | 4.12   |
| Total Of 16 PAH's            | mg/kg |          | 175       | 44.2   | 2460   | 74.9   |
| Resorcinol                   | mg/kg |          | 0         | 0.02   | 0.02   | 0.02   |
| Phenol                       | mg/kg | 3.05     | 15        | 0.01   | 0.17   | 0.02   |
| Cresols                      | mg/kg |          | 7         | 0.01   | 0.28   | 0.02   |
| Xylenols                     | mg/kg |          | 3         | 0.02   | 0.06   | 0.02   |
| 1-Naphthol                   | mg/kg |          | 0         | 0.02   | 0.02   | 0.02   |
| Trimethylphenols             | mg/kg |          | 0         | 0.02   | 0.02   | 0.02   |
| Total Phenols                | mg/kg |          | 5         | 0.05   | 0.45   | 0.02   |

UCL<sub>mean</sub>

| UCL <sub>mean</sub> |
|---------------------|
| 1.65                |
| 8.20                |
| 22084.54            |
| 18.69               |
| 0.97                |
| 345.86              |
| 16804.56            |
| 44.84               |
| 0.25                |
| 37.36               |
| 128.78              |
| 2.19                |
| 316.79              |
| 359.53              |
| 11.67               |
| 0.05                |
| 0.10                |
| 0.05                |
| 8.33                |
| 21.14               |
| 57.35               |
| 222.52              |
| 61.50               |
| 343.11              |
| 0.05                |
| 0.05                |
| 0.05                |
| 3.00                |
| 10.05               |
| 35.36               |
| 67.61               |
| 28.95               |
| 121.81              |
| 385.35              |
| 1.76                |
| 1.24                |
| #NUM!               |
| #NUM!               |
| #NUM!               |
| #NUM!               |
| 2.22                |
| 0.36                |
| 0.32                |
| 0.52                |
| 3.86                |
| 0.89                |
| 5.71                |
| 4.09                |
| 2.42                |
| 2.47                |
| 3.58                |
| 1.19                |
| 2.48                |
| 1.86                |
| 0.40                |
| 1.79                |
| 33.65               |
| 0.02                |
| 0.03                |
| 0.02                |
| 0.02                |
| 0.02                |
| 0.02                |
| 0.10                |

| Client: Rodgers Leask<br>Environmental | Job No.:            |      |          |       |                                                     |
|----------------------------------------|---------------------|------|----------|-------|-----------------------------------------------------|
|                                        | Sample ID.:         |      |          |       | Residential<br>Soil Re-use<br>Values (Table<br>2.1) |
|                                        | Client Sample Ref.: |      |          |       |                                                     |
|                                        | Sample Type:        |      |          |       |                                                     |
|                                        | Top Depth (m):      |      |          |       |                                                     |
|                                        | Bottom Depth (m):   |      |          |       |                                                     |
|                                        | Date Sampled:       |      |          |       |                                                     |
|                                        | Asbestos Lab:       |      |          |       |                                                     |
| Determinand                            | Accred.             | SOP  | Units    | LOD   |                                                     |
| ACM Type                               | U                   | 2192 |          | N/A   |                                                     |
| Asbestos Identification                | U                   | 2192 |          | N/A   |                                                     |
| Asbestos by Gravimetry                 | U                   | 2192 | %        | 0.001 |                                                     |
| Total Asbestos                         | U                   | 2192 | %        | 0.001 |                                                     |
| Moisture                               | N                   | 2030 | %        | 0.02  |                                                     |
| Soil Colour                            | N                   | 2040 |          | N/A   |                                                     |
| Other Material                         | N                   | 2040 |          | N/A   |                                                     |
| Soil Texture                           | N                   | 2040 |          | N/A   |                                                     |
| pH at 20C                              | M                   | 2010 | pH units | 4     |                                                     |
| 1-Napththol                            | N                   | 2920 | mg/kg    | 0.02  |                                                     |
| Acenaphthene                           | M                   | 2800 | mg/kg    | 0.1   | 30                                                  |
| Acenaphthylene                         | N                   | 2800 | mg/kg    | 0.1   | 16.7                                                |
| Aliphatic TPH >C10-C12                 | M                   | 2680 | mg/kg    | 1     | 2.25E+04                                            |
| Aliphatic TPH >C12-C16                 | M                   | 2680 | mg/kg    | 1     | 4.50E+05                                            |
| Aliphatic TPH >C16-C21                 | M                   | 2680 | mg/kg    | 1     | 5.66E+07                                            |
| Aliphatic TPH >C21-C35                 | M                   | 2680 | mg/kg    | 1     | 5.66E+07                                            |
| Aliphatic TPH >C35-C44                 | N                   | 2680 | mg/kg    | 1     | 5.66E+07                                            |
| Aliphatic TPH >C5-C6                   | M                   | 2680 | mg/kg    | 1     | 73                                                  |
| Aliphatic TPH >C6-C8                   | N                   | 2680 | mg/kg    | 1     | 359                                                 |
| Aliphatic TPH >C8-C10                  | M                   | 2680 | mg/kg    | 1     | 2841                                                |
| Ammoniacal Nitrogen                    | M                   | 2425 | mg/kg    | 0.5   | 154                                                 |
| Anthracene                             | M                   | 2800 | mg/kg    | 0.1   | 34                                                  |
| Aromatic TPH >C10-C12                  | M                   | 2680 | mg/kg    | 1     | 227                                                 |
| Aromatic TPH >C12-C16                  | M                   | 2680 | mg/kg    | 1     | 451                                                 |
| Aromatic TPH >C16-C21                  | N                   | 2680 | mg/kg    | 1     | 1424                                                |
| Aromatic TPH >C21-C35                  | M                   | 2680 | mg/kg    | 1     | 1.13E+04                                            |
| Aromatic TPH >C35-C44                  | N                   | 2680 | mg/kg    | 1     | 1.13E+04                                            |
| Aromatic TPH >C5-C7                    | M                   | 2680 | mg/kg    | 1     | 8.51                                                |
| Aromatic TPH >C7-C8                    | M                   | 2680 | mg/kg    | 1     | 177                                                 |
| Aromatic TPH >C8-C10                   | M                   | 2680 | mg/kg    | 1     | 144                                                 |
| Arsenic                                | M                   | 2450 | mg/kg    | 1     | 2533                                                |
| Benzene                                | M                   | 2760 | µg/kg    | 1     | 3800.00                                             |
| Benzo[a]anthracene                     | M                   | 2800 | mg/kg    | 0.1   | 607                                                 |
| Benzo[a]pyrene                         | M                   | 2800 | mg/kg    | 0.1   | 34                                                  |
| Benzo[b]fluoranthene                   | M                   | 2800 | mg/kg    | 0.1   | 3.42                                                |
| Benzo[g,h,i]perylene                   | M                   | 2800 | mg/kg    | 0.1   | 13                                                  |
| Benzo[k]fluoranthene                   | M                   | 2800 | mg/kg    | 0.1   | 5.05                                                |
| Cadmium                                | M                   | 2450 | mg/kg    | 0.1   | 73                                                  |

