

Analytical & Consultant Chemists & Microbiologists

Laboratory approved by Renewable Energy Assurance Limited

ANALYSIS REPORT - COMPOSTED MATERIAL

Customer Information

PR Number	PR119
Composting Site	Winter
Grade (particle size range)	0 - 25
Grade Type	Princip
Certification Code	OEL-W
Date Sampled	03/11/
Batch Age When Sampled	8 Weel
Producer's Sample Code	01-37-2

PR119 Winterpick 0 - 25 Principal OEL-WBP-1025xx1 03/11/2020 8 Weeks 01-37-20

Laboratory Information

04/11/2020
1054
P-OLU001/309/20
Steve Johnson
03/12/2020

SUMMARY ~ PAS 100 "PASS" OR "FAIL"

Parameter	Result	PAS 10	0 Upper Limit	Unit	Pass or Fail	Method Reference		
E. coli	<100	1000		cfu/g	Pass	BS ISO 16649-2	BS ISO 16649-2	
Salmonella spp	Absent		Absent	in 25g	Pass	BS EN ISO 6579, Schedule 2, Part II.		
Cadmium as Cd	0.2		1.5	mg/kg	Pass	BS EN 13650		
Chromium as Cr	8.8		100	mg/kg	Pass	BS EN 13650		
Copper as Cu	22		200	mg/kg	Pass	BS EN 13650		
Lead as Pb	48		200	mg/kg	Pass	BS EN 13650		
Mercury as Hg	0.2		1	mg/kg	Pass	BS ISO 16772		
Nickel as Ni	7.5		50	mg/kg	Pass	BS EN 13650		
Zinc as Zn	108		400	mg/kg	Pass	BS EN 13650		
CO ₂ (stability)	5.2		16	mg CO $_2$ / g organic matter / day	Pass	ORG0020		
Weed Plants	0		0	number/l compost as received	Pass	OFW004-006		
Glass, metal, plastic & other	0.00		0.25	% of 'air-dry' sample > 2 mm	Pass	AfOR MT PC&S ¹ 05/12/2012		
Plastic	0.00		0.12	% of 'air-dry' sample > 2 mm	Pass	AfOR MT PC&S ¹ 05/	12/2012	
Sharps	0.00		R	% of 'air-dry' sample > 2 mm	R	AfOR MT PC&S ¹ 05/12/2012		
Stones in "mulch"	0.86		10	% of 'air-dry' sample > 4 mm	Pass	AfOR MT PC&S ¹ 05/	12/2012	
Stones in other than "mulch"	0.86		8	% of 'air-dry' sample > 4 mm	Pass	AfOR MT PC&S ¹ 05/12/2012		
R Refer to composter's quality policy	for upper limi	t allocat	ed to the compo	ost grade and intended market / end use,	and evaluate	sharps result agains	t that limit.	
Plant Response Tests	Result	PAS 1	.00 Minimum	Unit	Pass or Fail	Method Reference		
Tomato plants germinated	103.7		80	no. of plants, tests as % of controls	Pass	OFW004-006		
Tomato plant top growth	87.6		80	average g / plant, tests as % of controls	Pass	OFW004-006		
Tomato plant abnormalities	None		Absent	abnormal tomato plants in test trays Pass OFW004-006				
Validity of the Plant Response Test Result			Validity criterion			Outcome		
Germination of tomato seeds sown in control trays 27		27	≥ 27 tomato seeds germinated in control trays by 14 days after sowing			Valid		

OVERALL ASSESSMENT

Pass - if all of the results above are 'Pass' and all of the conditions of the Plant Response Test are 'Valid'

Fail - if any of the results are 'Fail' and any of the conditions of the Plant Response Test are 'Invalid'



Alliance Technical Laboratories Limited

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ALLIANCE TECHNICAL LABORATORIES

Analytical & Consultant Chemists & Microbiologists

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ANALYSIS REPORT - COMPOSTED MATERIAL

