# DCWW

## Analysis of Elan Valley Sludge

**Date: 15/04/2026** Sample no. 8756809

| | |
|---|---|
| **Application rate (t/ha)** | **142** |
| **Application rate (t/acre)** | **56.8** |
| **pH** | **5.7** |
| **Dry solids (%)** | **3.3** |
| **Organic matter (%)** | **29.3** |

### NUTRIENT CONTENT

| | | | Total | | Available | |
|---|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(kg/tonne)** | **( kg/ha)** | **(kg/tonne)** | **( kg/ha)** |
| **Nitrogen (N)** | 0.65 | % | 0.21 | 30.1 | 0.006 | 0.9 |
| **Ammonium-N** | 187 | mg/kg | 0.01 | 0.9 | | |
| **Phosphorus (P)** | 1.78 | % | 0.58 | 82.9 | | |
| **Phosphate ($P_2O_5$)** | | | 1.33 | 189.0 | 0.7 | 94.5 |
| **Potassium (K)** | 0.05 | % | 0.02 | 2.5 | | |
| **Potash ($K_2O$)** | | | 0.02 | 3.0 | 0.0 | 2.7 |
| **Magnesium (Mg)** | 1439 | mg/kg | 0.05 | 6.7 | | |
| **Magnesium (MgO)** | | | 0.08 | 10.7 | 0.0 | 2.7 |
| **Sulphur (S)** | 4698 | mg/kg | 0.15 | 21.9 | | |
| **Sulphur ($SO_3$)** | | | 0.39 | 54.7 | 0.0 | 5.5 |
| **Calcium (Ca)** | | mg/kg | 0.0 | 0.0 | | |

### POTENTIALLY TOXIC ELEMENTS

| | | | Amount | | Limit |
|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(g/tonne)** | **(kg/ha)** | **(kg/ha/yr)** |
| **Zinc** | 155.3 | mg/kg | 5.1 | 0.72 | 15.00 |
| **Copper** | 55.4 | mg/kg | 1.82 | 0.26 | 7.50 |
| **Nickel** | 155.0 | mg/kg | 5.08 | 0.72 | 3.00 |
| **Lead** | 1336.8 | mg/kg | 43.85 | 6.23 | 15.00 |
| **Cadmium** | 3.35 | mg/kg | 0.11 | 0.02 | 0.15 |
| **Chromium** | 31.0 | mg/kg | 1.02 | 0.14 | 15.00 |
| **Mercury** | 1.2 | mg/kg | 0.04 | 0.01 | 0.10 |
| **Arsenic** | 31.8 | mg/kg | 1.04 | 0.15 | 0.70 |
| **Aluminium** | 6600 | mg/kg | 216 | 30.7 | |
| **Iron** | 36413 | mg/kg | 1194 | 169.6 | |

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## Analysis of Elan Valley Sludge

**Date: 15/04/2026** Sample no. 8756809

| | |
|---|---|
| **Application rate (t/ha)** | **49** |
| **Application rate (t/acre)** | **19.6** |
| **pH** | **5.7** |
| **Dry solids (%)** | **3.3** |
| **Organic matter (%)** | **29.3** |

### NUTRIENT CONTENT

| | | | Total | | Available | |
|---|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(kg/tonne)** | **( kg/ha)** | **(kg/tonne)** | **( kg/ha)** |
| **Nitrogen (N)** | 0.65 | % | 0.21 | 10.4 | 0.006 | 0.3 |
| **Ammonium-N** | 187 | mg/kg | 0.01 | 0.3 | | |
| **Phosphorus (P)** | 1.78 | % | 0.58 | 28.6 | | |
| **Phosphate ($P_2O_5$)** | | | 1.33 | 65.2 | 0.7 | 32.6 |
| **Potassium (K)** | 0.05 | % | 0.02 | 0.9 | | |
| **Potash ($K_2O$)** | | | 0.02 | 1.0 | 0.0 | 0.9 |
| **Magnesium (Mg)** | 1439 | mg/kg | 0.05 | 2.3 | | |
| **Magnesium (MgO)** | | | 0.08 | 3.7 | 0.0 | 0.9 |
| **Sulphur (S)** | 4698 | mg/kg | 0.15 | 7.6 | | |
| **Sulphur ($SO_3$)** | | | 0.39 | 18.9 | 0.0 | 1.9 |
| **Calcium (Ca)** | | mg/kg | 0.0 | 0.0 | | |

