

Waste Interpretations – Noyadd Farm 2025

DCWW

Analysis of Elan Valley Sludge

Date: 15/07/2024

Sample no. 8033562

Application rate (t/ha)	250
Application rate (t/acre)	100.0
pH	7.6
Dry solids (%)	2.5
Organic matter (%)	33.5

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.72	%	0.18	45.5	0.006	1.5
Ammonium-N	242	mg/kg	0.01	1.5		
Phosphorus (P)	0.04	%	0.01	2.8		
Phosphate (P ₂ O ₅)			0.03	6.4	0.0	3.2
Potassium (K)	0.01	%	0.00	0.6		
Potash (K ₂ O)			0.00	0.8	0.0	0.7
Magnesium (Mg)	691	mg/kg	0.02	4.4		
Magnesium (MgO)			0.03	7.0	0.0	1.7
Sulphur (S)	1880	mg/kg	0.05	11.9		
Sulphur (SO ₃)			0.12	29.7	0.0	3.0
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	92.1	mg/kg	2.3	0.58	15.00
Copper	11.1	mg/kg	0.28	0.07	7.50
Nickel	21.9	mg/kg	0.55	0.14	3.00
Lead	6.2	mg/kg	0.16	0.04	15.00
Cadmium	0.11	mg/kg	0.00	0.00	0.15
Chromium	17.6	mg/kg	0.45	0.11	15.00
Mercury	1.6	mg/kg	0.04	0.01	0.10
Arsenic	40.1	mg/kg	1.01	0.25	0.70
Aluminium	1840	mg/kg	47	11.6	
Iron	363000	mg/kg	9184	2296.0	

DCWW

Analysis of Talybont Sludge

Date: 05/08/2024

Sample no. 8056967

Application rate (t/ha)	250
Application rate (t/acre)	100.0
pH	6.6
Dry solids (%)	3.0
Organic matter (%)	37.4

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	1.28	%	0.38	95.7	0.007	1.7
Ammonium-N	224	mg/kg	0.01	1.7		
Phosphorus (P)	0.36	%	0.11	27.2		
Phosphate (P ₂ O ₅)			0.25	62.0	0.1	31.0
Potassium (K)	0.03	%	0.01	2.2		
Potash (K ₂ O)			0.01	2.7	0.0	2.4
Magnesium (Mg)	557	mg/kg	0.02	4.2		
Magnesium (MgO)			0.03	6.7	0.0	1.7
Sulphur (S)	15300	mg/kg	0.46	114.4		
Sulphur (SO ₃)			1.14	285.9	0.1	28.6
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	161.0	mg/kg	4.8	1.20	15.00
Copper	46.0	mg/kg	1.38	0.34	7.50
Nickel	3.9	mg/kg	0.12	0.03	3.00
Lead	6.2	mg/kg	0.19	0.05	15.00
Cadmium	0.48	mg/kg	0.01	0.00	0.15
Chromium	4.3	mg/kg	0.13	0.03	15.00
Mercury	1.3	mg/kg	0.04	0.01	0.10
Arsenic	17.9	mg/kg	0.54	0.13	0.70
Aluminium	199000	mg/kg	5950	1487.5	
Iron	5400	mg/kg	161	40.4	

DCWW

Analysis of Court Farm Sludge Cake

Date: 31/03/2025

Sample no. MANU170886

Application rate (t/ha)	98
Application rate (t/acre)	39.2
pH	7.1
Dry solids (%)	20.2
Organic matter (%)	14.5

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.59	%	1.19	116.8	0.006	0.6
Ammonium-N	28.5	mg/kg	0.01	0.6		
Phosphorus (P)	0.14	%	0.29	28.4		
Phosphate (P ₂ O ₅)			0.66	64.8	0.3	32.4
Potassium (K)	0.06	%	0.13	12.6		
Potash (K ₂ O)			0.15	15.1	0.1	13.6
Magnesium (Mg)	1483	mg/kg	0.30	29.4		
Magnesium (MgO)			0.48	47.0	0.1	11.7
Sulphur (S)	1119	mg/kg	0.23	22.2		
Sulphur (SO ₃)			0.57	55.4	0.1	5.5
Calcium (Ca)	14527	mg/kg	2.9	287.6		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	50.2	mg/kg	10.1	0.99	15.00
Copper	21.2	mg/kg	4.28	0.42	7.50
Nickel	25.2	mg/kg	5.09	0.50	3.00
Lead	7.9	mg/kg	1.60	0.16	15.00
Cadmium	0.38	mg/kg	0.08	0.01	0.15
Chromium	30.3	mg/kg	6.12	0.60	15.00
Mercury	0.1	mg/kg	0.02	0.00	0.10
Arsenic	14.7	mg/kg	2.97	0.29	0.70
Aluminium	4810	mg/kg	972	95.2	
Iron	413246	mg/kg	83476	8180.6	

DCWW

Analysis of Court Farm Sludge Cake

Date: 31/03/2025

Sample no. MANU170886

Application rate (t/ha)	195
Application rate (t/acre)	78.0
pH	7.1
Dry solids (%)	20.2
Organic matter (%)	14.5

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.59	%	1.19	232.4	0.006	1.1
Ammonium-N	28.5	mg/kg	0.01	1.1		
Phosphorus (P)	0.14	%	0.29	56.6		
Phosphate (P ₂ O ₅)			0.66	129.0	0.3	64.5
Potassium (K)	0.06	%	0.13	25.1		
Potash (K ₂ O)			0.15	30.1	0.1	27.1
Magnesium (Mg)	1483	mg/kg	0.30	58.4		
Magnesium (MgO)			0.48	93.5	0.1	23.4
Sulphur (S)	1119	mg/kg	0.23	44.1		
Sulphur (SO ₃)			0.57	110.2	0.1	11.0
Calcium (Ca)	14527	mg/kg	2.9	572.2		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	50.2	mg/kg	10.1	1.98	15.00
Copper	21.2	mg/kg	4.28	0.84	7.50
Nickel	25.2	mg/kg	5.09	0.99	3.00
Lead	7.9	mg/kg	1.60	0.31	15.00
Cadmium	0.38	mg/kg	0.08	0.01	0.15
Chromium	30.3	mg/kg	6.12	1.19	15.00
Mercury	0.1	mg/kg	0.02	0.00	0.10
Arsenic	14.7	mg/kg	2.97	0.58	0.70
Aluminium	4810	mg/kg	972	189.5	
Iron	413246	mg/kg	83476	16277.8	