Customer Information

PR Number Composting Site Grade (particle size range) Grade Type Certification Code Date Sampled Batch Age When Sampled Producer's Sample Code **TOTAL NUTRIENTS**¹ PR119 Winterpick 0 - 25 Principal OEL-WBP-1025xx1 03/11/2020 8 Weeks 01-37-20

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Parameter	As Received (fresh)		In dry matter		Method Reference	Plant Signifincance
l'arameter	Result	Unit	Result	Unit		
Nitrogen as N	1658	mg/l	12080	mg/kg	Dumas, BS EN 13654-2 ²	Primary Nutrients
Nitrogen as N	0.52	% m/m	1.21	% m/m	Dumas, BS EN 13654-2 ²	Primary Nutrients
Phosphorus as P	218	mg/l	1589	mg/kg	BS EN 13650	Primary Nutrients
Phosphorus as P	0.07	% m/m	0.16	% m/m*	BS EN 13650	Primary Nutrients
Potassium as K	931	mg/l	6786	mg/kg	BS EN 13650	Primary Nutrients
Potassium as K	0.29	% m/m	0.68	% m/m*	BS EN 13650	Primary Nutrients
Calcium as Ca	2568	mg/l	18710	mg/kg	BS EN 13650	Secondary Nutrients
Calcium as Ca	0.81	% m/m	1.87	% m/m	BS EN 13650	Secondary Nutrients
Magnesium as Mg	273	mg/l	1992	mg/kg	BS EN 13650	Secondary Nutrients
Magnesium as Mg	0.09	% m/m	0.20	% m/m	BS EN 13650	Secondary Nutrients
Sulphur as S	186	mg/l	1353	mg/kg	BS EN 13650	Secondary Nutrients
Sulphur as S	0.06	% m/m	0.14	% m/m*	BS EN 13650	Secondary Nutrients
Boron as B	3.29	mg/l	24	mg/kg	BS EN 13650	Trace Nutrients
Iron as Fe	920	mg/l	6704	mg/kg	BS EN 13650	Trace Nutrients
Manganese as Mn	36.0	mg/l	262	mg/kg	BS EN 13650	Trace Nutrients
Molybdenum as Mo	0.18	mg/l	1.3	mg/kg	BS EN 13650	Trace Nutrients
Sodium as Na	74.5	mg/l	543	mg/kg	BS EN 13650	See Footnote 3

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.

* The QP Manager (the 'web tool') requires the test result associated with this unit.

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Customer Information

PR Number	PR119
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Grade (particle size range)	0 - 25
Grade Type	Principal
Certification Code	OEL-WBP-1025xx1
Date Sampled	03/11/2020
Batch Age When Sampled	8 Weeks
Producer's Sample Code	01-37-20

Laboratory Information

Date Received	04/11/2020
Report No	1054
Sample Number	P-OLU001/309/20
Reported By	Steve Johnson
Report Date	03/12/2020

POTENTIALLY TOXIC ELEMENTS 1

Parameter	As Received (fresh)		In dry matter		PAS100	Pass or	Method
	Result	Unit	Result	Unit	Upper Limit	Fail	Reference
Cadmium as Cd	0.03	mg/l	0.2	mg/kg*	1.5	Pass	BS EN 13650
Chromium as Cr	1.21	mg/l	8.8	mg/kg*	100	Pass	BS EN 13650
Copper as Cu ¹	3.02	mg/l	22	mg/kg*	200	Pass	BS EN 13650
Lead as Pb	6.59	mg/l	48	mg/kg*	200	Pass	BS EN 13650
Mercury as Hg	0.03	mg/l	0.2	mg/kg*	1	Pass	BS ISO 16772
Molybdenum as Mo	0.18	mg/l	1.3	mg/kg	N/A	N/A	BS EN 13650
Nickel as Ni	1.03	mg/l	7.5	mg/kg*	50	Pass	BS EN 13650
Zinc as Zn ¹	14.8	mg/l	108	mg/kg*	400	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.

