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

20th January 2023 Our Ref: TOHA/23/7791/3/SS

Your Ref: see below

Dear Sirs

Topsoil Analysis Report: Bury Hill Horsham Yard - Bury Hill Black

We have completed the analysis of the soil sample recently submitted, referenced *Bury Hill Black* and have pleasure reporting our findings.

The purpose of the analysis was to determine the suitability of the sample for general landscape purposes (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil (BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil).

This report presents the results of analysis for the sample submitted to our office, and it should be considered 'indicative' of the topsoil 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 sample can be described as very dark grey (Munsell Colour 10YR 3/1), slightly moist, friable, slightly calcareous SANDY LOAM with a weakly developed, very fine to medium and occasionally coarse granular structure*. The sample was slightly stoney and contained a high proportion of organic fines and frequent woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

*This appraisal of soil structure was made from examination of a disturbed sample. Structure is a key soil characteristic that may only be accurately assessed by examination in an in-situ state.



Plate 1: Bury Hill Black 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 and fertility of the soil, and the concentration of selected potential contaminants. The following parameters were determined:

- detailed particle size analysis ('5 sands', silt, clay);
- stone content (2-20mm, 20-50mm, >50mm);
- pH and electrical conductivity values;
- calcium carbonate;
- exchangeable sodium percentage;
- major plant nutrients (N, P, K, Mg);
- · organic matter content;
- C:N ratio;
- 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.

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RESULTS OF ANALYSIS

Particle Size Analysis and Stone Content

The sample fell into the *sandy loam* texture class, which is usually considered suitable for general landscape applications provided the soil's physical condition is satisfactory.

The stone content of the sample was low and, as such, stones should not restrict the use of the soil for general landscape applications.

pH and Electrical Conductivity Values

The sample was slightly alkaline in reaction (pH 7.3), with a pH value that would be suitable for general landscape purposes.

The electrical conductivity (salinity) value (water extract) was moderate, which indicates that soluble salts should not be present at levels that would be harmful to plants.

The electrical conductivity value by CaSO₄ extract (BS3882 requirement) fell below the maximum specified value (3300 μS/cm) given in BS3882:2015 – Table 1.

Organic Matter and Fertility Status

The sample was adequately supplied with organic matter and all major plant nutrients.

The C:N ratio of the sample was acceptable for general landscape purposes.

Potential Contaminants

With reference to *BS3882:2015 - Table 1*: Notes 3 and 4, there is a requirement to confirm levels of potential contaminants in relation to the topsoil's proposed end use. This includes human health, environmental protection and metals considered toxic to plants. In the absence of site-specific assessment criteria, the concentrations that affect human health have been compared with the *residential with homegrown produce* land use in 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* (C4SLs) *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 permissible levels specified in BS3882:2015 – Table 1.

CONCLUSION

The purpose of the analysis was to determine the suitability of the sample for general landscape purposes (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil (BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil).

From the soil examination and subsequent laboratory analysis, the sample was described as a slightly alkaline, non-saline, slightly calcareous loamy sand with a weakly developed structure and low stone content. The sample contained sufficient reserves of organic matter and all major plant nutrients. Of the potential contaminants determined, none exceeded their respective guideline values.

To conclude, based on our findings, the topsoil represented by this sample would be considered suitable for general landscape purposes (trees, shrubs and amenity grass), provided the physical condition of the soil is satisfactory.

The organic matter content of the topsoil would be considered acceptable for tree and shrub planting however for amenity grass areas the topsoil would only be considered acceptable for lower foot traffic areas (e.g. road verges). For higher performance amenity grass applications (e.g. sports pitches or formal lawns), the high organic matter content of the topsoil may lead to variable settlement and a soft, uneven surface.

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The topsoil was fully compliant with the requirements of the British Standard for Topsoil (BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil).

Soil Handling Recommendations

It is important to maintain the physical condition of the soil and avoid structural damage during all phases of soil handling (e.g. stockpiling, respreading, cultivating, planting, seeding or turfing). As a consequence, soil handling operations should be carried out when soil is sufficiently dry to be non-plastic (friable) in consistency.