### POTENTIALLY TOXIC ELEMENTS

| | | | Amount | | Limit |
|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(g/tonne)** | **(kg/ha)** | **(kg/ha/yr)** |
| **Zinc** | 155.3 | mg/kg | 5.1 | 0.25 | 15.00 |
| **Copper** | 55.4 | mg/kg | 1.82 | 0.09 | 7.50 |
| **Nickel** | 155.0 | mg/kg | 5.08 | 0.25 | 3.00 |
| **Lead** | 1336.8 | mg/kg | 43.85 | 2.15 | 15.00 |
| **Cadmium** | 3.35 | mg/kg | 0.11 | 0.01 | 0.15 |
| **Chromium** | 31.0 | mg/kg | 1.02 | 0.05 | 15.00 |
| **Mercury** | 1.2 | mg/kg | 0.04 | 0.00 | 0.10 |
| **Arsenic** | 31.8 | mg/kg | 1.04 | 0.05 | 0.70 |
| **Aluminium** | 6600 | mg/kg | 216 | 10.6 | |
| **Iron** | 36413 | mg/kg | 1194 | 58.5 | |

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## Analysis of Talybont Sludge

**Date: 11/11/2025** Sample no. 8591166

| | |
|---|---|
| **Application rate (t/ha)** | **250** |
| **Application rate (t/acre)** | **100.0** |
| **pH** | **5.9** |
| **Dry solids (%)** | **4.9** |
| **Organic matter (%)** | **39.2** |

### NUTRIENT CONTENT

| | | | Total | | Available | |
|---|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(kg/tonne)** | **( kg/ha)** | **(kg/tonne)** | **( kg/ha)** |
| **Nitrogen (N)** | 0.75 | % | 0.36 | 91.2 | 0.006 | 1.5 |
| **Ammonium-N** | 125.1 | mg/kg | 0.01 | 1.5 | | |
| **Phosphorus (P)** | 0.37 | % | 0.18 | 45.2 | | |
| **Phosphate ($P_2O_5$)** | | | 0.41 | 103.1 | 0.2 | 51.6 |
| **Potassium (K)** | 0.04 | % | 0.02 | 4.8 | | |
| **Potash ($K_2O$)** | | | 0.02 | 5.7 | 0.0 | 5.1 |
| **Magnesium (Mg)** | 827 | mg/kg | 0.04 | 10.1 | | |
| **Magnesium (MgO)** | | | 0.06 | 16.2 | 0.0 | 4.0 |
| **Sulphur (S)** | 4990 | mg/kg | 0.24 | 61.0 | | |
| **Sulphur ($SO_3$)** | | | 0.61 | 152.5 | 0.1 | 15.3 |
| **Calcium (Ca)** | | mg/kg | 0.0 | 0.0 | | |

### POTENTIALLY TOXIC ELEMENTS

| | | | Amount | | Limit |
|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(g/tonne)** | **(kg/ha)** | **(kg/ha/yr)** |
| **Zinc** | 185.0 | mg/kg | 9.0 | 2.26 | 15.00 |
| **Copper** | 31.8 | mg/kg | 1.56 | 0.39 | 7.50 |
| **Nickel** | 20.8 | mg/kg | 1.02 | 0.25 | 3.00 |
| **Lead** | 25.3 | mg/kg | 1.24 | 0.31 | 15.00 |
| **Cadmium** | 0.45 | mg/kg | 0.02 | 0.01 | 0.15 |
| **Chromium** | 17.6 | mg/kg | 0.86 | 0.22 | 15.00 |
| **Mercury** | 0.4 | mg/kg | 0.02 | 0.01 | 0.10 |
| **Arsenic** | 17.0 | mg/kg | 0.83 | 0.21 | 0.70 |
| **Aluminium** | 5930 | mg/kg | 290 | 72.5 | |
| **Iron** | 1560000 | mg/kg | 76284 | 19071.0 | |

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## Analysis of Talybont Sludge