* The QP Manager (the 'web tool') requires the test result associated with this unit.

PHYSICO-CHEMICAL PROPERTIES

Parameter	As Rece	ived (fresh)	In dry	matter	Method Reference
	Result	Unit	Result	Unit	
Bulk Density ¹	317	g/l*	137	mg/l	BS EN 13040
Dry Matter	43.3	% m/m	N/A		BS EN 13040
Moisture	180	g/l	N/A		BS EN 13040
Moisture	56.7	% m/m*	N/A		BS EN 13040
Organic Matter (Loss On Ignition)	86.8	% m/m	69.5	% m/m*	BS EN 13039
Organic Carbon (LOI ÷ 1.72)	50.5	% m/m	40.4	% m/m*	Calculated
рН	5.39	N/A*	N/A		BS EN 13037
Electrical Conductivity	1068	μS/cm@25°C	N/A		BS EN 13038
Electrical Conductivity	107	mS/m @ 25 oC	N/A		BS EN 13038

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 '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.

* The QP Manager (the 'web tool') requires the test result associated with this unit.

Steve Johnson Senior Analyst



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Customer Information

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Grade Type
Certification Code
Date Sampled
Batch Age When Sampled
Producer's Sample Code

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PATHOGENS

Parameter		As Received (fresh	Pass or Fail	Method Reference	
	Result	PAS100 Upper Limit	Unit		
E. coli at 44°C	<100	1000	cfu/g	Pass	BS ISO 16649-2
Salmonella spp at 37°C	Absent	Absent	in 25g	Pass	BS EN ISO 6579, Schedule 2, Part II.

STABILITY / MATURITY

Parameter		As Received (fres	Pass or Fail	Method Reference	
Result PAS:		PAS100 Upper Limit	Unit		
Carbon Dioxide (evolution rate)	5.2	16	mg CO₂ / g organic matter / day	Pass	ORG0020
Proportion of particles < 20 mm	98	N/A	% g/g	N/A	ORG0020



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ANALYSIS REPORT - COMPOSTED MATERIAL

Customer Information

PR Number	PR1
Composting Site	Win
Grade (particle size range)	0 - 2
Grade Type	Prin
Certification Code	OEL
Date Sampled	03/1
Batch Age When Sampled	8 W
Producer's Sample Code	01-3

PR119 Winterpick 0 - 25 Principal OEL-WBP-1025xx1 03/11/2020 8 Weeks 01-37-20

Laboratory Information

Date Received	04/11/2020
Report No	1054
Sample Number	P-OLU001/309/20
Reported By	Steve Johnson
Report Date	03/12/2020

PLANT RESPONSE ~ PART 1 ~ GERMINATION OF TOMATO PLANTS AND WEEDS

OFW004-006: Method for testing plant response to composted material and contamination by weed seeds and propagules.

Parameter	Peat	Compost	Unit
Quantity 'Selected before sieving'	3000	755	g
Quantity 'Sieved, particles <10 mm'	3000	755	g
Percentage of particles <10 mm	100	100.00	% m/m as received
Electrical conductivity of sieved material	91	1068	μS cm⁻¹
Laboratory compacted bulk density of sieved material	330	317	g/l

Parameter	Peat Control	Peat + compost test	Unit
	For 3 trays	For 3 trays	
Quantity of sieved peat (volume)	5.0	3.75	litres
Quantity of sieved compost (volume)	0.0	1.25	litres
Substrates ratio (vol peat:vol compost)	1.00 :0	3.00 :1	peat:compost
Quantity of sieved peat (mass)	1650.0	1237.5	g
Quantity of sieved compost (mass)	0.0	396.3	g
Quantity of dolomite limestone	20.0	15.0	g
Quantity of fertiliser	5.0	5.0	g

