

Waste Interpretations – Blaen y coed (2025)

DCWW

Analysis of Bala sludge

Date: 28/04/2025

Sample no. 8358319

| | |
|---------------------------|-------|
| Application rate (t/ha) | 250 |
| Application rate (t/acre) | 100.0 |
| pH | 6.9 |
| Dry solids (%) | 2.4 |
| Organic matter (%) | 50.8 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|--|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 1.17 | % | 0.28 | 69.9 | 0.01 | 1.5 |
| Ammonium-N | 256 | mg/kg | 0.01 | 1.5 | | |
| Phosphorus (P) | 0.05 | % | 0.01 | 3.0 | | |
| Phosphate (P ₂ O ₅) | | | 0.03 | 6.7 | 0.0 | 3.4 |
| Potassium (K) | 0.01 | % | 0.00 | 0.5 | | |
| Potash (K ₂ O) | | | 0.00 | 0.6 | 0.0 | 0.6 |
| Magnesium (Mg) | 1820 | mg/kg | 0.04 | 10.9 | | |
| Magnesium (MgO) | | | 0.07 | 17.4 | 0.0 | 4.3 |
| Sulphur (S) | 4670 | mg/kg | 0.11 | 27.9 | | |
| Sulphur (SO ₃) | | | 0.28 | 69.8 | 0.0 | 7.0 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 162.0 | mg/kg | 3.9 | 0.97 | 15.00 |
| Copper | 26.0 | mg/kg | 0.62 | 0.16 | 7.50 |
| Nickel | 3.6 | mg/kg | 0.09 | 0.02 | 3.00 |
| Lead | 5.4 | mg/kg | 0.13 | 0.03 | 15.00 |
| Cadmium | 0.51 | mg/kg | 0.01 | 0.00 | 0.15 |
| Chromium | 2.8 | mg/kg | 0.07 | 0.02 | 15.00 |
| Mercury | 1.7 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 12.5 | mg/kg | 0.30 | 0.07 | 0.70 |
| Aluminium | 181000 | mg/kg | 4326 | 1081.5 | |
| Iron | 6200 | mg/kg | 148 | 37.0 | |

DCWW

Analysis of Bryn Cowlyd sludge

Date: 28/04/2025

Sample no. 8358325

| | |
|---------------------------|-------|
| Application rate (t/ha) | 250 |
| Application rate (t/acre) | 100.0 |
| pH | 5.9 |
| Dry solids (%) | 2.3 |
| Organic matter (%) | 29.6 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|--|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.66 | % | 0.15 | 38.7 | 0.01 | 1.5 |
| Ammonium-N | 262 | mg/kg | 0.01 | 1.5 | | |
| Phosphorus (P) | 0.03 | % | 0.01 | 1.8 | | |
| Phosphate (P ₂ O ₅) | | | 0.02 | 4.0 | 0.0 | 2.0 |
| Potassium (K) | 0.02 | % | 0.00 | 1.2 | | |
| Potash (K ₂ O) | | | 0.01 | 1.4 | 0.0 | 1.3 |
| Magnesium (Mg) | 369 | mg/kg | 0.01 | 2.1 | | |
| Magnesium (MgO) | | | 0.01 | 3.4 | 0.0 | 0.9 |
| Sulphur (S) | 4180 | mg/kg | 0.10 | 24.3 | | |
| Sulphur (SO ₃) | | | 0.24 | 60.9 | 0.0 | 6.1 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 168.0 | mg/kg | 3.9 | 0.98 | 15.00 |
| Copper | 5.0 | mg/kg | 0.12 | 0.03 | 7.50 |
| Nickel | 37.2 | mg/kg | 0.87 | 0.22 | 3.00 |
| Lead | 13.0 | mg/kg | 0.30 | 0.08 | 15.00 |
| Cadmium | 0.73 | mg/kg | 0.02 | 0.00 | 0.15 |
| Chromium | 2.9 | mg/kg | 0.07 | 0.02 | 15.00 |
| Mercury | 1.7 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 13.1 | mg/kg | 0.31 | 0.08 | 0.70 |
| Aluminium | 3720 | mg/kg | 87 | 21.7 | |
| Iron | 460000 | mg/kg | 10718 | 2679.5 | |

