

Material: TS1 Topsoil
Source: Bourne Amenity Ltd
Date Tested: 03/04/2018
Tested Against: BS3882:2015 Multipurpose Grade
Tested By: Tim O'Hare Associates (TOHA/18/7527/SS)

Parameter	Unit	BS3882:2015 Multipurpose Range	Result	Compliance
Texture:				
Clay (<0.002mm)	% w/w	5 - 30%	15	Yes
Silt (0.002 - 0.63mm)	% w/w	0 - 65%	18	Yes
Sand (0.05 - 2.0mm)	% w/w	20 - 90%	67	Yes
Textual Class:	Sandy Loam			
Stones (2 - 20mm)	% w/w DW	0 - 30%	1	Yes
Stones (20-50mm)	% w/w DW	0 - 10%	1	Yes
Stones (>50mm)	% w/w DW	0%	0	Yes
Organic Matter (LOI)	% w/w	3.0 - 20.0	4.5	Yes
Ph		5.5 - 8.5	8.1	Yes
Exchangeable Sodium Percentage	%	< 15%	3.7	Yes
Phytotoxic Contaminants:				
Total Zinc	mg/kg	< 300	48	Yes
Total Copper	mg/kg	< 200	20	Yes
Total Nickel	mg/kg	< 180	14	Yes
Available Nutrients:				
Nitrogen	mg/l	>0.15	0.21	Yes
Phosphorus	mg/l	16 - 140	50	Yes
Potassium	mg/l	121 - 1500	646	Yes
Magnesium	mg/l	51 - 600	95	Yes
Carbon:Nitrogen Ratio	:1	< 20:1	12	Yes
Moisture Content	%	n/a	16	--
Additional Analysis:				
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	947	Yes
Electrical Conductivity (1:2 CaSO4 extract)	µS/cm	3300	2606	Yes
Visible Contaminants:				
Plastics (>2.0mm)	% w/w	< 0.5	0.0	Yes
Sharps (>2.0mm)	% w/w	< 0.25	0.0	Yes

Parameter	Unit	Guidelines	Value	Result	Compliance
Heavy Metals and Hydrocarbons					
Total Arsenic (As)	mg/kg	S4UL	<37	10	Yes
Total Barium (Ba)	mg/kg	S4UL	<1300	43	Yes
Total Beryllium (Be)	mg/kg	S4UL	<1.7	0.46	Yes
Total Cadmium (Cd)	mg/kg	S4UL	<11	<0.2	Yes
Total Chromium (Cr)	mg/kg	S4UL	<910	18	Yes
Hexavalent Chromium (Cr Vi)	mg/kg	S4UL	<6	<4.0	Yes
Total Cyanide (Cn)	mg/kg	Dutch Action Value (DAV)	<20	<1	Yes
Total Lead (Pb)	mg/kg	SP1010 (Defra Category 4)	<200	20	Yes
Total Mercury (Hg)	mg/kg	S4UL	<1.2	<0.3	Yes
Total (mono) Phenols	mg/kg	S4UL	<550	<1	Yes
Total Selenium (Se)	mg/kg	S4UL	<250	<1.0	Yes
Total Vanadium (V)	mg/kg	S4UL	<410	25	Yes
Water Soluble Boron (B)	mg/kg	S4UL	<290	2.5	Yes
Acenaphthylene	mg/kg	S4UL	<420	<0.05	Yes
Acenaphthene	mg/kg	S4UL	<510	<0.05	Yes
Anthracene	mg/kg	S4UL	<5400	<0.05	Yes
Benzo (a) Anthracene	mg/kg	S4UL	<11	0.19	Yes
Benzo (a) Pyrene	mg/kg	S4UL	<2.7	0.2	Yes
Benzo (b) Fluoranthene	mg/kg	S4UL	<3.3	0.25	Yes
Benzo (g,h,i) Perylene	mg/kg	S4UL	<340	<0.05	Yes
Benzo (k) Fluoranthene	mg/kg	S4UL	<93	0.13	Yes
Chrysene	mg/kg	S4UL	<22	0.22	Yes
Dibenzo (a,h) Anthracene	mg/kg	S4UL	<0.28	<0.05	Yes
Fluoranthene	mg/kg	S4UL	<560	0.35	Yes
Fluorene	mg/kg	S4UL	<400	<0.05	Yes
Indeno (1,2,3-cd) Pyrene	mg/kg	S4UL	<36	<0.05	Yes
Naphthalene	mg/kg	S4UL	<5.6	<0.05	Yes
Phenanthrene	mg/kg	S4UL	<220	<0.05	Yes
Pyrene	mg/kg	S4UL	<1200	0.29	Yes
Total PAHs (sum SUEPA16)	mg/kg	TOHA	<40	1.6	Yes
Aliphatic TPH (C5 - C6)	mg/kg	S4UL	<78	<0.001	Yes
Aliphatic TPH (C6 - C8)	mg/kg	S4UL	<230	<0.001	Yes
Aliphatic TPH (C8 - C10)	mg/kg	S4UL	<65	<0.001	Yes
Aliphatic TPH (C10 - C12)	mg/kg	S4UL	<330	<1.0	Yes
Aliphatic TPH (C12 - C16)	mg/kg	S4UL	<2400	<2.0	Yes
Aliphatic TPH (C16 - C21)	mg/kg	S4UL	<92000	<8.0	Yes
Aliphatic TPH (C21 - C35)	mg/kg	S4UL	<92000	37	Yes
Aliphatic TPH (C5 - C35)	mg/kg	S4UL	<92000	44	Yes
Aromatic TPH (C5 - C7)	mg/kg	S4UL	<140	<0.001	Yes
Aromatic TPH (C7 - C8)	mg/kg	S4UL	<290	<0.001	Yes
Aromatic TPH (C8 - C10)	mg/kg	S4UL	<83	<0.001	Yes
Aromatic TPH (C10 - C12)	mg/kg	S4UL	<180	<1.0	Yes
Aromatic TPH (C12 - C16)	mg/kg	S4UL	<330	2.4	Yes
Aromatic TPH (C16 - C21)	mg/kg	S4UL	<540	<10	Yes
Aromatic TPH (C21 - C35)	mg/kg	S4UL	<1500	40	Yes
Aromatic TPH (C5 - C35)	mg/kg	S4UL	<1500	50	Yes
Benzene	mg/kg	S4UL	<0.17	<0.001	Yes
Toluene	mg/kg	S4UL	<290	<0.001	Yes
Ethylbenzene	mg/kg	S4UL	<110	<0.001	Yes
O-xylene	mg/kg	S4UL	<140	<0.001	Yes
M & P-xylene	mg/kg	S4UL	<270	<0.001	Yes
Asbestos	mg/kg	Control of Asbestos Regulations 2006	Absent	Absent	Yes

* All reports originate from samples collected in accordance with the guidelines laid out in the BS3882:2015 standard. Tests of this material are carried out a minimum of every 6 months.

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