

Olus  
 Winterpick Business Park  
 Hurstpierpoint Road  
 Wineham, nr Henfield  
 West Sussex BN5 9BJ

**ANALYSIS REPORT ~ COMPOSTED MATERIAL**

**Customer information**

Composting site Winterpick Business Site  
 Grade (particle size range) 0 - 10mm  
 Grade type Principal  
 CA's code 0216  
 Date sampled  
 Batch age when sampled 12 weeks  
 Producer's sample code 01-28-10 PRIN

**Laboratory information**

Received at lab 23 Sep 2010  
 Lab sample ref. 101806  
 Lab batch number 16308  
 Lab report code  
 Report by S. Johnson  
 Report date 29 Oct 2010  
 Report number ATLL16308#1

**Plant growth results reported 23 Nov 2010**

**SUMMARY ~ PAS 100 "PASS" OR "FAIL"**

Parameter	Result	PAS 100 upper	Unit	Pass or Fail	Method Reference
E. coli	400	1000	CFU/g	Pass	BS ISO 11866-3
Salmonella spp	0	0	MPN in 25 g	Pass	BS EN ISO 6579
Cadmium as Cd	0.4	1.50	mg/kg	Pass	BS EN 13652
Chromium as Cr	14	100.00	mg/kg	Pass	BS EN 13652
Copper as Cu	37	200.00	mg/kg	Pass	BS EN 13652
Lead as Pb	75	200.00	mg/kg	Pass	BS EN 13652
Mercury as Hg	0.2	1.00	mg/kg	Pass	BS ISO 16772
Nickel as Ni	9	50.00	mg/kg	Pass	BS EN 13652
Zinc as Zn	133	400.00	mg/kg	Pass	BS EN 13652
CO <sub>2</sub> (stability)	10.4	16.0	mg /g OM / d	Pass	WRAP ORG0020
Weed plants	0.00	0	number growing	Pass	PAS100:2010
Glass, metal, plastic, other	0.20	0.50	% of 'air-dry' sample > 2 mm	Pass	PAS100:2005, Annex E
Plastic	0.00	0.25		Pass	
Stones in "mulch"	4.05	16	% of 'air-dry' sample > 4 mm	Pass	
Stones in other than "mulch"	4.05	8		Pass	

Parameter	Result	PAS 100	Unit	Pass or Fail	Method Reference
Plants germinated	96.5	80	no. of plants, tests as % of controls	Pass	PAS100:2010
Plant top growth	138.9	80	average g / plant, tests as % of controls	Pass	

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Detailed analysis: refer to spreadsheet sub-sections  
 Fertiliser nutrient comparisons: refer to sub-section 'TotalNs'.

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**WATER EXTRACTABLE NUTRIENTS<sup>1</sup>**

Parameter	As received (fresh)		In dry matter		Method Reference	Plant significance
	Result	Units	Result	Units		
NH <sub>4</sub> -N (ammonium-N)		mg/l		mg/kg	BS EN 13652	Primary nutrients
NO <sub>3</sub> -N (nitrate-N)		mg/l		mg/kg	BS EN 13652	
NH <sub>4</sub> -N plus NO <sub>3</sub> -N		mg/l		mg/kg	Calculated	
Phosphorus as P		mg/l		mg/kg	BS EN 13652	
Potassium as K		mg/l		mg/kg	BS EN 13652	
Calcium as Ca		mg/l		mg/kg	BS EN 13652	Secondary nutrients
Magnesium as Mg		mg/l		mg/kg	BS EN 13652	
Sulphur as S		mg/l		mg/kg	BS EN 13652	
Boron as B		mg/l		mg/kg	BS EN 13652	Trace nutrients
Copper as Cu		mg/l		mg/kg	BS EN 13652	
Iron as Fe		mg/l		mg/kg	BS EN 13652	
Manganese as Mn		mg/l		mg/kg	BS EN 13652	
Molybdenum as Mo		mg/l		mg/kg	BS EN 13652	
Zinc as Zn		mg/l		mg/kg	BS EN 13652	
Chloride as Cl		mg/l		mg/kg	BS EN 13652	
Sodium as Na <sup>2</sup>		mg/l		mg/kg	BS EN 13652	

1 Water extractable values are a measure of nutrient concentrations immediately available to plants.

2 Sodium together with chloride, influences nutrient uptake by plants and can inhibit this at high concentrations.

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**CAT-EXTRACTABLE NUTRIENTS<sup>1,2</sup>**

