

Waste Interpretations – TPP 2026

DCWW

Analysis of Talybont Sludge

Date: 10/07/2025

Sample no. 8443884

Application rate (t/ha)	250
Application rate (t/acre)	100.0
pH	6.6
Dry solids (%)	6.8
Organic matter (%)	50.6

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.85	%	0.58	144.8	0.014	3.5
Ammonium-N	204	mg/kg	0.01	3.5		
Phosphorus (P)	0.17	%	0.12	29.2		
Phosphate (P ₂ O ₅)			0.27	66.7	0.1	33.3
Potassium (K)	0.03	%	0.02	5.2		
Potash (K ₂ O)			0.02	6.2	0.0	5.6
Magnesium (Mg)	640	mg/kg	0.04	10.9		
Magnesium (MgO)			0.07	17.4	0.0	4.4
Sulphur (S)	4730	mg/kg	0.32	80.4		
Sulphur (SO ₃)			0.80	201.0	0.1	20.1
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	146.0	mg/kg	9.9	2.48	15.00
Copper	64.7	mg/kg	4.40	1.10	7.50
Nickel	20.5	mg/kg	1.39	0.35	3.00
Lead	18.3	mg/kg	1.24	0.31	15.00
Cadmium	0.43	mg/kg	0.03	0.01	0.15
Chromium	12.7	mg/kg	0.86	0.22	15.00
Mercury	0.3	mg/kg	0.02	0.01	0.10
Arsenic	18.8	mg/kg	1.28	0.32	0.70
Aluminium	70100	mg/kg	4767	1191.7	
Iron	5090	mg/kg	346	86.5	

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Analysis of Talybont Sludge

Date: 10/07/2025

Sample no. 8443884

Application rate (t/ha)	138
Application rate (t/acre)	55.2
pH	6.6
Dry solids (%)	6.8
Organic matter (%)	50.6

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.85	%	0.58	80.0	0.014	1.9
Ammonium-N	204	mg/kg	0.01	1.9		
Phosphorus (P)	0.17	%	0.12	16.1		
Phosphate (P ₂ O ₅)			0.27	36.8	0.1	18.4
Potassium (K)	0.03	%	0.02	2.8		
Potash (K ₂ O)			0.02	3.4	0.0	3.1
Magnesium (Mg)	640	mg/kg	0.04	6.0		
Magnesium (MgO)			0.07	9.6	0.0	2.4
Sulphur (S)	4730	mg/kg	0.32	44.4		
Sulphur (SO ₃)			0.80	111.0	0.1	11.1
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	146.0	mg/kg	9.9	1.37	15.00
Copper	64.7	mg/kg	4.40	0.61	7.50
Nickel	20.5	mg/kg	1.39	0.19	3.00
Lead	18.3	mg/kg	1.24	0.17	15.00
Cadmium	0.43	mg/kg	0.03	0.00	0.15
Chromium	12.7	mg/kg	0.86	0.12	15.00
Mercury	0.3	mg/kg	0.02	0.00	0.10
Arsenic	18.8	mg/kg	1.28	0.18	0.70
Aluminium	70100	mg/kg	4767	657.8	
Iron	5090	mg/kg	346	47.8	

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Analysis of Talybont Sludge

Date: 10/07/2025

Sample no. 8443884

Application rate (t/ha)	86
Application rate (t/acre)	34.4
pH	6.6
Dry solids (%)	6.8
Organic matter (%)	50.6

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.85	%	0.58	49.8	0.014	1.2
Ammonium-N	204	mg/kg	0.01	1.2		
Phosphorus (P)	0.17	%	0.12	10.1		
Phosphate (P ₂ O ₅)			0.27	22.9	0.1	11.5
Potassium (K)	0.03	%	0.02	1.8		
Potash (K ₂ O)			0.02	2.1	0.0	1.9
Magnesium (Mg)	640	mg/kg	0.04	3.7		
Magnesium (MgO)			0.07	6.0	0.0	1.5
Sulphur (S)	4730	mg/kg	0.32	27.7		
Sulphur (SO ₃)			0.80	69.2	0.1	6.9
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	146.0	mg/kg	9.9	0.85	15.00
Copper	64.7	mg/kg	4.40	0.38	7.50
Nickel	20.5	mg/kg	1.39	0.12	3.00
Lead	18.3	mg/kg	1.24	0.11	15.00
Cadmium	0.43	mg/kg	0.03	0.00	0.15
Chromium	12.7	mg/kg	0.86	0.07	15.00
Mercury	0.3	mg/kg	0.02	0.00	0.10
Arsenic	18.8	mg/kg	1.28	0.11	0.70
Aluminium	70100	mg/kg	4767	409.9	
Iron	5090	mg/kg	346	29.8	

