YELSPA LTD FAULKNERS DOWN HOUSE PICKET PIECE ANDOVER HAMPSHIRE SP11 6LZ	YELSPA LTD DIGESTATE

T302

Please quote above code for all enquiries

DIGESTATE ANALYSIS RESULTS (Metric Units)

Sample Reference : MULCH FRESH DIG C

Sample Matrix : DIGESTATE

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	83945
Sample Number	149787

Date Received	14-AUG-2023
Date Reported	17-AUG-2023

ANALYTICAL RESULTS

Determinand on a DM basis unless otherwise indicated	Units	Result	Amount per fresh tonne	Amount applied at an equivalent total Nitrogen application of 250 kg N/ha	Units
pH 1:6 [Fresh]		9.11			
Oven Dry Matter	%	27.4	274.00	17361	kg DM
Total Nitrogen	% w/w	1.44	3.95	250	kg N
Ammonium Nitrogen	mg/kg	2105	0.58	36.55	kg NH4-N
Nitrate Nitrogen	mg/kg	<10	< 0.01		kg NO3-N
Total Phosphorus (P)	% w/w	0.335	2.10	133.19	kg P2O5
Total Potassium (K)	% w/w	2.34	7.69	487.50	kg K2O
Total Magnesium (Mg)	% w/w	0.178	0.81	51.30	kg MgO
Total Sulphur (S)	% w/w	0.203	1.39	88.11	kg SO3
Total Copper (Cu)	mg/kg	5.86	< 0.01		kg Cu
Total Zinc (Zn)	mg/kg	29.5	0.01	0.51	kg Zn
Total Sodium (Na)	% w/w	0.034	0.13	7.96	kg Na2O
Total Calcium (Ca)	mg/kg	5376	1.47	93.33	kg Ca
Equivalent field application rate		—	1.00	63.36	tonnes/ha

The above equivalent field application rate for total nitrogen of 250 kg/ha has been provided purely for guidance purposes only. Organic manures should be used in accordance with the Defra Code of Good Agricultural Practice and where required within the specific regulatory guidance for the spreading of that material to land. To get the most benefit from your organic manures it is recommended that you follow the principles as set out in Defra's Fertiliser Manual (RB209) or as directed by a FACTS qualified adviser.

Released by ..... *Teresa Clyne* ..... Date ..... *17/08/23* .....

YELSPA LTD FAULKNERS DOWN HOUSE PICKET PIECE ANDOVER HAMPSHIRE SP11 6LZ	YELSPA LTD DIGESTATE

T302

Please quote above code for all enquiries

DIGESTATE ANALYSIS RESULTS (Metric Units)

Sample Reference : OLD DIGESTATE A

Sample Matrix : DIGESTATE

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	83945
Sample Number	149788

Date Received	14-AUG-2023
Date Reported	17-AUG-2023

ANALYTICAL RESULTS

Determinand on a DM basis unless otherwise indicated	Units	Result	Amount per fresh tonne	Amount applied at an equivalent total Nitrogen application of 250 kg N/ha	Units
pH 1:6 [Fresh]		8.45			
Oven Dry Matter	%	14.2	142.00	6964	kg DM
Total Nitrogen	% w/w	3.59	5.10	250	kg N
Ammonium Nitrogen	mg/kg	169	0.02	1.18	kg NH4-N
Nitrate Nitrogen	mg/kg	887	0.13	6.18	kg NO3-N
Total Phosphorus (P)	% w/w	1.05	3.41	167.44	kg P2O5
Total Potassium (K)	% w/w	3.65	6.22	305.01	kg K2O
Total Magnesium (Mg)	% w/w	0.543	1.28	62.77	kg MgO
Total Sulphur (S)	% w/w	0.384	1.36	66.85	kg SO3
Total Copper (Cu)	mg/kg	12.1	< 0.01		kg Cu
Total Zinc (Zn)	mg/kg	74.1	0.01	0.52	kg Zn
Total Sodium (Na)	% w/w	0.037	0.07	3.47	kg Na2O
Total Calcium (Ca)	mg/kg	13020	1.85	90.67	kg Ca
Equivalent field application rate		—	1.00	49.04	tonnes/ha

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Released by ..... *Teresa Clyne* ..... Date ..... *17/08/23* .....