Parameter	As received (fresh)		In dry matter		Method Reference	Plant significance
	Result	Units	Result	Units		
NH <sub>4</sub> -N (ammonium-N)		mg/l		mg/kg	BS EN 13651	Primary nutrients
NO <sub>3</sub> -N (nitrate-N)		mg/l		mg/kg	BS EN 13651	
NH <sub>4</sub> -N plus NO <sub>3</sub> -N		mg/l		mg/kg	BS EN 13651	
		% m/m		% m/m	Calculated	
Phosphorus as P		mg/l		mg/kg	BS EN 13651	Secondary nutrients
Potassium as K		mg/l		mg/kg	BS EN 13651	
Magnesium as Mg		mg/l		mg/kg	BS EN 13651	Trace nutrients
Sulphur S		mg/l		mg/kg	BS EN 13651	
Boron as B		mg/l		mg/kg	BS EN 13651	
Copper as Cu		mg/l		mg/kg	BS EN 13651	
Iron as Fe		mg/l		mg/kg	BS EN 13651	
Manganese as Mn		mg/l		mg/kg	BS EN 13651	
Molybdenum as Mo		mg/l		mg/kg	BS EN 13651	
Zinc as Zn		mg/l		mg/kg	BS EN 13651	
Sodium as Na <sup>3</sup>		mg/l		mg/kg	BS EN 13651	See footnote

1 See note k to Table C.1 in Annex C of PAS100:2005, for information about CAT-extractable nutrients results.

2 Calcium and chloride are not determined as these are in the extractant and would affect corresponding results.

3 Sodium, together with chloride, influences nutrient uptake by plants and can inhibit this at high concentrations.

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**TOTAL NUTRIENTS<sup>1</sup>**

Parameter	As received (fresh)		In dry matter		Method Reference	Plant significance
	Result	Units	Result	Units		
Nitrogen as N		mg/litre		mg/kg	Modified Kjeldahl, BS EN 13654-1	Primary nutrients
		% m/m		% m/m		
	ND	mg/litre	ND	mg/kg	Dumas, BS EN 13654-2 <sup>2</sup>	
	ND	% m/m	ND	% m/m		
Phosphorus as P		mg/litre		mg/kg	BS EN 13650	
		% m/m		% m/m	BS EN 13650	
Potassium as K		mg/litre		mg/kg	BS EN 13650	
		% m/m		% m/m	BS EN 13650	
Calcium as Ca		mg/litre		mg/kg	BS EN 13650	Secondary nutrients
		% m/m		% m/m	BS EN 13650	
Magnesium as Mg		mg/litre		mg/kg	BS EN 13650	
		% m/m		% m/m	BS EN 13650	
Sulphur as S		mg/litre		mg/kg	BS EN 13650	
		% m/m		% m/m	BS EN 13650	
Boron as B		mg/litre		mg/kg	BS EN 13650	Trace nutrients
Copper as Cu		mg/litre		mg/kg	BS EN 13650	
Iron as Fe		mg/litre		mg/kg	BS EN 13650	
Manganese as Mn		mg/litre		mg/kg	BS EN 13650	
Molybdenum as Mo		mg/litre		mg/kg	BS EN 13650	
Zinc as Zn		mg/litre		mg/kg	BS EN 13650	
Sodium as Na		mg/litre		mg/kg	BS EN 13650	

1 This method uses a hydrochloric- and nitric-acid extractant ("aqua regia") and approximates "total" rather than "bioavailable" concentrations of the above elements.

2 Unsuitable for materials containing free ammonia because this may be lost when samples are flushed with oxygen during the procedure, e.g. if compost sample contains > 500 mg/l ammonium.

3 Together with chloride, influences nutrient uptake by plants and can inhibit this at high concentrations.

ND - not determined.