DCWW

Analysis of Cilfor sludge

Date: 28/04/2025

Sample no. 8358293

| | |
|---------------------------|------|
| Application rate (t/ha) | 82 |
| Application rate (t/acre) | 32.8 |
| pH | 6.7 |
| Dry solids (%) | 4.7 |
| Organic matter (%) | 47.9 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|--|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.92 | % | 0.43 | 35.4 | 0.01 | 1.0 |
| Ammonium-N | 268 | mg/kg | 0.01 | 1.0 | | |
| Phosphorus (P) | 0.42 | % | 0.20 | 16.3 | | |
| Phosphate (P ₂ O ₅) | | | 0.45 | 37.3 | 0.2 | 18.6 |
| Potassium (K) | 0.01 | % | 0.00 | 0.3 | | |
| Potash (K ₂ O) | | | 0.00 | 0.4 | 0.0 | 0.4 |
| Magnesium (Mg) | 1200 | mg/kg | 0.06 | 4.6 | | |
| Magnesium (MgO) | | | 0.09 | 7.4 | 0.0 | 1.8 |
| Sulphur (S) | 12200 | mg/kg | 0.57 | 47.0 | | |
| Sulphur (SO ₃) | | | 1.43 | 117.5 | 0.1 | 11.8 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 81.4 | mg/kg | 3.8 | 0.31 | 15.00 |
| Copper | 32.6 | mg/kg | 1.53 | 0.13 | 7.50 |
| Nickel | 31.8 | mg/kg | 1.49 | 0.12 | 3.00 |
| Lead | 2.8 | mg/kg | 0.13 | 0.01 | 15.00 |
| Cadmium | 0.31 | mg/kg | 0.01 | 0.00 | 0.15 |
| Chromium | 4.3 | mg/kg | 0.20 | 0.02 | 15.00 |
| Mercury | 0.9 | mg/kg | 0.04 | 0.00 | 0.10 |
| Arsenic | 9.4 | mg/kg | 0.44 | 0.04 | 0.70 |
| Aluminium | 230000 | mg/kg | 10810 | 886.4 | |
| Iron | 5700 | mg/kg | 268 | 22.0 | |

DCWW

Analysis of Eithinfynydd sludge

Date: 28/04/2025

Sample no. 8358299

| | |
|---------------------------|------|
| Application rate (t/ha) | 204 |
| Application rate (t/acre) | 81.6 |
| pH | 6.4 |
| Dry solids (%) | 3.0 |
| Organic matter (%) | 54.6 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|--|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.98 | % | 0.29 | 59.7 | 0.01 | 1.2 |
| Ammonium-N | 203 | mg/kg | 0.01 | 1.2 | | |
| Phosphorus (P) | 0.27 | % | 0.08 | 16.5 | | |
| Phosphate (P ₂ O ₅) | | | 0.18 | 37.5 | 0.1 | 18.8 |
| Potassium (K) | 0.02 | % | 0.01 | 1.2 | | |
| Potash (K ₂ O) | | | 0.01 | 1.5 | 0.0 | 1.3 |
| Magnesium (Mg) | 356 | mg/kg | 0.01 | 2.2 | | |
| Magnesium (MgO) | | | 0.02 | 3.5 | 0.0 | 0.9 |
| Sulphur (S) | 14700 | mg/kg | 0.44 | 89.7 | | |
| Sulphur (SO ₃) | | | 1.10 | 224.2 | 0.1 | 22.4 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 34.5 | mg/kg | 1.0 | 0.21 | 15.00 |
| Copper | 25.7 | mg/kg | 0.77 | 0.16 | 7.50 |
| Nickel | 2.9 | mg/kg | 0.09 | 0.02 | 3.00 |
| Lead | 4.4 | mg/kg | 0.13 | 0.03 | 15.00 |
| Cadmium | 0.31 | mg/kg | 0.01 | 0.00 | 0.15 |
| Chromium | 2.3 | mg/kg | 0.07 | 0.01 | 15.00 |
| Mercury | 1.3 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 10.1 | mg/kg | 0.30 | 0.06 | 0.70 |
| Aluminium | 204000 | mg/kg | 6100 | 1244.3 | |
| Iron | 1610 | mg/kg | 48 | 9.8 | |