YELSPA LTD FAULKNERS DOWN HOUSE PICKET PIECE ANDOVER HAMPSHIRE SP11 6LZ	T302

Please quote above code for all enquiries

YELSPA LTD

DIGESTATE

DIGESTATE ANALYSIS RESULTS (Metric Units)

Sample Reference : OLD DIGESTATE B

Sample Matrix : DIGESTATE

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	83945
Sample Number	149789

Date Received	14-AUG-2023
Date Reported	17-AUG-2023

ANALYTICAL RESULTS

Determinand on a DM basis unless otherwise indicated	Units	Result	Amount per fresh tonne	Amount applied at an equivalent total Nitrogen application of 250 kg N/ha	Units
pH 1:6 [Fresh]		9.07			
Oven Dry Matter	%	21.6	216.00	7163	kg DM
Total Nitrogen	% w/w	3.49	7.54	250	kg N
Ammonium Nitrogen	mg/kg	3153	0.68	22.59	kg NH4-N
Nitrate Nitrogen	mg/kg	<10	< 0.01		kg NO3-N
Total Phosphorus (P)	% w/w	0.715	3.54	117.29	kg P2O5
Total Potassium (K)	% w/w	4.49	11.64	385.96	kg K2O
Total Magnesium (Mg)	% w/w	0.343	1.23	40.79	kg MgO
Total Sulphur (S)	% w/w	0.348	1.88	62.32	kg SO3
Total Copper (Cu)	mg/kg	11.6	< 0.01		kg Cu
Total Zinc (Zn)	mg/kg	62.6	0.01	0.45	kg Zn
Total Sodium (Na)	% w/w	0.046	0.13	4.44	kg Na2O
Total Calcium (Ca)	mg/kg	11167	2.41	79.99	kg Ca
Equivalent field application rate		—	1.00	33.16	tonnes/ha

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Released by ..... *Teresa Clyne* ..... Date ..... *17/08/23* .....

How does your sample analysis compare with the 'standard' figures for organic manures?

Farmyard Manure	Dry Matter (% DM)	Total Nitrogen (Kg N/t)	Total Phosphate (Kg P2O5/t)	Total Potash (Kg K2O/t)	Total Sulphur (Kg SO3/t)	Total Magnesium (Kg MgO/t)
Cattle FYM	25	6.0	3.2	9.4	2.4	1.8
Pig FYM	25	7.0	6.0	8.0	3.4	1.8
Sheep FYM	25	7.0	3.2	8.0	4.0	2.8
Duck FYM	25	6.5	5.5	7.5	2.6	2.4
Horse FYM	25	5.0	5.0	6.0	1.6	1.5
Goat FYM	40	9.5	4.5	12.0	2.8	1.8

Notes: The 'standard' phosphate & potash availability figures to the next crop grown from Defra's Fertiliser Manual are 60% & 90% respectively.

Poultry Manure	Dry Matter (% DM)	Total Nitrogen (Kg N/t)	Total Phosphate (Kg P2O5/t)	Total Potash (Kg K2O/t)	Total Sulphur (Kg SO3/t)	Total Magnesium (Kg MgO/t)
	20	9.4	8.0	8.5	3.0	2.7
	40	19.0	12.0	15.0	5.6	4.3
	60	28.0	17.0	21.0	8.2	5.9
	80	37.0	21.0	27.0	11.0	7.5

Notes: The 'standard' phosphate & potash availability figures to the next crop grown from Defra's Fertiliser Manual are 60% & 90% respectively.