**For comparison with fertilisers (sample as received basis):**

Total Nitrogen as N, % m/m  
Total P2O5, % m/m as P  
Total K2O, % m/m as K  
Total CaO, % m/m as Ca  
Total MgO, % m/m as Mg  
Total SO3, % m/m as S

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#### POTENTIALLY TOXIC ELEMENTS<sup>1</sup>

Parameter	As received (fresh)		In dry matter				Method reference
	Result	Unit	Result	100 upper limit	Unit	Pass or Fail	
Arsenic as As	ND	mg/l	ND	N/A	mg/kg	N/A	
Cadmium as Cd	0.1	mg/l	0.4	1.50	mg/kg	Pass	BS EN 13650
Chromium as Cr	3.1	mg/l	14	100.00	mg/kg	Pass	BS EN 13650
Copper as Cu	8.3	mg/l	37	200.00	mg/kg	Pass	BS EN 13650
Fluoride as F	ND	mg/l	ND	N/A	mg/kg	N/A	
Lead as Pb	17	mg/l	75	200.00	mg/kg	Pass	BS EN 13650
Mercury as Hg	0.04	mg/l	0.2	1.00	mg/kg	Pass	BS ISO 16772
Molybdenum as Mo	0.2	mg/l	1.1	N/A	mg/kg	N/A	BS EN 13650
Nickel as Ni	2.0	mg/l	9.0	50.00	mg/kg	Pass	BS EN 13650
Selenium as Se	ND	mg/l	ND	N/A	mg/kg	N/A	
Zinc as Zn	30	mg/l	133	400.00	mg/kg	Pass	BS EN 13650

1 Zinc and copper are required by plants but, similarly as with other PTEs, can be toxic to some plant species at high concentrations. Such effects are influenced by other factors, so may not necessarily occur if corresponding PTE upper limits are exceeded. Check plant response test results for any toxic effects.

ND - not determined, N/A - not applicable.

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**PHYSICO-CHEMICAL PROPERTIES**

Parameter	As received (fresh)		In dry matter		Method Reference
	Result	Unit	Result	Unit	
Bulk Density <sup>1</sup>	412	g/l	223	g/l	BS EN 12580
Dry Matter	N/A		54.2	% m/m	BS EN 13040
Moisture	189	g/l	N/A		BS EN 13040
	45.8	% m/m	N/A		
Loss on ignition <sup>2</sup>	71.3	% m/m	47.0	% m/m	BS EN 13039
Organic Carbon (LOI ÷ 1.72)	N/A		27.4	% m/m	Calculated
pH	7.4	pH units	N/A		BS EN 13037
Electrical Conductivity	605	µS/cm @ 20 °C	N/A		BS EN 13038
	60.5	mS/m @ 20 °C	N/A		
Liming potential <sup>3</sup>	ND	% m/m CaO	N/A		

1 Bulk density in dry matter is termed 'Dry Weight Density' and expressed in (g/l).  
 DWD = fresh bulk density (g/l) - volumetric moisture content (g/l)

2 Loss on ignition as received is a measure of organic matter plus moisture.  
 Loss on ignition in dry matter is a measure of organic matter.

3 'The Fertilisers (Sampling and Analysis) Regulations 1996' Schedule 2, Part II Section 6 -  
 'Determination of the neutralising value of liming materials.' Method adaptation: the stage of  
 passing the sample through a 1 mm sieve is omitted and results are expressed as % by weight  
 of CaO on the undried sample, as received.

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**PATHOGENS**

Parameter	As received (fresh)				Method Reference
	Result	PAS 100 upper limit	Unit	Pass or Fail	
<i>E. coli</i> at 44 °C.	400	1000	CFU/g	Pass	BS ISO 11866-3
<i>Salmonella spp</i> at 37 °C	0	0	MPN in 25 g	Pass	BS EN ISO 6579

**STABILITY / MATURITY**

Parameter	As received (fresh)				Method Reference
	Result	PAS 100 upper	Unit	Pass or Fail	
Carbon dioxide (evolution rate)	10.4	16.0	mg CO <sub>2</sub> / g organic matter / day	Pass	WRAP ORG0020
Proportion of particles < 20 mm	N/D	N/A	% g/g	N/A	

Parameter	As received (fresh)		In dry matter		Method Reference
	Result	Units	Result	Units	
NH <sub>4</sub> -N : NO <sub>3</sub> -N (ratio)		:1		:1	Calculated
Carbon : Nitrogen (ratio)	N/A			:1	Calculated
Self-heating (Dewar flask)	ND	Max °C increase	N/A		See footnote 1
Nitrogen Drawdown Index	ND	None	N/A		AS 3743-2003 <sup>2</sup>

1 Methods book for the analysis of compost, Bundesgütegemeinschaft Kompost e. V., 2002. ISBN 3-928179-33-0 (English translation, 2003).