|                              |   |      |       |      |          |
|------------------------------|---|------|-------|------|----------|
| Chromium                     | M | 2450 | mg/kg | 1    | 9431     |
| Chrysene                     | M | 2800 | mg/kg | 0.1  | 621      |
| Copper                       | M | 2450 | mg/kg | 0.5  | 451      |
| Cresols                      | M | 2920 | mg/kg | 0.02 |          |
| Cyanide (Total)              | M | 2300 | mg/kg | 0.5  | 2.02     |
| Dibenz(a,h)Anthracene        | N | 2800 | mg/kg | 0.1  | 838      |
| Ethylbenzene                 | M | 2760 | µg/kg | 1    | 8.00E+04 |
| Fluoranthene                 | M | 2800 | mg/kg | 0.1  | 6.64     |
| Fluorene                     | M | 2800 | mg/kg | 0.1  | 27       |
| Indeno(1,2,3-c,d)Pyrene      | M | 2800 | mg/kg | 0.1  | 25       |
| Iron (Total)                 | N | 2430 | mg/kg | 100  | 3.05E+05 |
| Lead                         | M | 2450 | mg/kg | 0.5  | 1.57E+04 |
| m & p-Xylene                 | M | 2760 | µg/kg | 1    | 74000    |
| Manganese                    | M | 2450 | mg/kg | 5    | 3.33E+04 |
| Mercury                      | M | 2450 | mg/kg | 0.1  | 132      |
| Methyl Tert-Butyl Ether      | M | 2760 | µg/kg | 1    |          |
| Naphthalene                  | M | 2800 | mg/kg | 0.1  | 27       |
| Nickel                       | M | 2450 | mg/kg | 0.5  | 1.15E+04 |
| Organic Matter               | M | 2625 | %     | 0.4  |          |
| o-Xylene                     | M | 2760 | µg/kg | 1    | 74000    |
| Phenanthrene                 | M | 2800 | mg/kg | 0.1  | 27       |
| Phenol                       | M | 2920 | mg/kg | 0.02 | 3.05     |
| Pyrene                       | M | 2800 | mg/kg | 0.1  | 76       |
| Resorcinol                   | M | 2920 | mg/kg | 0.02 |          |
| Selenium                     | M | 2450 | mg/kg | 0.2  | 702      |
| Toluene                      | M | 2760 | µg/kg | 1    | 1.28E+05 |
| Total Aliphatic Hydrocarbons | M | 2680 | mg/kg | 5    |          |
| Total Aromatic Hydrocarbons  | M | 2680 | mg/kg | 5    |          |
| Total Of 16 PAH's            | N | 2800 | mg/kg | 2    |          |
| Total Petroleum Hydrocarbons | N | 2680 | mg/kg | 10   |          |
| Total Phenols                | M | 2920 | mg/kg | 0.1  |          |
| Trimethylphenols             | M | 2920 | mg/kg | 0.02 |          |
| Vanadium                     | U | 2450 | mg/kg | 5    | 1606     |
| Xylenols                     | M | 2920 | mg/kg | 0.02 |          |
| Zinc                         | M | 2450 | mg/kg | 0.5  | 1.38E+05 |

Backfill zone data taken from <...Projects - Documents\31040 Llanwern Residential  
Formulae and inputs checked jwg, 13/08/25