**Date: 11/11/2025** Sample no. 8591166

| | |
|---|---|
| **Application rate (t/ha)** | **157** |
| **Application rate (t/acre)** | **62.8** |
| **pH** | **5.9** |
| **Dry solids (%)** | **4.9** |
| **Organic matter (%)** | **39.2** |

### NUTRIENT CONTENT

| | | | Total | | Available | |
|---|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(kg/tonne)** | **( kg/ha)** | **(kg/tonne)** | **( kg/ha)** |
| **Nitrogen (N)** | 0.75 | % | 0.36 | 57.3 | 0.006 | 1.0 |
| **Ammonium-N** | 125.1 | mg/kg | 0.01 | 1.0 | | |
| **Phosphorus (P)** | 0.37 | % | 0.18 | 28.4 | | |
| **Phosphate ($P_2O_5$)** | | | 0.41 | 64.8 | 0.2 | 32.4 |
| **Potassium (K)** | 0.04 | % | 0.02 | 3.0 | | |
| **Potash ($K_2O$)** | | | 0.02 | 3.6 | 0.0 | 3.2 |
| **Magnesium (Mg)** | 827 | mg/kg | 0.04 | 6.3 | | |
| **Magnesium (MgO)** | | | 0.06 | 10.2 | 0.0 | 2.5 |
| **Sulphur (S)** | 4990 | mg/kg | 0.24 | 38.3 | | |
| **Sulphur ($SO_3$)** | | | 0.61 | 95.8 | 0.1 | 9.6 |
| **Calcium (Ca)** | | mg/kg | 0.0 | 0.0 | | |

### POTENTIALLY TOXIC ELEMENTS

| | | | Amount | | Limit |
|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(g/tonne)** | **(kg/ha)** | **(kg/ha/yr)** |
| **Zinc** | 185.0 | mg/kg | 9.0 | 1.42 | 15.00 |
| **Copper** | 31.8 | mg/kg | 1.56 | 0.24 | 7.50 |
| **Nickel** | 20.8 | mg/kg | 1.02 | 0.16 | 3.00 |
| **Lead** | 25.3 | mg/kg | 1.24 | 0.19 | 15.00 |
| **Cadmium** | 0.45 | mg/kg | 0.02 | 0.00 | 0.15 |
| **Chromium** | 17.6 | mg/kg | 0.86 | 0.14 | 15.00 |
| **Mercury** | 0.4 | mg/kg | 0.02 | 0.00 | 0.10 |
| **Arsenic** | 17.0 | mg/kg | 0.83 | 0.13 | 0.70 |
| **Aluminium** | 5930 | mg/kg | 290 | 45.5 | |
| **Iron** | 1560000 | mg/kg | 76284 | 11976.6 | |

# DCWW

## Analysis of Llyswen sludge

**Date: 12/01/2026** Sample no. 8656098

| | |
|---|---|
| **Application rate (t/ha)** | **250** |
| **Application rate (t/acre)** | **100.0** |
| **pH** | **6.7** |
| **Dry solids (%)** | **5.1** |
| **Organic matter (%)** | **32.4** |

### NUTRIENT CONTENT

| | | | Total | | Available | |
|---|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(kg/tonne)** | **( kg/ha)** | **(kg/tonne)** | **( kg/ha)** |
| **Nitrogen (N)** | 1.01 | % | 0.51 | 127.8 | 0.01 | 2.0 |
| **Ammonium-N** | 156 | mg/kg | 0.01 | 2.0 | | |
| **Phosphorus (P)** | 0.23 | % | 0.12 | 29.2 | | |
| **Phosphate ($P_2O_5$)** | | | 0.27 | 66.6 | 0.1 | 33.3 |
| **Potassium (K)** | 0.09 | % | 0.05 | 11.8 | | |
| **Potash ($K_2O$)** | | | 0.06 | 14.2 | 0.1 | 12.8 |
| **Magnesium (Mg)** | 2580 | mg/kg | 0.13 | 32.6 | | |
| **Magnesium (MgO)** | | | 0.21 | 52.2 | 0.1 | 13.1 |
| **Sulphur (S)** | 4660 | mg/kg | 0.24 | 58.9 | | |
| **Sulphur ($SO_3$)** | | | 0.59 | 147.4 | 0.1 | 14.7 |
| **Calcium (Ca)** | | mg/kg | 0.0 | 0.0 | | |

