

Mr John Coles Bury Hill Landscape Supplies Ltd The Estate Office Old Bury Hill Westcott Nr Dorking Surrey, RH4 3JU

> 20th August 2024 Our Ref: TOHA/24/1472/6/SS Your Ref: see below

Dear Sirs

Sand Analysis Report: Bury Hill Horsham Yard - Kent Medium / Coarse Sand

We have completed the analysis of the sand sample recently collected, referenced *Kent Medium / Coarse Sand* and have pleasure reporting our findings.

The purpose of the analysis was to assess selected physical and chemical properties of the sand in order to determine its potential for use in a range of landscape applications. The ultimate suitability of the sand for any specific use or project should be reviewed and assessed in advance. However, this report offers some possible applications where the sand may be appropriate.

This report presents the results of analysis for the sample collected from the production facility on 30/07/2024 and it should be considered 'indicative' of the sand source. The report and results should therefore not be used by third parties as a means of verification or validation testing, waste designation purposes or for any project-specific application, especially after the topsoil has left the Bury Hill Landscape Supplies Ltd site.

SAMPLE EXAMINATION

The material can be described as a brownish yellow (Munsell Colour, 10YR 6/8), slightly moist, friable, noncalcareous SAND with a single grain structure. The material was stone free and no unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

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Plate 1: Kent Medium / Coarse Sand Sample

ANALYTICAL SCHEDULE

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical tests to confirm the composition of the sand. The following parameters were determined:

- detailed particle size analysis (5 sands, silt, clay);
- stone content (2-20mm, 20-75mm, >75mm);
- saturated hydraulic conductivity;
- pH and electrical conductivity (1:2.5 water extract);
- exchangeable sodium percentage;
- calcium carbonate;
- organic matter content;
- visible contaminants;
- heavy metals (Sb, As, B, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, V, Zn);
- total cyanide and total (mono) phenols;
- speciated PAHs (US EPA16 suite);
- aromatic and aliphatic TPH (C5-C35 banding);
- benzene, toluene, ethylbenzene, xylene (BTEX);
- asbestos screen.

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below.

RESULTS OF ANALYSIS

Particle Size Analysis and Saturated Hydraulic Conductivity

The sample had a total sand content of 97%. Further detailed particle size analysis revealed the sample to have a narrow particle size distribution, with a predominance of *medium sand* (0.25-0.50mm), followed by *coarse sand* (0.50 - 0.10mm).

If used as a subsoil for landscaping applications, it could be described as 'very free-draining' which is confirmed by the high saturated hydraulic conductivity result (358 mm/hr).

Stone Content

The sample was stone-free and, as such, stones should not restrict the use of the sand for landscape applications.

pH and Electrical Conductivity Values

The sample was alkaline in reaction (pH 7.6). This pH value would be considered suitable as subsoil for general landscape purposes providing species with a wide pH tolerance or those known to prefer alkaline soils are selected for planting, turfing and seeding.

The electrical conductivity (salinity) values (water and CaSO₄ extract) were low, which indicates that soluble salts were not present at elevated levels.

Organic Matter Content

The organic matter content of the sand was very low (<0.5%).

Potential Contaminants

In the absence of site-specific assessment criteria, the concentrations of selected potential contaminants that affect human health have been assessed for the concentrations that affect human health have been assessed for *residential* end-use against the Suitable For Use Levels (S4ULs) presented in the LQM/CIEH S4ULs for Human Health Risk Assessment (2015) and the DEFRA SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document (2014).

Of the potential contaminants determined, none exceeded their respective guideline values.

Phytotoxic Contaminants

Of the phytotoxic (toxic to plants) contaminants determined (copper, nickel, zinc), none was found at levels that exceeded the maximum recommended levels.

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COMMENTS

The sand represented by this sample has the following properties:

- Narrow particle size distribution
- Low fines content
- High drainage rate
- Alkaline pH value
- Low lime content
- Non-saline
- Inorganic

Based on these characteristics, the sand represented by this sample may have potential for use in a number of landscape application, examples of which could include:

- A free-draining, compaction resistant subsoil for landscape environments where a higher level of permeability and porosity in the subsoil layer is required, e.g. when planting larger rootballed trees, for podium landscapes, or formal / high-use grass lawns;
- 2) For use as a filter medium for bioretention systems and rain gardens that may be included within Sustainable Drainage Systems (SuDS).
- 3) For use as a surface ameliorant / topdressing to improve amenity grass / sports pitch surfaces;
- 4) For use in sports pitch drainage where a free-draining sand may be required (e.g. sand grooves);
- 5) For blending with suitable ameliorants to produce high-permeability rootzone;

The suitability of this sand for any specific project or product should be carefully checked by further testing as necessary and should be approved by any project's designer / manager before use.