Selected analyses of verification samples that are

|                             |                                                          |        |         |
|-----------------------------|----------------------------------------------------------|--------|---------|
| Determinand                 | benzo (b) Fluora benzo (b) Fluora benzo (b) Fluoranthene |        |         |
| SRV                         | 3.42                                                     | 3.42   | 3.42    |
| Units                       | mg/kg                                                    | mg/kg  | mg/kg   |
| Sample point                | 4G-SV6                                                   | 4G-SV8 | 4G-SV10 |
| Concentration (mg/kg)       | 4.1                                                      | 3.8    | 5.3     |
| Thickness (for SV) (m)      | 0.1                                                      | 0.1    | 0.1     |
| Backfill zone               | S24                                                      | W25    | AA25    |
| Backfill zone thickness (m) | 1.58                                                     | 1.19   | 1.10    |
| Fill average                | 0.68                                                     | 7.61   | 9.80    |
| UCL backfill                | 0.41                                                     | 15.89  | 4.90    |
| UCLmean backfill            | 1.09                                                     | 23.49  | 14.71   |
| Weighted average combined   | 0.86                                                     | 7.37   | 9.52    |
| Weighted UCL combined       | 0.41                                                     | 6.62   | 0.58    |
| Weighted UCL mean combined  | 1.27                                                     | 13.99  | 10.10   |





above the SRV

|                      |         |         |         |  |
|----------------------|---------|---------|---------|--|
|                      |         |         |         |  |
| benzo(b)Fluoranthene |         |         |         |  |
| 3.42                 |         |         |         |  |
| benzo(b)Fluoranthene |         |         |         |  |
| 3.42                 |         |         |         |  |
| benzo(b)Fluoranthene |         |         |         |  |
| 3.42                 |         |         |         |  |
| benzo(b)Fluoranthene |         |         |         |  |
| 3.42                 |         |         |         |  |
| mg/kg                | mg/kg   | mg/kg   | mg/kg   |  |
| 4G-SV16              | 4G-SV20 | 4G-SV21 | 4G-SV22 |  |
| 7                    | 3.5     | 4.5     | 4.6     |  |
| 0.1                  |         |         |         |  |
| AA26                 | Y28     | AC28    | AE28    |  |
| 1.12                 | 1.20    | 1.49    | 0.83    |  |
| 2.99                 | 1.05    | 2.10    | 0.51    |  |
| 4.24                 | 1.11    | 3.92    | 0.26    |  |
| 7.22                 | 2.17    | 6.02    | 0.77    |  |
| 3.24                 | 1.21    | 2.23    | 0.83    |  |
| 1.84                 | 0.56    | 1.77    | 0.66    |  |
| 5.07                 | 1.77    | 4.00    | 1.49    |  |

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| Layer        |
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| 4            |
| 3            |
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| Average Grid |
| St           |
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| Layer        |
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| 3            |
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| 1            |
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| Average Grid |
| St           |
| Mean +       |
| Mean +       |

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| Layer |
| 5     |
| 4     |
| 3     |

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| 2            |
| 1            |
|              |
| Average Grid |
| Std          |
| Mean +       |
| Mean -       |

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| Layer        |
| 5            |
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| 2            |
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| Average Grid |
| Std          |
| Mean +       |
| Mean -       |

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| 1            |
|              |
| Average Grid |
| Std          |
| Mean +       |
| Mean -       |

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| Layer        |
| 6            |
| 5            |
| 4            |
| 3            |
| 2            |
| 1            |
|              |
| Average Grid |
| Std          |
| Mean +       |
| Mean +       |

|              |
|--------------|
|              |
| Layer        |
| 4            |
| 3            |
| 2            |
| 1            |
|              |
| Average Grid |
| Std          |
| Mean +       |
| Mean +       |

| Grid Square: S24          |              |        |   |                               |                                    |                                            |
|---------------------------|--------------|--------|---|-------------------------------|------------------------------------|--------------------------------------------|
| Thickness                 | Level (mAOD) | Source |   | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b)fluoranthene Conc. (mg/kg) |
| –                         | –            | –      | – | –                             | –                                  | –                                          |
| 300                       | 5.90         | T23    |   | <1                            | 0.43                               | 0.51                                       |
| 300                       | 5.58         | T23    |   | <1                            | 0.43                               | 0.51                                       |
| 300                       | 5.27         | T23    |   | <1                            | 0.43                               | 0.51                                       |
| 300                       | 4.95         | T22    |   | <1                            | 1.47                               | 1.55                                       |
| 300                       | 4.63         | T23    |   | <1                            | 0.43                               | 0.51                                       |
| 300                       | 4.32         | T23    |   | <1                            | 0.43                               | 0.51                                       |
|                           |              |        |   |                               |                                    |                                            |
| Grid Square Concentration |              |        |   | 1.00                          | 0.60                               | 0.68                                       |
| Student 95%UCL            |              |        |   | #NUM!                         | 0.41                               | 0.41                                       |
| - Student 95%UCL          |              |        |   | #NUM!                         | 1.01                               | 1.09                                       |
| + Normal 95%UCL           |              |        |   | #NUM!                         | 0.94                               | 1.02                                       |

| Grid Square: W25          |              |        |  |                               |                                    |                                            |
|---------------------------|--------------|--------|--|-------------------------------|------------------------------------|--------------------------------------------|
| Thickness                 | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b)fluoranthene Conc. (mg/kg) |
| 300                       | 6.40         | W140   |  | <1                            | 0.90                               | 0.50                                       |
| 300                       | 6.11         | W123   |  | <1                            | 1.04                               | 1.10                                       |
| 300                       | 5.81         | W123   |  | <1                            | 1.04                               | 1.10                                       |
| 300                       | 5.51         | W208   |  | 0.83                          | 3.48                               | 2.15                                       |
| 300                       | 5.22         | W60    |  | 3.72                          | 39.82                              | 33.17                                      |
|                           |              |        |  |                               |                                    |                                            |
| Grid Square Concentration |              |        |  | 1.51                          | 9.26                               | 7.61                                       |
| Student 95%UCL            |              |        |  | 1.37                          | 19.01                              | 15.89                                      |
| - Student 95%UCL          |              |        |  | 2.88                          | 28.27                              | 23.49                                      |
| + Normal 95%UCL           |              |        |  | 2.48                          | 22.68                              | 18.82                                      |

