

Topsoil Verification Checklist

Phase	Description	Date
A Pre-importation	Find reputable source of Topsoil.	
	Request information in relation to Human Health in addition to BS Topsoil classification compliance. See overleaf for typical determinants requiring testing.	
	Ensure Topsoil complies with BS3882:2015	
	Data on testing must be within the last 30 days/month.	
	If not; request more recent information.	
	If no additional information, consider an alternative source.	
	If no alternative source then consider options in Section B.	
	Review up to date data with compliance criteria set out overleaf. If acceptable then proceed to Section C.	
B Pre-importation Third Party Testing	Consider importing a single load to store onsite and instruct independent testing.	
	Consider independent testing of material at source.	
	Independent testing has confirmed that source is suitable for intended use.	
IMPORT MATERIALS WHEN REQUIRED. Please ensure it is less than two weeks between parts A/B and importation.		
C Importation Checking	Check consignment notes to ensure source of material being imported is what is expected.	
	Undertake visual inspection of imported materials; Site should be wary and potentially refuse delivery should it have any man-made debris including brick, concrete, tarmac, glass, plastic etc.	
D Independent Verification	Liaise with Ground and Water Limited over timings for independent testing of placed Topsoil. Ensure at least 2 weeks is available to obtain samples and test and provide certificate.	
	Ground and Water Limited Engineer to attend site and sample Topsoil at a rate of 1 sample per 50m ³ (general minimum requirements). Testing takes 5 working days.	
	Ground and Water Limited to provide verification/Validation certificate or report for imported Topsoil.	
	Issue to local authority, NHBC or other appropriate.	

Critical Concentrations – Ground and Water Limited

Contaminant	Private gardens to residential houses or ground floor flats. It is privately owned or free to all to access? (mg/kg) Based on 1.0% SOM	Communal gardens to flats/public open space. It is privately owned or free to all residents to access? (mg/kg) Based on 1.0% SOM	CONFORM: Yes/No. Any no would indicate material is unsuitable for use subject to detailed risk assessment.
Asbestos	No Detections	No Detection	
Arsenic	37	40	
Beryllium	1.7	1.7	
Boron	290	11000	
Cadmium	11	85	
Chromium (III)	910	910	
Chromium (VI)	6	6	
Copper	2400	7100	
Copper – Harmful to plants	250		
Lead	210	330	
Elemental Mercury	1.2	1.2	
Inorganic Mercury	40	56	
Methylmercury	11	15	
Nickel	130	180	
Selenium	250	430	
Vanadium	410	1200	
Zinc	3700	40000	
Zinc – Harmful to plants	1000		
Benzo(a)anthracene	7.20	11	
Benzo(a)pyrene	2.20	3.20	
Benzo(b)fluoranthene	2.60	3.90	
Benzo(k)fluoranthene	77	110	
Chrysene	15	30	
Dibenzo(ah)anthracene	0.24	0.31	
Indeno(123-cd)pyrene	27	45	
Napthalene	2.3	2.6	
TPH Aliphatic EC 5-6	42	42	
EC >6-8	100	100	
EC >8-10	27	27	
EC >10-12	130 (48) ^{vap}	130 (48) ^{vap}	
EC >12-16	1,100 (24) ^{sol}	1,100 (24) ^{sol}	
EC >16-35	65,000 (8.48) ^{sol}	65,000 (8.48) ^{sol}	
EC >35-44	65,000 (8.48) ^{sol}	65,000 (8.48) ^{sol}	
TPH Aromatic EC 5-7	70	370	
EC >7-8	130	860	
EC >8-10	34	47	
EC >10-12	74	250	
EC >12-16	140	1800	
EC >16-21	260	1900	
EC >21-35	1100	1900	
EC >35	1100	1900	
Benzene	0.087	0.38	
Toluene	130	880	
Ethylbenzene	47	83	
Xylene (Sum of o, m and p)	56	79	