DCWW

Analysis of Llyswen sludge

Date: 20/06/2025

Sample no. 8420716

Application rate (t/ha)	250
Application rate (t/acre)	100.0
pH	7.3
Dry solids (%)	4.1
Organic matter (%)	31.7

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.90	%	0.37	92.8	0.00	0.1
Ammonium-N	6	mg/kg	0.00	0.1		
Phosphorus (P)	0.10	%	0.04	10.0		
Phosphate (P ₂ O ₅)			0.09	22.8	0.0	11.4
Potassium (K)	0.09	%	0.04	9.5		
Potash (K ₂ O)			0.05	11.4	0.0	10.3
Magnesium (Mg)	2990	mg/kg	0.12	30.7		
Magnesium (MgO)			0.20	49.2	0.0	12.3
Sulphur (S)	4660	mg/kg	0.19	47.9		
Sulphur (SO ₃)			0.48	119.7	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	154.0	mg/kg	6.3	1.58	15.00
Copper	38.4	mg/kg	1.58	0.39	7.50
Nickel	16.9	mg/kg	0.69	0.17	3.00
Lead	9.5	mg/kg	0.39	0.10	15.00
Cadmium	0.23	mg/kg	0.01	0.00	0.15
Chromium	11.7	mg/kg	0.48	0.12	15.00
Mercury	1.0	mg/kg	0.04	0.01	0.10
Arsenic	16.9	mg/kg	0.69	0.17	0.70
Aluminium	124000	mg/kg	5096	1274.1	
Iron	22900	mg/kg	941	235.3	

DCWW

Analysis of Elan Valley Sludge

Date: 10/07/2025

Sample no. 8443903

Application rate (t/ha)	250
Application rate (t/acre)	100.0
pH	7.0
Dry solids (%)	4.5
Organic matter (%)	34.0

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.88	%	0.39	98.6	0.020	5.0
Ammonium-N	442	mg/kg	0.02	5.0		
Phosphorus (P)	0.36	%	0.16	41.0		
Phosphate (P2O5)			0.37	93.4	0.2	46.7
Potassium (K)	0.04	%	0.02	4.4		
Potash (K2O)			0.02	5.3	0.0	4.7
Magnesium (Mg)	719	mg/kg	0.03	8.1		
Magnesium (MgO)			0.05	12.9	0.0	3.2
Sulphur (S)	3860	mg/kg	0.17	43.4		
Sulphur (SO3)			0.43	108.6	0.0	10.9
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	320.0	mg/kg	14.4	3.60	15.00
Copper	35.0	mg/kg	1.58	0.39	7.50
Nickel	22.9	mg/kg	1.03	0.26	3.00
Lead	62.9	mg/kg	2.83	0.71	15.00
Cadmium	0.49	mg/kg	0.02	0.01	0.15
Chromium	33.4	mg/kg	1.50	0.38	15.00
Mercury	0.5	mg/kg	0.02	0.01	0.10
Arsenic	45.6	mg/kg	2.05	0.51	0.70
Aluminium	4790	mg/kg	216	53.9	
Iron	404000	mg/kg	18180	4545.0	

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Analysis of Elan Valley Sludge

Date: 10/07/2025

Sample no. 8443903

Application rate (t/ha)	100
Application rate (t/acre)	40.0
pH	7.0
Dry solids (%)	4.5
Organic matter (%)	34.0

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.88	%	0.39	39.4	0.020	2.0
Ammonium-N	442	mg/kg	0.02	2.0		
Phosphorus (P)	0.36	%	0.16	16.4		
Phosphate (P ₂ O ₅)			0.37	37.3	0.2	18.7
Potassium (K)	0.04	%	0.02	1.8		
Potash (K ₂ O)			0.02	2.1	0.0	1.9
Magnesium (Mg)	719	mg/kg	0.03	3.2		
Magnesium (MgO)			0.05	5.2	0.0	1.3
Sulphur (S)	3860	mg/kg	0.17	17.4		
Sulphur (SO ₃)			0.43	43.4	0.0	4.3
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	320.0	mg/kg	14.4	1.44	15.00
Copper	35.0	mg/kg	1.58	0.16	7.50
Nickel	22.9	mg/kg	1.03	0.10	3.00
Lead	62.9	mg/kg	2.83	0.28	15.00
Cadmium	0.49	mg/kg	0.02	0.00	0.15
Chromium	33.4	mg/kg	1.50	0.15	15.00
Mercury	0.5	mg/kg	0.02	0.00	0.10
Arsenic	45.6	mg/kg	2.05	0.21	0.70
Aluminium	4790	mg/kg	216	21.6	
Iron	404000	mg/kg	18180	1818.0	