| Grid Square: AA25 |              |        |  |                               |                                    |                                            |
|-------------------|--------------|--------|--|-------------------------------|------------------------------------|--------------------------------------------|
| Thickness         | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b)fluoranthene Conc. (mg/kg) |
| 300               | 6.73         | AA25   |  | 17.37                         | 11.67                              | 9.80                                       |
| 300               | 6.45         | AA25   |  | 17.37                         | 11.67                              | 9.80                                       |
| 300               | 6.18         | AA25   |  | 17.37                         | 11.67                              | 9.80                                       |

|                               |  |  |       |       |       |
|-------------------------------|--|--|-------|-------|-------|
| Standard Square Concentration |  |  | 17.37 | 11.67 | 9.80  |
| Student 95%UCL                |  |  | #NUM! | #NUM! | #NUM! |
| - Student 95%UCL              |  |  | #NUM! | #NUM! | #NUM! |
| + Normal 95%UCL               |  |  | #NUM! | #NUM! | #NUM! |

## Grid Square: AA26

| Thickness              | Level (mAOD) | Source      |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b)fluoranthene Conc. (mg/kg) |
|------------------------|--------------|-------------|--|-------------------------------|------------------------------------|--------------------------------------------|
| 300                    | 6.72         | AA26        |  | <1                            | 1.28                               | 1.18                                       |
| 300                    | 6.44         | AA25        |  | 17.37                         | 11.67                              | 9.80                                       |
| 300                    | 6.16         | AA26        |  | <1                            | 1.28                               | 1.18                                       |
| 300                    | 5.88         | AA26        |  | <1                            | 1.28                               | 1.18                                       |
| 300                    | 5.60         | A24 (4E-E2) |  | 1.06                          | 2.17                               | 1.60                                       |
|                        |              |             |  |                               |                                    |                                            |
| d Square Concentration |              |             |  | 4.28                          | 3.54                               | 2.99                                       |
| Student 95%UCL         |              |             |  | 8.12                          | 5.07                               | 4.24                                       |
| - Student 95%UCL       |              |             |  | 12.41                         | 8.61                               | 7.22                                       |
| + Normal 95%UCL        |              |             |  | 10.02                         | 7.12                               | 5.98                                       |

## Grid Square: Y28

| Thickness              | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b)fluoranthene Conc. (mg/kg) |
|------------------------|--------------|--------|--|-------------------------------|------------------------------------|--------------------------------------------|
| 300                    | 6.50         | Y28    |  | <1                            | 0.53                               | 0.32                                       |
| 300                    | 6.20         | W208   |  | 0.825                         | 3.48                               | 2.15                                       |
| 300                    | 5.90         | Y28    |  | <1                            | 0.53                               | 0.32                                       |
| 300                    | 5.60         | W208   |  | 0.825                         | 3.48                               | 2.15                                       |
| 300                    | 5.30         | Y28    |  | <1                            | 0.53                               | 0.32                                       |
|                        |              |        |  |                               |                                    |                                            |
| d Square Concentration |              |        |  | 0.93                          | 1.71                               | 1.05                                       |
| Student 95%UCL         |              |        |  | 0.11                          | 1.79                               | 1.11                                       |
| - Student 95%UCL       |              |        |  | 1.04                          | 3.51                               | 2.17                                       |
| + Normal 95%UCL        |              |        |  | 1.01                          | 2.98                               | 1.84                                       |

## Grid Square: AC28

| Thickness              | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b) fluoranthene Conc. (mg/kg) |
|------------------------|--------------|--------|--|-------------------------------|------------------------------------|---------------------------------------------|
| 300                    | 6.30         | R179   |  | 6.55                          | 18.55                              | 10.45                                       |
| 300                    | 6.00         | AD29   |  | <1                            | 0.64                               | 0.65                                        |
| 300                    | 5.70         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
| 300                    | 5.41         | R167   |  | 0.74                          | 0.54                               | 0.33                                        |
| 300                    | 5.11         | R167   |  | 0.74                          | 0.54                               | 0.33                                        |
| 300                    | 4.81         | R167   |  | 0.74                          | 0.54                               | 0.33                                        |
|                        |              |        |  |                               |                                    |                                             |
| d Square Concentration |              |        |  | 1.80                          | 3.66                               | 2.10                                        |
| udent 95%UCL           |              |        |  | 2.23                          | 6.99                               | 3.92                                        |
| - Student 95%UCL       |              |        |  | 4.03                          | 10.65                              | 6.02                                        |
| + Normal 95%UCL        |              |        |  | 3.66                          | 9.50                               | 5.37                                        |

| Grid Square: AE28      |              |        |  |                               |                                    |                                             |
|------------------------|--------------|--------|--|-------------------------------|------------------------------------|---------------------------------------------|
| Thickness              | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b) fluoranthene Conc. (mg/kg) |
| 300                    | 5.87         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
| 300                    | 5.59         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
| 300                    | 5.32         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
| 300                    | 5.04         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
|                        |              |        |  |                               |                                    |                                             |
| d Square Concentration |              |        |  | 1.00                          | 1.15                               | 0.51                                        |
| udent 95%UCL           |              |        |  | #NUM!                         | #NUM!                              | #NUM!                                       |
| - Student 95%UCL       |              |        |  | #NUM!                         | #NUM!                              | #NUM!                                       |
| + Normal 95%UCL        |              |        |  | #NUM!                         | #NUM!                              | #NUM!                                       |