It is important to ensure that the soil is not unnecessarily compacted by trampling or trafficking by site machinery, and soil handling should be stopped during and after heavy rainfall and not continued until the soil is friable in consistency. If the soil is structurally damaged and compacted at any stage during the course of soiling or landscaping works, it should be cultivated appropriately to relieve the compaction and to restore the soil's structure prior to any planting, turfing or seeding.

Further details on soil handling are provided in Annex A of BS3882:2015.

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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

Graduate Soil Scientist

H.MacRae

Matthew Heins

BSc (Hons) MISoilSci Senior Soil Scientist

For & on behalf of Tim O'Hare Associates LLP

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Client:	Bury Hill Landscape Supplies Ltd
Project:	Bury Hill Horsham Yard
Job:	Topsoil Analysis
Date:	20/01/2023
Job Ref No:	TOHA/23/7791/3/SS

Sample Reference	Accordanged Science	JOB REI NO. TOTAZS/T191/3/33			4		
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Cay Co0020mm 9, UKAS 13 13 13 13 13 13 14 13 13	March Marc	Sample Reference		Accreditation	1	Dury Tilli Black	
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Stones (25-05mm)	25 work entract 1				-		
Stones (4		
pH Value (1:2.5 water extract)	25 water estrated				1		
pH Value (1:2.5 water extract)	25 water estrated	Stones (>50mm)	% DW	GLP	1	0	
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Calcium Carbonate W. UKAS		nH \/alua (1:2 5 water extract)	unite	TIKVE	1	7.2	
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Total Cardmium (Cd)	mg (cd)	Total Beryllium (Be)	mg/kg	MCERTS	J	0.22	
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Total Lead (Pb)			mg/kg				
Total Lead (Pb)		Total Copper (Cu)	mg/kg	MCERTS	1	9.7	
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Total Selenium (Se)	m(Se)	Total Nickel (Ni)	mg/kg		J	7	
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Total PAHs (sum USEPA16) mg/kg MCERTS < 0.80	March Marc	Benzo(q,h,i)perylene					
Aliphatic TPH (C5-C6)	(CS-C6)	Total PAHs (sum USEPA16)	mg/kg	MCERTS	J	< 0.80	
Aliphatic TPH (C8-C8)	A CBC-CB mg/kg MCERTS < 0.0001 A CBC-C10 mg/kg MCERTS < 0.001 A CBC-C10 mg/kg MCERTS < 0.001 A CBC-C12 mg/kg MCERTS < 1.0 A CBC-C11 mg/kg MCERTS < 2.0 A CBC-C11 mg/kg MCERTS < 8.0 A CBC-C12 mg/kg MCERTS < 8.0 A CBC-C13 mg/kg MCERTS < 8.0 A CBC-C13 mg/kg MCERTS < 1.0 A CBC-C13 mg/kg MCERTS < 0.001 A CBC-C13 mg/kg MCERTS < 0.001 A CBC-C13 mg/kg MCERTS < 0.001 A CBC-C14 mg/kg MCERTS < 0.001 A CBC-C14 mg/kg MCERTS < 1.0 A CBC-C14 mg/kg MCERTS < 2.0 A CBC-C14 mg/kg MCERTS < 2.0 A CBC-C14 mg/kg MCERTS < 1.0 A CBC-C14 mg/kg MCERTS < 2.0 A CBC-C15 mg/kg MCERTS < 1.0 A CBC-C15 mg/kg MCERTS < 0.005 A CBC-C1				-		