DCWW

Analysis of Garreglwyd sludge

Date: 28/04/2025

Sample no. 8358309

| | |
|---------------------------|-------|
| Application rate (t/ha) | 250 |
| Application rate (t/acre) | 100.0 |
| pH | 6.1 |
| Dry solids (%) | 4.5 |
| Organic matter (%) | 31.7 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|------------------|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.69 | % | 0.31 | 78.1 | 0.01 | 1.5 |
| Ammonium-N | 136.0 | mg/kg | 0.01 | 1.5 | | |
| Phosphorus (P) | 0.13 | % | 0.06 | 14.9 | | |
| Phosphate (P2O5) | | | 0.14 | 33.9 | 0.1 | 17.0 |
| Potassium (K) | 0.01 | % | 0.00 | 1.1 | | |
| Potash (K2O) | | | 0.01 | 1.4 | 0.0 | 1.2 |
| Magnesium (Mg) | 556 | mg/kg | 0.03 | 6.3 | | |
| Magnesium (MgO) | | | 0.04 | 10.0 | 0.0 | 2.5 |
| Sulphur (S) | 2690 | mg/kg | 0.12 | 30.3 | | |
| Sulphur (SO3) | | | 0.30 | 75.8 | 0.0 | 7.6 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 441.0 | mg/kg | 19.9 | 4.97 | 15.00 |
| Copper | 28.9 | mg/kg | 1.30 | 0.33 | 7.50 |
| Nickel | 22.1 | mg/kg | 1.00 | 0.25 | 3.00 |
| Lead | 31.8 | mg/kg | 1.43 | 0.36 | 15.00 |
| Cadmium | 1.35 | mg/kg | 0.06 | 0.02 | 0.15 |
| Chromium | 14.8 | mg/kg | 0.67 | 0.17 | 15.00 |
| Mercury | 0.9 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 14.1 | mg/kg | 0.64 | 0.16 | 0.70 |
| Aluminium | 5310 | mg/kg | 239 | 59.9 | |
| Iron | 471000 | mg/kg | 21242 | 5310.5 | |

DCWW

Analysis of Gwastadgoed sludge

Date: 28/04/2025

Sample no.8358307

| | |
|---------------------------|-------|
| Application rate (t/ha) | 250 |
| Application rate (t/acre) | 100.0 |
| pH | 5.6 |
| Dry solids (%) | 6.0 |
| Organic matter (%) | 16.3 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|------------------|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.32 | % | 0.19 | 47.5 | 0.01 | 1.5 |
| Ammonium-N | 102 | mg/kg | 0.01 | 1.5 | | |
| Phosphorus (P) | 0.17 | % | 0.10 | 25.2 | | |
| Phosphate (P2O5) | | | 0.23 | 57.4 | 0.1 | 28.7 |
| Potassium (K) | 0.01 | % | 0.01 | 1.5 | | |
| Potash (K2O) | | | 0.01 | 1.8 | 0.0 | 1.6 |
| Magnesium (Mg) | 320 | mg/kg | 0.02 | 4.8 | | |
| Magnesium (MgO) | | | 0.03 | 7.7 | 0.0 | 1.9 |
| Sulphur (S) | 10800 | mg/kg | 0.65 | 161.7 | | |
| Sulphur (SO3) | | | 1.62 | 404.3 | 0.2 | 40.4 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 163.0 | mg/kg | 9.8 | 2.44 | 15.00 |
| Copper | 2.0 | mg/kg | 0.12 | 0.03 | 7.50 |
| Nickel | 61.5 | mg/kg | 3.68 | 0.92 | 3.00 |
| Lead | 26.1 | mg/kg | 1.56 | 0.39 | 15.00 |
| Cadmium | 0.30 | mg/kg | 0.02 | 0.00 | 0.15 |
| Chromium | 1.2 | mg/kg | 0.07 | 0.02 | 15.00 |
| Mercury | 0.7 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 15.2 | mg/kg | 0.91 | 0.23 | 0.70 |
| Aluminium | 3230 | mg/kg | 193 | 48.4 | |
| Iron | 519000 | mg/kg | 31088 | 7772.0 | |