Parameter		Ρ	eat Con	tro	bl		Peat + co	mpost test			Overall	Unit
	Tray 1		Tray 2		Tray 3		Tray 1	Tray 2	Tray 3			
Total weed plants per tray		0		0		0	0	0	(0		
Mean weed plants per litre compost as received							0	per litre				
PAS 100 upper limit									0.0	received		
Pass or Fail									Pass			

1 If negative value, weed(s) present in control only, or if in test mix are attributable to its peat content

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Grade Type	Principal
Certification Code	OEL-WBP-1025xx1
Date Sampled	03/11/2020
Batch Age When Sampled	8 Weeks
Producer's Sample Code	01-37-20

Laboratory Information

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PLANT RESPONSE ~ PART 1 ~ GERMINATION OF TOMATO PLANTS AND WEEDS

OFW004-006: Method for testing plant response to composted material and contamination by weed seeds and propagules.

Parameter	P	eat Contro	bl	Peat + co	mpost test		Overall	Unit
	Tray 1	Tray 2	Tray 3	Tray 1	Tray 2	Tray 3		
Sown tomato seeds	10	10	10	10	10	10		
Germinated tomato plants		·						
10 days after sowing	8	8	10	7	9	9		
14 days after sowing	9	8	10	8	9	10		
28 days after sowing	9	8	10	9	9	10		
Total germinated tomato plants in all test trays as % of total germinated tomato plants in all control trays, by 10 days after sowing								
Total germinated tomato plants in all test trays as % of total germinated tomato plants in all control trays, by 14 days after sowing							100.0	tests as %
Total germinated tomato plants in all test trays as % of total germinated tomato plants in all control trays, by 28 days after sowing							103.7	of controls
PAS 100 minimum performance required %							80	
Pass or Fail							Pass	number
Number of tomato seeds sown in control trays that germinated by 14 days after sowing							27	germinated
Assessment of test validity	Invalid if < by 14 days	<27 tomato s after sow	seeds sov	vn in contro	ol trays gei	minated	Valid	



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PR Number	PR119
Composting Site	Winterp
Grade (particle size range)	0 - 25
Grade Type	Principa
Certification Code	OEL-WB
Date Sampled	03/11/2
Batch Age When Sampled	8 Weeks
Producer's Sample Code	01-37-20

PR119 Winterpick 0 - 25 Principal OEL-WBP-1025xx1 03/11/2020 8 Weeks 01-37-20

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PLANT RESPONSE ~ PART 2 ~ GROWTH OF GERMINATED OF TOMATO PLANTS

OFW004-006: Method for testing plant response to composted material and contamination by weed seeds and propagules.

Tomato plant top growth 28 days after	F	Peat Contro	bl	Peat	+ compos	t test	Overall	Unit			
sowing	Tray 1	Tray 2	Tray 3	Tray 1	Tray 2	Tray 3					
Total number of true leaves per tray	N/D	N/D	N/D	N/D	N/D	N/D		number of			
Mean number of true leaves per plant in tray	N/D	N/D	N/D	N/D	N/D	N/D		tomato plants			
Total plant mass ¹ per tray	47.00	38.20	42.87	20.23	16.02	27.38		g top			
Mean mass per plant ¹ in tray	5.2	4.8	4.3	2.2	1.8	2.7		growth fresh mass			
Mean mass per plant ¹ for all test trays as % of mean mass per plant ¹ for all control trays, by 28 days after sowing								tests as %			
PAS 100 minimum performance required											
Pass or Fail											
Mean mass per plant ¹ grown in all 3 control trays							4.743	g top			
Assessment of test validity	Valid if ≥ 2	2.00 g per j	plant ¹ in co	ontrol trays	5		Valid	growth fresh mass			
-											

¹ Tomato plant top growth

N/D = Not Determined

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Composting Site	Winterpick
Grade (particle size range)	0 - 25
Grade Type	Principal
Certification Code	OEL-WBP-1025xx1
Date Sampled	03/11/2020
Batch Age When Sampled	8 Weeks
Producer's Sample Code	01-37-20

Laboratory Information

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PLANT RESPONSE ~ PART 3 ~ ABNORMAL TOMATO PLANTS

OFW004-006: Method for testing plant response to composted material and contamination by weed seeds and propagules.