We hope this report meets with your approval and provides the necessary information. Please do not hesitate to contact the undersigned if we can be of further assistance.

Yours faithfully

Harriet MacRae BSc MSc Soil Scientist

P. Deena

Ceri Spears BSc MSc MISoilSci Senior Associate

For & on behalf of Tim O'Hare Associates LLP



Client:	Bury Hill Landscape Supplies Ltd			
Project	Bury Hill Horsham Yard			
Job:	Sand Analysis			
Date:	20/08/2024			
Job Ref No:	TOHA/24/1472/6/SS			
Sample Reference				

		Accreditation
Clay (<0.002mm)	%	UKAS
Silt (0.002-0.05mm)	%	UKAS
Very Fine Sand (0.05-0.15mm)	%	UKAS
Fine Sand (0.15-0.25mm)	%	UKAS
Medium Sand (0.25-0.50mm)	%	UKAS
Coarse Sand (0.50-1.0mm)	%	UKAS
	%	UKAS
Very Coarse Sand (1.0-2.0mm)		
Total Sand (0.05-2mm)	%	UKAS
Texture Class (UK Classification)		UKAS
Stones (2-20mm)	% DW	GLP
Stones (20-75mm)	% DW	GLP
Stones (>75mm)	% DW	GLP
Saturated Hydraulic Conductivity	mm/hr	A2LA
	1	1.11/(A O
pH Value (1:2.5 water extract)	units	UKAS
Calcium Carbonate	%	UKAS
Electrical Conductivity (1:2.5 water extract)	uS/cm	UKAS
Electrical Conductivity (1:2 CaSO ₄ extract)	uS/cm	UKAS
Organic Matter (LOI)	%	UKAS
Exchangeable Sodium Percentage	%	UKAS
	0/	
Visible Contaminants: Plastics >2.00mm Visible Contaminants: Sharps >2.00mm	%	UKAS UKAS
Noble Contaminanta, Onarpa >2.001111	/0	UNAG
Total Antimony (Sb)	mg/kg	MCERTS
Total Arsenic (As)	mg/kg	MCERTS
Total Barium (Ba)	mg/kg	MCERTS
Total Beryllium (Be)	mg/kg	MCERTS
Total Cadmium (Cd)	mg/kg	MCERTS
Total Chromium (Cr)	mg/kg	MCERTS
Hexavalent Chromium (Cr VI)	mg/kg	MCERTS
Total Copper (Cu)	mg/kg	MCERTS
Total Lead (Pb)	mg/kg	MCERTS
Total Mercury (Hg)	mg/kg	MCERTS
Total Nickel (Ni)	mg/kg	MCERTS
Total Selenium (Se)	mg/kg	MCERTS
Total Vanadium (V)	mg/kg	MCERTS
Total Zinc (Zn)	mg/kg	MCERTS
Water Soluble Boron (B)	mg/kg	MCERTS
Total Cyanide (CN)	mg/kg	MCERTS
Total (mono) Phenols	mg/kg	MCERTS
Naphthalene	mg/kg	MCERTS
Acenaphthylene	mg/kg	MCERTS
Acenaphthene	mg/kg	MCERTS
Fluorene	mg/kg	MCERTS
Phenanthrene	mg/kg	MCERTS
Anthracene	mg/kg	MCERTS
Fluoranthene	mg/kg	MCERTS
Pyrene	mg/kg	MCERTS
Benz(a)anthracene	mg/kg	MCERTS
Chrysene	mg/kg	MCERTS
Benzo(b)fluoranthene	mg/kg	MCERTS
Benzo(k)fluoranthene	mg/kg	MCERTS
Benzo(a)pyrene	mg/kg	MCERTS
	mg/kg	MCERTS
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	mg/kg	MOEDTO
Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	mg/kg	MCERTS
Dibenzo(a,h)anthracene Benzo(g,h,i)perylene		MCERTS
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Kent Medium / Coarse	
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Not-detected

Asbestos S = SAND

Visual Examination
The material can be described as a brownish yellow (Munsell Colour, 10YR 6/8), slightly moist, friable, non-calcareous SAND with a single
grain structure. The material was stone free and no unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were

D/ND

Results of analysis should be read in conjunction with the report they were issued with.

The contents of this certificate shall not be reproduced without the express written permission of Tim O'Hare Associates LLP

ISO 17025

H.MacRae

Harriet MacRae BSc MSc Soil Scientist