DCWW

Analysis of Gwastadgoed sludge

Date: 28/04/2025

Sample no.8358307

| | |
|---------------------------|------|
| Application rate (t/ha) | 163 |
| Application rate (t/acre) | 65.2 |
| pH | 5.6 |
| Dry solids (%) | 6.0 |
| Organic matter (%) | 16.3 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|------------------|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.32 | % | 0.19 | 31.0 | 0.01 | 1.0 |
| Ammonium-N | 102 | mg/kg | 0.01 | 1.0 | | |
| Phosphorus (P) | 0.17 | % | 0.10 | 16.4 | | |
| Phosphate (P2O5) | | | 0.23 | 37.4 | 0.1 | 18.7 |
| Potassium (K) | 0.01 | % | 0.01 | 1.0 | | |
| Potash (K2O) | | | 0.01 | 1.2 | 0.0 | 1.1 |
| Magnesium (Mg) | 320 | mg/kg | 0.02 | 3.1 | | |
| Magnesium (MgO) | | | 0.03 | 5.0 | 0.0 | 1.2 |
| Sulphur (S) | 10800 | mg/kg | 0.65 | 105.4 | | |
| Sulphur (SO3) | | | 1.62 | 263.6 | 0.2 | 26.4 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 163.0 | mg/kg | 9.8 | 1.59 | 15.00 |
| Copper | 2.0 | mg/kg | 0.12 | 0.02 | 7.50 |
| Nickel | 61.5 | mg/kg | 3.68 | 0.60 | 3.00 |
| Lead | 26.1 | mg/kg | 1.56 | 0.25 | 15.00 |
| Cadmium | 0.30 | mg/kg | 0.02 | 0.00 | 0.15 |
| Chromium | 1.2 | mg/kg | 0.07 | 0.01 | 15.00 |
| Mercury | 0.7 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 15.2 | mg/kg | 0.91 | 0.15 | 0.70 |
| Aluminium | 3230 | mg/kg | 193 | 31.5 | |
| Iron | 519000 | mg/kg | 31088 | 5067.4 | |

DCWW

Analysis of Llyn Conwy sludge

Date: 20/06/2025

Sample no. 8420725

| | |
|---------------------------|-------|
| Application rate (t/ha) | 250 |
| Application rate (t/acre) | 100.0 |
| pH | 5.3 |
| Dry solids (%) | 3.6 |
| Organic matter (%) | 35.9 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|--|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.55 | % | 0.20 | 50.3 | 0.00 | 0.1 |
| Ammonium-N | 6 | mg/kg | 0.00 | 0.1 | | |
| Phosphorus (P) | 0.08 | % | 0.03 | 7.0 | | |
| Phosphate (P ₂ O ₅) | | | 0.06 | 16.1 | 0.0 | 8.0 |
| Potassium (K) | 0.01 | % | 0.00 | 0.8 | | |
| Potash (K ₂ O) | | | 0.00 | 1.0 | 0.0 | 0.9 |
| Magnesium (Mg) | 310 | mg/kg | 0.01 | 2.8 | | |
| Magnesium (MgO) | | | 0.02 | 4.5 | 0.0 | 1.1 |
| Sulphur (S) | 5290 | mg/kg | 0.19 | 48.1 | | |
| Sulphur (SO ₃) | | | 0.48 | 120.3 | 0.0 | 12.0 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 268.0 | mg/kg | 9.8 | 2.44 | 15.00 |
| Copper | 3.2 | mg/kg | 0.12 | 0.03 | 7.50 |
| Nickel | 13.3 | mg/kg | 0.48 | 0.12 | 3.00 |
| Lead | 26.1 | mg/kg | 0.95 | 0.24 | 15.00 |
| Cadmium | 0.93 | mg/kg | 0.03 | 0.01 | 0.15 |
| Chromium | 17.9 | mg/kg | 0.65 | 0.16 | 15.00 |
| Mercury | 1.1 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 28.7 | mg/kg | 1.04 | 0.26 | 0.70 |
| Aluminium | 2880 | mg/kg | 105 | 26.2 | |
| Iron | 404000 | mg/kg | 14706 | 3676.4 | |