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Analysis of Elan Valley Sludge

Date: 10/07/2025

Sample no. 8443903

Application rate (t/ha)	61
Application rate (t/acre)	24.4
pH	7.0
Dry solids (%)	4.5
Organic matter (%)	34.0

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.88	%	0.39	24.0	0.020	1.2
Ammonium-N	442	mg/kg	0.02	1.2		
Phosphorus (P)	0.36	%	0.16	10.0		
Phosphate (P ₂ O ₅)			0.37	22.8	0.2	11.4
Potassium (K)	0.04	%	0.02	1.1		
Potash (K ₂ O)			0.02	1.3	0.0	1.2
Magnesium (Mg)	719	mg/kg	0.03	2.0		
Magnesium (MgO)			0.05	3.2	0.0	0.8
Sulphur (S)	3860	mg/kg	0.17	10.6		
Sulphur (SO ₃)			0.43	26.5	0.0	2.6
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	320.0	mg/kg	14.4	0.88	15.00
Copper	35.0	mg/kg	1.58	0.10	7.50
Nickel	22.9	mg/kg	1.03	0.06	3.00
Lead	62.9	mg/kg	2.83	0.17	15.00
Cadmium	0.49	mg/kg	0.02	0.00	0.15
Chromium	33.4	mg/kg	1.50	0.09	15.00
Mercury	0.5	mg/kg	0.02	0.00	0.10
Arsenic	45.6	mg/kg	2.05	0.13	0.70
Aluminium	4790	mg/kg	216	13.1	
Iron	404000	mg/kg	18180	1109.0	

Analysis of Biogen Digestate

Date: 12/08/2025

Sample no. BP ST 12/08/25

Application rate (t/ha)	20
Application rate (t/acre)	8.0
pH	8.8
Dry solids (%)	6.55
Organic matter content (%)	3.5
conductivity (µS/cm)	

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	1.07	%	10.70	214.0	8.08	161.5
Ammonium-N	8077	mg/kg	8.08	161.5		
Phosphorus (P)	724	mg/kg	0.72			
Phosphate (P ₂ O ₅)			1.65	33.0	0.83	16.5
Potassium (K)	3911	mg/kg	3.91			
Potash (K ₂ O)			4.69	93.9	4.22	84.5
Magnesium (Mg)	38.4	mg/kg	0.04			
Magnesium (MgO)			0.06	1.2	0.01	0.2
Sulphur (S)	612	mg/kg	0.61			
Sulphur (SO ₃)			1.53	30.6	0.31	6.1

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	14.4	mg/kg	14.4	0.29	15.00
Copper	2.91	mg/kg	2.9	0.06	7.50
Nickel	2.50	mg/kg	2.5	0.05	3.00
Lead	0.50	mg/kg	0.5	0.01	15.00
Cadmium	0.03	mg/kg	0.0	0.00	0.15
Chromium	0.94	mg/kg	0.9	0.02	15.00
Mercury	0.05	mg/kg	0.1	0.00	0.10

Analysis of Biogen Digestate

Date: 12/08/2025

Sample no. BP ST 12/08/25

Application rate (t/ha)	7
Application rate (t/acre)	2.8
pH	8.8
Dry solids (%)	6.55
Organic matter content (%)	3.5
conductivity (µS/cm)	

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	1.07	%	10.70	74.9	8.08	56.5
Ammonium-N	8077	mg/kg	8.08	56.5		
Phosphorus (P)	724	mg/kg	0.72			
Phosphate (P ₂ O ₅)			1.65	11.6	0.83	5.8
Potassium (K)	3911	mg/kg	3.91			
Potash (K ₂ O)			4.69	32.9	4.22	29.6
Magnesium (Mg)	38.4	mg/kg	0.04			
Magnesium (MgO)			0.06	0.4	0.01	0.1
Sulphur (S)	612	mg/kg	0.61			
Sulphur (SO ₃)			1.53	10.7	0.31	2.1

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	14.4	mg/kg	14.4	0.10	15.00
Copper	2.91	mg/kg	2.9	0.02	7.50
Nickel	2.50	mg/kg	2.5	0.02	3.00
Lead	0.50	mg/kg	0.5	0.00	15.00
Cadmium	0.03	mg/kg	0.0	0.00	0.15
Chromium	0.94	mg/kg	0.9	0.01	15.00
Mercury	0.05	mg/kg	0.1	0.00	0.10