Abnormal tomato plants		Peat Control			Peat + compost test		
	Tray 1	Tray 2	Tray 3	Tray 1	Tray 2	Tray 3	
Not evident							
Abnormalities in plants grown in test s	ample travs that are n	ot present	in nlants d	rown in c	ontrol trav	16	None
Abnormancies in plants grown in test sample trays that are not present in plants grown in control trays							None
Pass or Fail							Pass
Assessment of test validity	Abnormalities in plants grown in control trays					None	
Valid if abnormalities absent in plants grown in control trays					Valid		

Observations				
	None			
Additional factors				



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Laboratory InformationDate Received04/11/2020Report No1054Sample NumberP-OLU001/309/20Reported BySteve JohnsonReport Date03/12/2020

PHYSICAL CONTAMINANTS

Sieve Apertures ¹	Glass	Metal	Plastic	Other ²	Description	Total ³	Of which Sharps⁴	Stones⁵	Method Reference: AfOR MT
mm	g	g	g	g		g	g	g	05/12/2012
31.5	0	0	0	0		0	0	0	
16.0	0	0	0	0		0	0	0	
8.0	0	0	0	0		0	0	0	
4.0	0	0	0	0		0	0	1.22	
2.0	0	0	0	0		0	0	ND	
1.0	ND	ND	ND	ND	N/A	0	ND	ND	
Pan	ND	ND	ND	ND	N/A	0	ND	ND	
% of total sample > 2 mm	0.00	0.00	0.00	0.00		0.00	0.00	N/A	
% of total sample > 4 mm	NA	NA	NA	NA		NA	NA	0.86	
PAS 100 upper limit for "mulch"			0.12			0.25	R	10.0	
Pass or Fail			Pass			Pass	R	Pass	
PAS 100 upper limit for other than "mulch"			0.12			0.25	R	8	
Pass or Fail			Pass			Pass	R	Pass]

Contaminants Key - Other²

A = Paper/Card B = Fibre C = String/Twine D = Rubber E = Matting

¹ 10 or 12.5 omitted

² Any different physical contaminant type; use key to identify or 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

R Refer to composter's quality policy for upper limit allocated to the compost grade and intended market / end use, and evaluate sharps result against that limit.

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ANALYSIS REPORT - COMPOSTED MATERIAL

Customer Information

PR Number	PR1
Composting Site	Wir
Grade (particle size range)	0 - 2
Grade Type	Prir
Certification Code	OEL
Date Sampled	03/
Batch Age When Sampled	8 N
Producer's Sample Code	01-

PR119 Winterpick 0 - 25 Principal OEL-WBP-1025xx1 03/11/2020 8 Weeks 01-37-20

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PARTICLE SIZE DISTRIBUTION (air-dry sample)

Sieve Apertures ¹	Sample	of which compost	Cumulative		Method Reference:
	Retained	Retained Retained Passing		AfOR MT PC&S ¹	
mm	g	g	%	%	05/12/2012
31.5	23.5	23.5	16.5	83.5	
16.0	2.5	2.5	18.3	81.7	
8.0	11.4	11.4	26.3	73.7	
4.0	23.5	22.28	41.9	58.1	
2.0	27.8	27.8	61.4	38.6	
1.0	23.9	23.9	78.2	21.8	
Pan	31.0	31	100.0	0.0	
Total	143.6	142.38			

¹ 10 or 12.5 omitted

Note: Moisture at 40°C = 1.7 % m/m

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