Backfill zone data taken from <...Projects - Documents\31040 Llanwern Residential  
Formulae and inputs checked jwg, 13/08/25

|                             |                                                    |         |         |
|-----------------------------|----------------------------------------------------|---------|---------|
|                             | Selected analyses of verification samples that are |         |         |
|                             |                                                    |         |         |
| Determinand                 | cyanide                                            | cyanide | cyanide |
| SRV                         | 2.02                                               | 2.02    | 2.02    |
| Units                       | mg/kg                                              | mg/kg   | mg/kg   |
| Sample point                |                                                    |         | 4G-SV10 |
| Concentration (mg/kg)       |                                                    |         | 2.5     |
| Thickness (for SV) (m)      |                                                    |         | 0.1     |
| Backfill zone               |                                                    |         | AA25    |
| Backfill zone thickness (m) |                                                    |         | 1.10    |
| Fill average                |                                                    |         | 17.37   |
| UCL backfill                |                                                    |         | 8.68    |
| UCLmean backfill            |                                                    |         | 26.05   |
| Weighted average combined   |                                                    |         | 16.44   |
| Weighted UCL combined       |                                                    |         | 1.92    |
| Weighted UCL mean combined  |                                                    |         | 18.36   |





above the SRV

|         |  |  |  |  |
|---------|--|--|--|--|
|         |  |  |  |  |
| cyanide |  |  |  |  |
| 2.02    |  |  |  |  |
| mg/kg   |  |  |  |  |
| 4G-SV16 |  |  |  |  |
| 4.6     |  |  |  |  |
| 0.1     |  |  |  |  |
| AA26    |  |  |  |  |
| 1.12    |  |  |  |  |
| 4.28    |  |  |  |  |
| 8.12    |  |  |  |  |
| 12.41   |  |  |  |  |
| 8.55    |  |  |  |  |
| 7.14    |  |  |  |  |
| 15.69   |  |  |  |  |

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| Layer        |
| –            |
| 6            |
| 5            |
| 4            |
| 3            |
| 2            |
| 1            |
|              |
| Average Grid |
| St           |
| Mean +       |
| Mean +       |

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|              |
| Layer        |
| 5            |
| 4            |
| 3            |
| 2            |
| 1            |
|              |
| Average Grid |
| St           |
| Mean +       |
| Mean +       |

|       |
|-------|
|       |
| Layer |
| 5     |
| 4     |
| 3     |

|              |
|--------------|
| 2            |
| 1            |
|              |
| Average Grid |
| Std          |
| Mean +       |
| Mean -       |

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|              |
| Layer        |
| 5            |
| 4            |
| 3            |
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| Average Grid |
| Std          |
| Mean +       |
| Mean -       |

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| Layer        |
| 5            |
| 4            |
| 3            |
| 2            |
| 1            |
|              |
| Average Grid |
| Std          |
| Mean +       |
| Mean -       |

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|              |
| Layer        |
| 6            |
| 5            |
| 4            |
| 3            |
| 2            |
| 1            |
|              |
| Average Grid |
| Std          |
| Mean +       |
| Mean +       |

|              |
|--------------|
|              |
| Layer        |
| 4            |
| 3            |
| 2            |
| 1            |
|              |
| Average Grid |
| Std          |
| Mean +       |
| Mean +       |

| Grid Square: S24          |              |        |   |                               |                                    |                                             |
|---------------------------|--------------|--------|---|-------------------------------|------------------------------------|---------------------------------------------|
| Thickness                 | Level (mAOD) | Source |   | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b) fluoranthene Conc. (mg/kg) |
| –                         | –            | –      | – | –                             |                                    |                                             |
| 300                       | 5.90         | T23    |   | <1                            | 0.43                               | 0.51                                        |
| 300                       | 5.58         | T23    |   | <1                            | 0.43                               | 0.51                                        |
| 300                       | 5.27         | T23    |   | <1                            | 0.43                               | 0.51                                        |
| 300                       | 4.95         | T22    |   | <1                            | 1.47                               | 1.55                                        |
| 300                       | 4.63         | T23    |   | <1                            | 0.43                               | 0.51                                        |
| 300                       | 4.32         | T23    |   | <1                            | 0.43                               | 0.51                                        |
|                           |              |        |   |                               |                                    |                                             |
| Grid Square Concentration |              |        |   | 1.00                          | 0.60                               | 0.68                                        |
| Student 95%UCL            |              |        |   | #NUM!                         | 0.41                               | 0.41                                        |
| - Student 95%UCL          |              |        |   | #NUM!                         | 1.01                               | 1.09                                        |
| + Normal 95%UCL           |              |        |   | #NUM!                         | 0.94                               | 1.02                                        |

| Grid Square: W25          |              |        |  |                               |                                    |                                             |
|---------------------------|--------------|--------|--|-------------------------------|------------------------------------|---------------------------------------------|
| Thickness                 | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b) fluoranthene Conc. (mg/kg) |
| 300                       | 6.40         | W140   |  | <1                            | 0.90                               | 0.50                                        |
| 300                       | 6.11         | W123   |  | <1                            | 1.04                               | 1.10                                        |
| 300                       | 5.81         | W123   |  | <1                            | 1.04                               | 1.10                                        |
| 300                       | 5.51         | W208   |  | 0.83                          | 3.48                               | 2.15                                        |
| 300                       | 5.22         | W60    |  | 3.72                          | 39.82                              | 33.17                                       |
|                           |              |        |  |                               |                                    |                                             |
| Grid Square Concentration |              |        |  | 1.51                          | 9.26                               | 7.61                                        |
| Student 95%UCL            |              |        |  | 1.37                          | 19.01                              | 15.89                                       |
| - Student 95%UCL          |              |        |  | 2.88                          | 28.27                              | 23.49                                       |
| + Normal 95%UCL           |              |        |  | 2.48                          | 22.68                              | 18.82                                       |