DCWW

Analysis of Penycefn sludge

Date: 28/04/2025

Sample no. 8358301

| | |
|---------------------------|------|
| Application rate (t/ha) | 195 |
| Application rate (t/acre) | 78.0 |
| pH | 6.4 |
| Dry solids (%) | 2.8 |
| Organic matter (%) | 40.0 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|--|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 1.34 | % | 0.37 | 72.1 | 0.01 | 1.2 |
| Ammonium-N | 220.0 | mg/kg | 0.01 | 1.2 | | |
| Phosphorus (P) | 0.31 | % | 0.08 | 16.5 | | |
| Phosphate (P ₂ O ₅) | | | 0.19 | 37.5 | 0.1 | 18.8 |
| Potassium (K) | 0.01 | % | 0.00 | 0.5 | | |
| Potash (K ₂ O) | | | 0.00 | 0.6 | 0.0 | 0.5 |
| Magnesium (Mg) | 489 | mg/kg | 0.01 | 2.6 | | |
| Magnesium (MgO) | | | 0.02 | 4.2 | 0.0 | 1.1 |
| Sulphur (S) | 12800 | mg/kg | 0.35 | 68.9 | | |
| Sulphur (SO ₃) | | | 0.88 | 172.2 | 0.1 | 17.2 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 78.2 | mg/kg | 2.2 | 0.42 | 15.00 |
| Copper | 40.4 | mg/kg | 1.12 | 0.22 | 7.50 |
| Nickel | 3.1 | mg/kg | 0.09 | 0.02 | 3.00 |
| Lead | 4.7 | mg/kg | 0.13 | 0.03 | 15.00 |
| Cadmium | 0.34 | mg/kg | 0.01 | 0.00 | 0.15 |
| Chromium | 2.5 | mg/kg | 0.07 | 0.01 | 15.00 |
| Mercury | 1.5 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 43.1 | mg/kg | 1.19 | 0.23 | 0.70 |
| Aluminium | 178000 | mg/kg | 4913 | 958.0 | |
| Iron | 4360 | mg/kg | 120 | 23.5 | |

DCWW

Analysis of Penybont sludge

Date: 28/04/2025

Sample no. 8358303

| | |
|---------------------------|------|
| Application rate (t/ha) | 112 |
| Application rate (t/acre) | 44.8 |
| pH | 6.8 |
| Dry solids (%) | 2.7 |
| Organic matter (%) | 30.8 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|--|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.86 | % | 0.23 | 25.8 | 0.01 | 0.7 |
| Ammonium-N | 227 | mg/kg | 0.01 | 0.7 | | |
| Phosphorus (P) | 0.55 | % | 0.15 | 16.4 | | |
| Phosphate (P ₂ O ₅) | | | 0.33 | 37.4 | 0.2 | 18.7 |
| Potassium (K) | 0.02 | % | 0.01 | 0.6 | | |
| Potash (K ₂ O) | | | 0.01 | 0.7 | 0.0 | 0.6 |
| Magnesium (Mg) | 1070 | mg/kg | 0.03 | 3.2 | | |
| Magnesium (MgO) | | | 0.05 | 5.1 | 0.0 | 1.3 |
| Sulphur (S) | 13000 | mg/kg | 0.35 | 39.0 | | |
| Sulphur (SO ₃) | | | 0.87 | 97.6 | 0.1 | 9.8 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 99.7 | mg/kg | 2.7 | 0.30 | 15.00 |
| Copper | 34.7 | mg/kg | 0.93 | 0.10 | 7.50 |
| Nickel | 7.9 | mg/kg | 0.21 | 0.02 | 3.00 |
| Lead | 4.8 | mg/kg | 0.13 | 0.01 | 15.00 |
| Cadmium | 0.35 | mg/kg | 0.01 | 0.00 | 0.15 |
| Chromium | 4.6 | mg/kg | 0.12 | 0.01 | 15.00 |
| Mercury | 1.5 | mg/kg | 0.04 | 0.00 | 0.10 |
| Arsenic | 47.7 | mg/kg | 1.28 | 0.14 | 0.70 |
| Aluminium | 217000 | mg/kg | 5816 | 651.3 | |
| Iron | 9250 | mg/kg | 248 | 27.8 | |