### POTENTIALLY TOXIC ELEMENTS

| | | | Amount | | Limit |
|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(g/tonne)** | **(kg/ha)** | **(kg/ha/yr)** |
| **Zinc** | 204.0 | mg/kg | 10.3 | 2.58 | 15.00 |
| **Copper** | 64.9 | mg/kg | 3.28 | 0.82 | 7.50 |
| **Nickel** | 29.5 | mg/kg | 1.49 | 0.37 | 3.00 |
| **Lead** | 24.5 | mg/kg | 1.24 | 0.31 | 15.00 |
| **Cadmium** | 0.45 | mg/kg | 0.02 | 0.01 | 0.15 |
| **Chromium** | 17.8 | mg/kg | 0.90 | 0.23 | 15.00 |
| **Mercury** | 0.4 | mg/kg | 0.02 | 0.01 | 0.10 |
| **Arsenic** | 19.9 | mg/kg | 1.01 | 0.25 | 0.70 |
| **Aluminium** | 156000 | mg/kg | 7894 | 1973.4 | |
| **Iron** | 19000 | mg/kg | 961 | 240.4 | |

# DCWW

## Analysis of Llyswen sludge

**Date: 12/01/2026** Sample no. 8656098

| | |
|---|---|
| **Application rate (t/ha)** | **244** |
| **Application rate (t/acre)** | **97.6** |
| **pH** | **6.7** |
| **Dry solids (%)** | **5.1** |
| **Organic matter (%)** | **32.4** |

### NUTRIENT CONTENT

| | | | Total | | Available | |
|---|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(kg/tonne)** | **( kg/ha)** | **(kg/tonne)** | **( kg/ha)** |
| **Nitrogen (N)** | 1.01 | % | 0.51 | 124.7 | 0.01 | 1.9 |
| **Ammonium-N** | 156 | mg/kg | 0.01 | 1.9 | | |
| **Phosphorus (P)** | 0.23 | % | 0.12 | 28.5 | | |
| **Phosphate ($P_2O_5$)** | | | 0.27 | 65.0 | 0.1 | 32.5 |
| **Potassium (K)** | 0.09 | % | 0.05 | 11.6 | | |
| **Potash ($K_2O$)** | | | 0.06 | 13.9 | 0.1 | 12.5 |
| **Magnesium (Mg)** | 2580 | mg/kg | 0.13 | 31.9 | | |
| **Magnesium (MgO)** | | | 0.21 | 51.0 | 0.1 | 12.7 |
| **Sulphur (S)** | 4660 | mg/kg | 0.24 | 57.5 | | |
| **Sulphur ($SO_3$)** | | | 0.59 | 143.8 | 0.1 | 14.4 |
| **Calcium (Ca)** | | mg/kg | 0.0 | 0.0 | | |

### POTENTIALLY TOXIC ELEMENTS

| | | | Amount | | Limit |
|---|---|---|---|---|---|
| **TOTALS** | **result** | **units** | **(g/tonne)** | **(kg/ha)** | **(kg/ha/yr)** |
| **Zinc** | 204.0 | mg/kg | 10.3 | 2.52 | 15.00 |
| **Copper** | 64.9 | mg/kg | 3.28 | 0.80 | 7.50 |
| **Nickel** | 29.5 | mg/kg | 1.49 | 0.36 | 3.00 |
| **Lead** | 24.5 | mg/kg | 1.24 | 0.30 | 15.00 |
| **Cadmium** | 0.45 | mg/kg | 0.02 | 0.01 | 0.15 |
| **Chromium** | 17.8 | mg/kg | 0.90 | 0.22 | 15.00 |
| **Mercury** | 0.4 | mg/kg | 0.02 | 0.00 | 0.10 |
| **Arsenic** | 19.9 | mg/kg | 1.01 | 0.25 | 0.70 |
| **Aluminium** | 156000 | mg/kg | 7894 | 1926.0 | |
| **Iron** | 19000 | mg/kg | 961 | 234.6 | |