Cattle & Pig Slurries	Dry Matter (% DM)	Total Nitrogen (Kg N/m3)	Total Phosphate (Kg P2O5/m3)	Total Potash (Kg K2O/m3)	Total Sulphur (Kg SO3/m3)	Total Magnesium (Kg MgO/m3)
Cattle slurry	6.0	2.6	1.2	2.5	0.7	0.6
Dirty water (from cattle)	0.5	0.5	0.1	1.0	0.1	0.1
Separated cattle slurries						
- strainer box liquid	1.5	1.5	0.3	1.5	ND	ND
- weeping wall liquid	3.0	2.0	0.5	2.3	ND	ND
- mechanically separated liquid	4.0	3.0	1.2	2.8	ND	ND
- solid portion after separation	20.0	4.0	2.0	3.3	ND	ND
Pig slurry	4.0	3.6	1.5	2.2	0.7	0.7
Separated pig slurry - liquid	3.0	3.6	1.1	2.0	ND	ND
Separated pig slurry - solid	20.0	5.0	3.7	2.0	ND	ND

Notes: ND = no data.
The 'standard' phosphate & potash availability figures to the next crop grown from Defra's Fertiliser Manual are 50% & 90% respectively (50% & 100% for dirty water).

Biosolids	Dry Matter (% DM)	Total Nitrogen (Kg N/t)	Total Phosphate (Kg P2O5/t)	Total Potash (Kg K2O/t)	Total Sulphur (Kg SO3/t)	Total Magnesium (Kg MgO/t)
Digested cake	25	11.0	11.0	0.6	8.2	1.6
Thermally dried	95	40.0	55.0	2.0	23.0	6.0
Lime stablised	25	8.5	7.0	0.8	7.4	2.4
Composted	40	11.0	10.0	3.0	6.1	2.0

Notes: The 'standard' phosphate & potash availability figures to the next crop grown from Defra's Fertiliser Manual are 50% & 90% respectively.

Other Organic Manures	Dry Matter	Total Nitrogen	Total Phosphate	Total Potash	Total Sulphur	Total Magnesium
Composts	(% DM)	(Kg N/t)	(Kg P2O5/t)	(Kg K2O/t)	(Kg SO3/t)	(Kg MgO/t)
Green compost	60	7.5	3.0	6.8	3.4	3.4
Green/food compost	60	11.0	4.9	8.0	5.1	3.4
Mushroom compost	35	6.0	5.0	9.0	ND	ND
Digestates						
Food-based whole	4.1	4.8	1.1	2.4	0.7	0.2
Food-based separated liquor	3.8	4.5	1.0	2.8	1.0	0.2
Food-based separated fibre	27.0	8.9	10.2	3.0	4.0	2.2
Farm-sourced whole	5.5	3.6	1.7	4.0	0.8	0.6
Farm-sourced separated liquor	3.0	1.9	0.6	2.5	<0.1	0.4
Farm-sourced separated fibre	24.0	5.6	4.7	6.0	1.2	1.8
Paper Crumble						
Chemically / physically treated	40	2.0	0.4	0.2	0.6	1.4
Biologically treated	30	7.5	3.8	0.4	2.4	1.0
Water Treatment Cake						
Water treatment cake	25	2.4	3.4	0.4	5.5	0.8
Food industry 'wastes'	(% DM)	(Kg N/m3)	(Kg P2O5/m3)	(Kg K2O/m3)	(Kg SO3/m3)	(Kg MgO/m3)
Dairy waste	4	1.0	0.8	0.2	ND	ND
Soft drinks waste	4	0.3	0.2	Trace	ND	ND
Brewing waste	7	2.0	0.8	0.2	ND	ND
General food waste	5	1.6	0.7	0.2	ND	ND

Notes: ND = no data.

The 'standard' figures for the above organic manures have been taken from Defra's Fertiliser Manual 2017 (RB209) 9th edition and the corresponding PLANET version 3 software. Further information on fertiliser recommendations for organic manures can be obtained from the Fertiliser Manual or from a FACTS qualified adviser.