DCWW

Analysis of Rhiwgoch sludge

Date: 28/04/2025

Sample no. 8358297

| | |
|---------------------------|-------|
| Application rate (t/ha) | 250 |
| Application rate (t/acre) | 100.0 |
| pH | 6.2 |
| Dry solids (%) | 4.4 |
| Organic matter (%) | 30.9 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|--|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.62 | % | 0.27 | 67.8 | 0.01 | 1.5 |
| Ammonium-N | 139 | mg/kg | 0.01 | 1.5 | | |
| Phosphorus (P) | 0.29 | % | 0.13 | 31.6 | | |
| Phosphate (P ₂ O ₅) | | | 0.29 | 72.0 | 0.1 | 36.0 |
| Potassium (K) | 0.01 | % | 0.00 | 1.1 | | |
| Potash (K ₂ O) | | | 0.01 | 1.3 | 0.0 | 1.2 |
| Magnesium (Mg) | 437 | mg/kg | 0.02 | 4.8 | | |
| Magnesium (MgO) | | | 0.03 | 7.7 | 0.0 | 1.9 |
| Sulphur (S) | 3100 | mg/kg | 0.14 | 34.1 | | |
| Sulphur (SO ₃) | | | 0.34 | 85.3 | 0.0 | 8.5 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 299.0 | mg/kg | 13.2 | 3.29 | 15.00 |
| Copper | 16.7 | mg/kg | 0.73 | 0.18 | 7.50 |
| Nickel | 15.9 | mg/kg | 0.70 | 0.17 | 3.00 |
| Lead | 27.7 | mg/kg | 1.22 | 0.30 | 15.00 |
| Cadmium | 0.87 | mg/kg | 0.04 | 0.01 | 0.15 |
| Chromium | 14.7 | mg/kg | 0.65 | 0.16 | 15.00 |
| Mercury | 0.9 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 11.5 | mg/kg | 0.51 | 0.13 | 0.70 |
| Aluminium | 5030 | mg/kg | 221 | 55.3 | |
| Iron | 464000 | mg/kg | 20416 | 5104.0 | |

DCWW

Analysis of Rhiwgoch sludge

Date: 28/04/2025

Sample no. 8358297

| | |
|---------------------------|------|
| Application rate (t/ha) | 130 |
| Application rate (t/acre) | 52.0 |
| pH | 6.2 |
| Dry solids (%) | 4.4 |
| Organic matter (%) | 30.9 |

NUTRIENT CONTENT

| TOTALS | result | units | Total | | Available | |
|--|--------|-------|------------|----------|------------|----------|
| | | | (kg/tonne) | (kg/ha) | (kg/tonne) | (kg/ha) |
| Nitrogen (N) | 0.62 | % | 0.27 | 35.2 | 0.01 | 0.8 |
| Ammonium-N | 139 | mg/kg | 0.01 | 0.8 | | |
| Phosphorus (P) | 0.29 | % | 0.13 | 16.4 | | |
| Phosphate (P ₂ O ₅) | | | 0.29 | 37.4 | 0.1 | 18.7 |
| Potassium (K) | 0.01 | % | 0.00 | 0.6 | | |
| Potash (K ₂ O) | | | 0.01 | 0.7 | 0.0 | 0.6 |
| Magnesium (Mg) | 437 | mg/kg | 0.02 | 2.5 | | |
| Magnesium (MgO) | | | 0.03 | 4.0 | 0.0 | 1.0 |
| Sulphur (S) | 3100 | mg/kg | 0.14 | 17.7 | | |
| Sulphur (SO ₃) | | | 0.34 | 44.3 | 0.0 | 4.4 |
| Calcium (Ca) | | mg/kg | 0.0 | 0.0 | | |

POTENTIALLY TOXIC ELEMENTS

| TOTALS | result | units | Amount | | Limit |
|-----------|--------|-------|-----------|---------|------------|
| | | | (g/tonne) | (kg/ha) | (kg/ha/yr) |
| Zinc | 299.0 | mg/kg | 13.2 | 1.71 | 15.00 |
| Copper | 16.7 | mg/kg | 0.73 | 0.10 | 7.50 |
| Nickel | 15.9 | mg/kg | 0.70 | 0.09 | 3.00 |
| Lead | 27.7 | mg/kg | 1.22 | 0.16 | 15.00 |
| Cadmium | 0.87 | mg/kg | 0.04 | 0.00 | 0.15 |
| Chromium | 14.7 | mg/kg | 0.65 | 0.08 | 15.00 |
| Mercury | 0.9 | mg/kg | 0.04 | 0.01 | 0.10 |
| Arsenic | 11.5 | mg/kg | 0.51 | 0.07 | 0.70 |
| Aluminium | 5030 | mg/kg | 221 | 28.8 | |
| Iron | 464000 | mg/kg | 20416 | 2654.1 | |