| Grid Square: AA25 |              |        |  |                               |                                    |                                             |
|-------------------|--------------|--------|--|-------------------------------|------------------------------------|---------------------------------------------|
| Thickness         | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b) fluoranthene Conc. (mg/kg) |
| 300               | 6.73         | AA25   |  | 17.37                         | 11.67                              | 9.80                                        |
| 300               | 6.45         | AA25   |  | 17.37                         | 11.67                              | 9.80                                        |
| 300               | 6.18         | AA25   |  | 17.37                         | 11.67                              | 9.80                                        |

|                               |  |  |       |       |       |
|-------------------------------|--|--|-------|-------|-------|
| Standard Square Concentration |  |  | 17.37 | 11.67 | 9.80  |
| Student 95%UCL                |  |  | #NUM! | #NUM! | #NUM! |
| - Student 95%UCL              |  |  | #NUM! | #NUM! | #NUM! |
| + Normal 95%UCL               |  |  | #NUM! | #NUM! | #NUM! |

## Grid Square: AA26

| Thickness              | Level (mAOD) | Source      |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b)fluoranthene Conc. (mg/kg) |
|------------------------|--------------|-------------|--|-------------------------------|------------------------------------|--------------------------------------------|
| 300                    | 6.72         | AA26        |  | <1                            | 1.28                               | 1.18                                       |
| 300                    | 6.44         | AA25        |  | 17.37                         | 11.67                              | 9.80                                       |
| 300                    | 6.16         | AA26        |  | <1                            | 1.28                               | 1.18                                       |
| 300                    | 5.88         | AA26        |  | <1                            | 1.28                               | 1.18                                       |
| 300                    | 5.60         | A24 (4E-E2) |  | 1.06                          | 2.17                               | 1.60                                       |
|                        |              |             |  |                               |                                    |                                            |
| d Square Concentration |              |             |  | 4.28                          | 3.54                               | 2.99                                       |
| Student 95%UCL         |              |             |  | 8.12                          | 5.07                               | 4.24                                       |
| - Student 95%UCL       |              |             |  | 12.41                         | 8.61                               | 7.22                                       |
| + Normal 95%UCL        |              |             |  | 10.02                         | 7.12                               | 5.98                                       |

## Grid Square: Y28

| Thickness              | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b)fluoranthene Conc. (mg/kg) |
|------------------------|--------------|--------|--|-------------------------------|------------------------------------|--------------------------------------------|
| 300                    | 6.50         | Y28    |  | <1                            | 0.53                               | 0.32                                       |
| 300                    | 6.20         | W208   |  | 0.825                         | 3.48                               | 2.15                                       |
| 300                    | 5.90         | Y28    |  | <1                            | 0.53                               | 0.32                                       |
| 300                    | 5.60         | W208   |  | 0.825                         | 3.48                               | 2.15                                       |
| 300                    | 5.30         | Y28    |  | <1                            | 0.53                               | 0.32                                       |
|                        |              |        |  |                               |                                    |                                            |
| d Square Concentration |              |        |  | 0.93                          | 1.71                               | 1.05                                       |
| Student 95%UCL         |              |        |  | 0.11                          | 1.79                               | 1.11                                       |
| - Student 95%UCL       |              |        |  | 1.04                          | 3.51                               | 2.17                                       |
| + Normal 95%UCL        |              |        |  | 1.01                          | 2.98                               | 1.84                                       |

## Grid Square: AC28

| Thickness              | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b) fluoranthene Conc. (mg/kg) |
|------------------------|--------------|--------|--|-------------------------------|------------------------------------|---------------------------------------------|
| 300                    | 6.30         | R179   |  | 6.55                          | 18.55                              | 10.45                                       |
| 300                    | 6.00         | AD29   |  | <1                            | 0.64                               | 0.65                                        |
| 300                    | 5.70         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
| 300                    | 5.41         | R167   |  | 0.74                          | 0.54                               | 0.33                                        |
| 300                    | 5.11         | R167   |  | 0.74                          | 0.54                               | 0.33                                        |
| 300                    | 4.81         | R167   |  | 0.74                          | 0.54                               | 0.33                                        |
|                        |              |        |  |                               |                                    |                                             |
| d Square Concentration |              |        |  | 1.80                          | 3.66                               | 2.10                                        |
| udent 95%UCL           |              |        |  | 2.23                          | 6.99                               | 3.92                                        |
| - Student 95%UCL       |              |        |  | 4.03                          | 10.65                              | 6.02                                        |
| + Normal 95%UCL        |              |        |  | 3.66                          | 9.50                               | 5.37                                        |

| Grid Square: AE28      |              |        |  |                               |                                    |                                             |
|------------------------|--------------|--------|--|-------------------------------|------------------------------------|---------------------------------------------|
| Thickness              | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) | Average Benzo(b) fluoranthene Conc. (mg/kg) |
| 300                    | 5.87         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
| 300                    | 5.59         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
| 300                    | 5.32         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
| 300                    | 5.04         | AE28   |  | <1                            | 1.15                               | 0.51                                        |
|                        |              |        |  |                               |                                    |                                             |
| d Square Concentration |              |        |  | 1.00                          | 1.15                               | 0.51                                        |
| udent 95%UCL           |              |        |  | #NUM!                         | #NUM!                              | #NUM!                                       |
| - Student 95%UCL       |              |        |  | #NUM!                         | #NUM!                              | #NUM!                                       |
| + Normal 95%UCL        |              |        |  | #NUM!                         | #NUM!                              | #NUM!                                       |