2 Australian standard - potting mixes, appendix E. Indicates likelihood of nitrogen lock-up.

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**PLANT RESPONSE ~ GERMINATION AND GROWTH OF TOMATO PLANTS AND WEEDS**

**Method as per PAS 100:2010**

Parameter	Peat unamended	Compost unamended	Unit					
Quantity 'Selected before sieving'			g					
Quantity 'Sieved, particles < 10 mm'			g					
Proportion of particles < 10 mm	100	99.6	% g/g					
Electrical conductivity	50	660	$\mu\text{S cm}^{-1}$					
Parameter	Peat control For 3 trays	Compost-peat test For 3 trays	Unit					
Quantity of sieved peat			litres prepared					
Quantity of sieved compost			litres prepared					
Substrate(s) ratio (vol : vol)		2.0:1.0	peat:compost					
Parameter	Peat control			Compost-peat test			Overall	Unit
	Tray 1	Tray 2	Tray 3	Tray 1	Tray 2	Tray 3		
<b>Weed plants</b>	0	0	0	0	0	0	<b>0.0</b>	per litre
PAS 100 upper limit							0.0	compost as
<b>Pass or Fail</b>							<b>Pass</b>	received
<b>Germinated tomato plants</b>								
10 days after sowing	9	9	9	7	10	9	96.3	tests as % of
14 days after sowing	10	9	10	9	10	9	96.6	controls
28 days after sowing	10	9	10	9	10	9	96.6	
PAS 100 minimum performance							80.0	
<b>Pass or Fail</b>							<b>Pass</b>	<b>96.5</b>
<b>Tomato plant top growth 28 days after</b>								
Total mass per tray (g)	40.04	24.98	37.15	43.77	51.54	41.04	133.5	tests as % of
Average mass per plant (g)	4.00	2.78	3.72	4.86	5.15	4.56	138.9	controls
PAS 100 minimum performance							80.0	
<b>Pass or Fail</b>							<b>Pass</b>	<b>138.9</b>
<b>Observations at any time during test</b>								
Abnormalities / disease symptoms								
Additional factors								

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**PHYSICAL CONTAMINANTS (air-dry sample)**

Sieve apertures	Glass	Metal	Plastic	Other <sup>2</sup>	Description	Total <sup>3</sup>	of which	Stones <sup>5</sup>	Method Reference
mm	g	g	g	g		g	g	g	
31.5						0.00			PAS 100:2005, Annex E <sup>1</sup>
16.0						0.00			
8.0						0.00			
4.0						0.00		4.97	
2.0	0.24					0.24		2.40	
1.0	ND	ND	ND	ND	N/A	ND	ND	ND	
Pan	ND	ND	ND	ND	N/A	ND	ND	ND	
<b>% of total sample &gt; 2 mm</b>	<b>0.20</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		<b>0.20</b>	<b>0.00</b>	N/A	
<b>% of total sample &gt; 4 mm</b>	N/A	N/A	N/A	N/A		N/A	N/A	<b>4.05</b>	
PAS 100 upper limit for "mulch"			<b>0.25</b>			<b>0.50</b>		<b>16.0</b>	
<b>Pass or Fail</b>			<b>Pass</b>			<b>Pass</b>		<b>Pass</b>	
limit for other than "mulch"			<b>0.25</b>			<b>0.50</b>		<b>8.0</b>	
<b>Pass or Fail</b>			<b>Pass</b>			<b>Pass</b>		<b>Pass</b>	

1 State whether with modification, i.e. sieves added or omitted

2 Any different physical contaminant type; name in 'Description'

3 'Total' is for glass, metal, plastic and 'other'. N.B.: excludes stones

4 Sharps > 2 mm, of any inorganic physical contaminant type (excludes woody fragments)

5 Stones and other consolidated mineral contaminants

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**PARTICLE SIZE DISTRIBUTION (air-dry sample)**

Sieve apertures mm	Sample Retained g	of which Compos Retained g	Cumulative		Method Reference
			Retained %	Passing %	
31.5	0.0	0.0	0.0	100.0	PAS 100:2005, Annex E <sup>1</sup>
16.0	0.0	0.0	0.0	100.0	
12.0					
8.0	0.0	0.0	0.0	100.0	
4.0	13.6	8.6	7.5	92.5	
2.0	24.0	21.4	26.1	73.9	
1.0	28.2	28.2	50.6	49.4	
Pan	56.9	56.9	100.0	0.0	
<b>Total</b>	<b>122.7</b>	<b>115.1</b>			

1 State whether with modification, i.e. which sieves added or omitted  
**Sieve 12.0 omitted**