

**Material:** TS5 Low Fertility Topsoil  
**Source:** Bourne Amenity Ltd  
**Date:** 16/01/2017  
**Tested Against:** BS3882:2015 Low Fertility Grade  
**Tested By:** NRM Laboratories (Report No 43501-17)

Parameter	Unit	BS3882:2015 Low Fertility Range	Result	Compliance
<b>Texture:</b>				
Clay (<0.002mm)	% w/w	5 - 30%	5	Yes
Silt (0.002 - 0.63mm)	% w/w	0 - 65%	22	Yes
Sand (0.05 - 2.0mm)	% w/w	20 - 90%	73	Yes
<b>Textual Class:</b>	<b>Sandy Loam</b>			
Stones (2 - 20mm)	% w/w DW	0 - 30%	19	Yes
Stones (20-50mm)	% w/w DW	0 - 10%	0	Yes
Stones (>50mm)	% w/w DW	0%	0	Yes
<b>Organic Matter (LOI)</b>	% w/w	2.0 - 20.0	6.8	Yes
<b>Ph</b>		3.5 - 9.0	7.8	Yes
<b>Exchangeable Sodium Percentage</b>	%	< 15%	0.8	Yes
<b>Phytotoxic Contaminants:</b>				
Total Zinc	mg/kg	< 300	32.8	Yes
Total Copper	mg/kg	< 200	12.9	Yes
Total Nickel	mg/kg	< 110	19.3	Yes
<b>Available Nutrients:</b>				
Nitrogen	mg/l	n/a	0.07	--
Phosphorus	mg/l	<20	13	Yes
Potassium	mg/l	n/a	127	--
Magnesium	mg/l	n/a	32	--
<b>Carbon:Nitrogen Ratio</b>	:1	< 35:1	56.3	No
<b>Calcium Carbonate</b>	% m/m	n/a	3.1	--
<b>Additional Analysis:</b>				
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	846	Yes
Electrical Conductivity (1:2 CaSO4 extract)	µS/cm	3300	2161	Yes
<b>Visible Contaminants:</b>				
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
<b>Heavy Metals and Hydrocarbons</b>					
Total Arsenic (As)	mg/kg	Soil Guideline Values CLEA 2009 (SGV)	<32	14.5	Yes
Total Cadmium (Cd)	mg/kg	SGV	<10	0.11	Yes
Total Chromium (Cr)	mg/kg	SGV	<130	18.3	Yes
Hexavalent Chromium (Cr Vi)	mg/kg	Land Quality Management 2009 (LQM)	<4.3	< 0.1	Yes
Total Cyanide (Cn)	mg/kg	Dutch Action Value (DAV)	<20	< 1	Yes
Total Lead (Pb)	mg/kg	SGV	<450	< 5	Yes
Total Mercury (Hg)	mg/kg	SGV	<170	< 0.2	Yes
Total (mono) Phenols	mg/kg	SGV	<420	< 1	Yes
Total Selenium (Se)	mg/kg	SGV	<350	0.23	Yes
Acenaphthylene	mg/kg	LQM	<400	< 0.05	Yes
Acenaphthene	mg/kg	LQM	<480	< 0.05	Yes
Anthracene	mg/kg	LQM	<4900	< 0.05	Yes
Benzo (a) Anthracene	mg/kg	LQM	<4.7	0.2	Yes
Benzo (a) Pyrene	mg/kg	LQM	<0.94	< 0.1	Yes
Benzo (b) Fluoranthene	mg/kg	LQM	<6.5	< 0.1	Yes
Benzo (g,h,i) Perylene	mg/kg	LQM	<46	< 0.1	Yes
Benzo (k) Fluoranthene	mg/kg	LQM	<9.6	< 0.1	Yes
Chrysene	mg/kg	LQM	<8.0	0.2	Yes
Dibenzo (a,h) Anthracene	mg/kg	LQM	<0.86	< 0.1	Yes
Fluoranthene	mg/kg	LQM	<460	0.3	Yes
Fluorene	mg/kg	LQM	<380	< 0.05	Yes
Indeno (1,2,3-cd) Pyrene	mg/kg	LQM	<3.9	< 0.1	Yes
Naphthalene	mg/kg	LQM	<3.7	< 0.05	Yes
Phenanthrene	mg/kg	LQM	<200	0.1	Yes
Pyrene	mg/kg	LQM	<1000	0.3	Yes
Total PAHs (sum SUEPA16)	mg/kg	TOHA	<40	1.2	Yes
Aliphatic TPH (C5 – C35)	mg/kg	LQM	<1100	<70	Yes
Aromatic TPH (C5 – C35)	mg/kg	LQM	<1100	<200	Yes
Benzene	mg/kg	SGV	<0.33	< 0.02	Yes
Toluene	mg/kg	SGV	<610	< 0.2	Yes
Ethylbenzene	mg/kg	SGV	<350	< 0.04	Yes
O-xylene	mg/kg	SGV	<230	< 0.1	Yes
M & P-xylene	mg/kg	SGV	<470	< 0.2	Yes
MTBE	mg/kg	SGV	<470	< 0.05	Yes
Asbestos	mg/kg	Control of Asbestos Regulations 2006	Absent	Absent	Yes