Backfill zone data taken from <...Projects - Documents\31040 Llanwern Residential  
Formulae and inputs checked jwg, 13/08/25

|                             |                                                    |              |              |
|-----------------------------|----------------------------------------------------|--------------|--------------|
|                             | Selected analyses of verification samples that are |              |              |
|                             |                                                    |              |              |
| Determinand                 | fluoranthene                                       | fluoranthene | fluoranthene |
| SRV                         | 6.64                                               | 6.64         | 6.64         |
| Units                       | mg/kg                                              | mg/kg        | mg/kg        |
| Sample point                |                                                    |              | 4G-SV10      |
| Concentration (mg/kg)       |                                                    |              | 11           |
| Thickness (for SV) (m)      |                                                    |              | 0.1          |
| Backfill zone               |                                                    |              | AA25         |
| Backfill zone thickness (m) |                                                    |              | 1.10         |
| Fill average                |                                                    |              | 11.67        |
| UCL backfill                |                                                    |              | 5.84         |
| UCLmean backfill            |                                                    |              | 17.51        |
| Weighted average combined   |                                                    |              | 11.63        |
| Weighted UCL combined       |                                                    |              | 0.09         |
| Weighted UCL mean combined  |                                                    |              | 11.72        |





above the SRV

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
|              |              |              |              |              |
| fluoranthene | fluoranthene | fluoranthene | fluoranthene | fluoranthene |
| 6.64         | 6.64         | 6.64         | 6.64         | 6.64         |
| mg/kg        | mg/kg        | mg/kg        | mg/kg        | mg/kg        |
| 4G-SV15      | 4G-SV16      |              |              |              |
| 6.7          | 14           |              |              |              |
| 0.1          | 0.1          |              |              |              |
| X27          | AA26         |              |              |              |
| 0.90         | 1.12         |              |              |              |
| 3.54         | 3.54         |              |              |              |
| 5.07         | 5.07         |              |              |              |
| 8.61         | 8.61         |              |              |              |
| 3.74         | 4.19         |              |              |              |
| 2.15         | 2.50         |              |              |              |
| 5.88         | 6.69         |              |              |              |





ne

| Grid Square: S24                  |           |              |        |   |                               |                                    |
|-----------------------------------|-----------|--------------|--------|---|-------------------------------|------------------------------------|
| Layer                             | Thickness | Level (mAOD) | Source |   | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) |
| –                                 | –         | –            | –      | – | –                             |                                    |
| 6                                 | 300       | 5.90         | T23    |   | <1                            | 0.43                               |
| 5                                 | 300       | 5.58         | T23    |   | <1                            | 0.43                               |
| 4                                 | 300       | 5.27         | T23    |   | <1                            | 0.43                               |
| 3                                 | 300       | 4.95         | T22    |   | <1                            | 1.47                               |
| 2                                 | 300       | 4.63         | T23    |   | <1                            | 0.43                               |
| 1                                 | 300       | 4.32         | T23    |   | <1                            | 0.43                               |
|                                   |           |              |        |   |                               |                                    |
| Average Grid Square Concentration |           |              |        |   | 1.00                          | 0.60                               |
| Student 95%UCL                    |           |              |        |   | #NUM!                         | 0.41                               |
| Mean + Student 95%UCL             |           |              |        |   | #NUM!                         | 1.01                               |
| Mean + Normal 95%UCL              |           |              |        |   | #NUM!                         | 0.94                               |

| Grid Square: W25                  |           |              |        |  |                               |                                    |
|-----------------------------------|-----------|--------------|--------|--|-------------------------------|------------------------------------|
| Layer                             | Thickness | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) |
| 5                                 | 300       | 6.40         | W140   |  | <1                            | 0.90                               |
| 4                                 | 300       | 6.11         | W123   |  | <1                            | 1.04                               |
| 3                                 | 300       | 5.81         | W123   |  | <1                            | 1.04                               |
| 2                                 | 300       | 5.51         | W208   |  | 0.83                          | 3.48                               |
| 1                                 | 300       | 5.22         | W60    |  | 3.72                          | 39.82                              |
|                                   |           |              |        |  |                               |                                    |
| Average Grid Square Concentration |           |              |        |  | 1.51                          | 9.26                               |
| Student 95%UCL                    |           |              |        |  | 1.37                          | 19.01                              |
| Mean + Student 95%UCL             |           |              |        |  | 2.88                          | 28.27                              |
| Mean + Normal 95%UCL              |           |              |        |  | 2.48                          | 22.68                              |

| Grid Square: AA25 |           |              |        |  |                               |                                    |
|-------------------|-----------|--------------|--------|--|-------------------------------|------------------------------------|
| Layer             | Thickness | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) |
| 5                 | 300       | 6.73         | AA25   |  | 17.37                         | 11.67                              |
| 4                 | 300       | 6.45         | AA25   |  | 17.37                         | 11.67                              |
| 3                 | 300       | 6.18         | AA25   |  | 17.37                         | 11.67                              |



| Layer                             | Thickness | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) |
|-----------------------------------|-----------|--------------|--------|--|-------------------------------|------------------------------------|
| 6                                 | 300       | 6.30         | R179   |  | 6.55                          | 18.55                              |
| 5                                 | 300       | 6.00         | AD29   |  | <1                            | 0.64                               |
| 4                                 | 300       | 5.70         | AE28   |  | <1                            | 1.15                               |
| 3                                 | 300       | 5.41         | R167   |  | 0.74                          | 0.54                               |
| 2                                 | 300       | 5.11         | R167   |  | 0.74                          | 0.54                               |
| 1                                 | 300       | 4.81         | R167   |  | 0.74                          | 0.54                               |
| Average Grid Square Concentration |           |              |        |  | 1.80                          | 3.66                               |
| Student 95%UCL                    |           |              |        |  | 2.23                          | 6.99                               |
| Mean + Student 95%UCL             |           |              |        |  | 4.03                          | 10.65                              |
| Mean + Normal 95%UCL              |           |              |        |  | 3.66                          | 9.50                               |

| Grid Square: AE28                 |           |              |        |  |                               |                                    |
|-----------------------------------|-----------|--------------|--------|--|-------------------------------|------------------------------------|
| Layer                             | Thickness | Level (mAOD) | Source |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) |
| 4                                 | 300       | 5.87         | AE28   |  | <1                            | 1.15                               |
| 3                                 | 300       | 5.59         | AE28   |  | <1                            | 1.15                               |
| 2                                 | 300       | 5.32         | AE28   |  | <1                            | 1.15                               |
| 1                                 | 300       | 5.04         | AE28   |  | <1                            | 1.15                               |
| Average Grid Square Concentration |           |              |        |  | 1.00                          | 1.15                               |
| Student 95%UCL                    |           |              |        |  | #NUM!                         | #NUM!                              |
| Mean + Student 95%UCL             |           |              |        |  | #NUM!                         | #NUM!                              |
| Mean + Normal 95%UCL              |           |              |        |  | #NUM!                         | #NUM!                              |

| Grid Square: X27                  |           |              |            |  |                               |                                    |
|-----------------------------------|-----------|--------------|------------|--|-------------------------------|------------------------------------|
| Layer                             | Thickness | Level (mAOD) | Source     |  | Average Cyanide Conc. (mg/kg) | Average Fluoranthene Conc. (mg/kg) |
| 4                                 | 300       | 6.30         | W24 (4CJ3) |  | <1                            | 2.23                               |
| 3                                 | 300       | 6.00         | W24 (4CJ3) |  | <1                            | 2.23                               |
| 2                                 | 300       | 5.70         | X25 (4EB4) |  | <1                            | 1.73                               |
| 1                                 | 300       | 5.40         | X25 (4EB4) |  | <1                            | 1.73                               |
| Average Grid Square Concentration |           |              |            |  | 1.00                          | 1.98                               |
| Student 95%UCL                    |           |              |            |  | #NUM!                         | 0.40                               |
| Mean + Student 95%UCL             |           |              |            |  | #NUM!                         | 2.37                               |
| Mean + Normal 95%UCL              |           |              |            |  | #NUM!                         | 2.20                               |

| Average Benzo(b)fluoranthene Conc. (mg/kg) |
|--------------------------------------------|
|                                            |
| 0.51                                       |
| 0.51                                       |
| 0.51                                       |
| 1.55                                       |
| 0.51                                       |
| 0.51                                       |
|                                            |
| 0.68                                       |
| 0.41                                       |
| 1.09                                       |
| 1.02                                       |

| Average Benzo(b)fluoranthene Conc. (mg/kg) |
|--------------------------------------------|
| 0.50                                       |
| 1.10                                       |
| 1.10                                       |
| 2.15                                       |
| 33.17                                      |
|                                            |
| 7.61                                       |
| 15.89                                      |
| 23.49                                      |
| 18.82                                      |

| Average Benzo(b)fluoranthene Conc. (mg/kg) |
|--------------------------------------------|
| 9.80                                       |
| 9.80                                       |
| 9.80                                       |

|       |
|-------|
| 9.80  |
| 9.80  |
|       |
| 9.80  |
| #NUM! |
| #NUM! |
| #NUM! |

|                                            |
|--------------------------------------------|
|                                            |
| Average Benzo(b)fluoranthene Conc. (mg/kg) |
| 1.18                                       |
| 9.80                                       |
| 1.18                                       |
| 1.18                                       |
| 1.60                                       |
|                                            |
| 2.99                                       |
| 4.24                                       |
| 7.22                                       |
| 5.98                                       |

|                                            |
|--------------------------------------------|
|                                            |
| Average Benzo(b)fluoranthene Conc. (mg/kg) |
| 0.32                                       |
| 2.15                                       |
| 0.32                                       |
| 2.15                                       |
| 0.32                                       |
|                                            |
| 1.05                                       |
| 1.11                                       |
| 2.17                                       |
| 1.84                                       |

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|                                                           |
|-----------------------------------------------------------|
| Average<br>Benzo(b) f<br>luoranthe<br>ne Conc.<br>(mg/kg) |
| 10.45                                                     |
| 0.65                                                      |
| 0.51                                                      |
| 0.33                                                      |
| 0.33                                                      |
| 0.33                                                      |
|                                                           |
| 2.10                                                      |
| 3.92                                                      |
| 6.02                                                      |
| 5.37                                                      |

|                                                           |
|-----------------------------------------------------------|
|                                                           |
| Average<br>Benzo(b) f<br>luoranthe<br>ne Conc.<br>(mg/kg) |
| 0.51                                                      |
| 0.51                                                      |
| 0.51                                                      |
| 0.51                                                      |
|                                                           |
| 0.51                                                      |
| #NUM!                                                     |
| #NUM!                                                     |
| #NUM!                                                     |

|                                                           |
|-----------------------------------------------------------|
|                                                           |
| Average<br>Benzo(b) f<br>luoranthe<br>ne Conc.<br>(mg/kg) |
| 1.10                                                      |
| 1.10                                                      |
| 1.27                                                      |
| 1.27                                                      |
|                                                           |
| 1.18                                                      |
| 0.14                                                      |
| 1.32                                                      |
| 1.26                                                      |