Aliphatic TPH (C8-C8)	A CBC-CB mg/kg MCERTS < 0.0001 A CBC-C10 mg/kg MCERTS < 0.0001 A CC10-C12 mg/kg MCERTS < 1.0 A CC10-C12 mg/kg MCERTS < 2.0 A CC10-C21 mg/kg MCERTS < 2.0 A CC21-C25 mg/kg MCERTS < 8.0 A A CERTS < 1.0 A A CERTS < 8.0 A A CERTS < 8.0 A A CERTS < 8.0 A A CERTS < 0.001 A A CERTS < 0.005 A A	Alinhatic TPH (C5-C6)	ma/ka	MCERTS	1	0.014	
Aliphatic TPH (C3-C10)	(CB-C10)				1		
Aliphatic TPH (C10-C12)	(C10-C12)				4		
Aliphatic TPH (C10-C12)	(C10-C12)	Aliphatic TPH (C8-C10)	mg/kg		1	< 0.001	
Aliphatic TPH (C12-C16)	HC12-C16 mg/kg MCERTS < 2.0 H(C16-C21) mg/kg MCERTS < 8.0 H(C21-C35) mg/kg MCERTS < 8.0 H(C21-C35) mg/kg MCERTS < 8.0 H(C5-C35) mg/kg MCERTS < 1.0 H(C5-C7) mg/kg MCERTS < 0.0001 H(C7-C8) mg/kg MCERTS < 0.001 H(C8-C10) mg/kg MCERTS < 0.001 H(C10-C12) mg/kg MCERTS < 0.001 H(C11-C12) mg/kg MCERTS < 1.0 H(C12-C16) mg/kg MCERTS < 1.0 H(C12-C16) mg/kg MCERTS < 1.0 H(C12-C16) mg/kg MCERTS < 1.0 H(C16-C27) mg/kg MCERTS < 1.0 H(C16-C27) mg/kg MCERTS < 1.0 H(C16-C35) mg/kg MCERTS < 1.0 H(C21-C35) mg/kg MCERTS < 1.0 H(C31-C35) mg/kg MCERTS < 1.0 H(C31-C35) mg/kg MCERTS < 0.005 Mg/kg				1		
Aliphatic TPH (C16-C21)	(C16-C21)	Aliphatia TDH (C12 C16)			1		
Aliphate TPH (C21-C35)	(C21-C35)	Hilphauc (PH (C12-C10)			1		
Aliphate TPH (C21-C35)	(1/21-235) mg/kg MCERTS < 8.0 (1/25-235) mg/kg MCERTS < 10 (1/25-27) mg/kg MCERTS < 0.001 (1/25-27) mg/kg MCERTS < 1.0 (1/25-27) mg/kg MCERTS < 2.0 (1/25-27) mg/kg MCERTS < 1.0 (1/25-27) mg/kg MCERTS 12 (1/25-27) mg/kg MCERTS 14 (1/25-27) mg/kg MCERTS < 0.005	Aliphatic TPH (C16-C21)	mg/kg	MCERTS		< 8.0	
Aliphatic TPH (C5-C35) mg/kg MCERTS < 10	(C5-C35)		ma/ka	MCERTS	1	< 8.0	
Aromatic TPH (C5-C7)	H(C5-C7)				1		
Aromatic TPH (C7-C8) mg/kg MCERTS < 0.001	H(C7-C8)				1		
Arcmatic TPH (C7-C8)	H(CP-C8)						
Acomatic TPH (C8-C10)	H(C8-C10)		mg/kg	MCERTS	1	< 0.001	
Aromatic TPH (C10-C12)	H(C12-C12)	Aromatic TPH (C8-C10)			1		
Aromatic TPH (C12-C16) mg/kg MCERTS < 2.0 Aromatic TPH (C16-C21) mg/kg MCERTS < 10	H(C12-C16)				1		
Arcmatic TPH (C12-C16) mg/kg MCERTS < 2.0 Arcmatic TPH (C16-C21) mg/kg MCERTS < 10 Arcmatic TPH (C21-C35) mg/kg MCERTS 12 Arcmatic TPH (C5-C35) mg/kg MCERTS 14 Benzene mg/kg MCERTS Coluene mg/kg MCERTS < 0.005 Coluene mg/kg MCERTS < 0.005 Coluene mg/kg MCERTS < 0.005 Arcmatic TPH (C5-C35) mg/kg MCERTS < 0.005 Coluene mg/kg MCERTS < 0.005	H(C12-C16) mg/kg MCERTS < 2.0 H(C16-C21) mg/kg MCERTS < 10 H(C21-C35) mg/kg MCERTS 12 H(C5-C35) mg/kg MCERTS 14						
Aromatic TPH (C16-C21)	H (C16-C21)		mg/kg	MCERTS	1	< 2.0	
Aromatic TPH (C21-C35) mg/kg MCERTS 12 Aromatic TPH (C5-C35) mg/kg MCERTS 14 Benzene mg/kg MCERTS < 0.005	H(C21-C35) mg/kg MCERTS 12 H(C5-C35) mg/kg MCERTS 14	Aromatic TPH (C16-C21)			1		
Aromatic TPH (C5-C35) mg/kg MCERTS 14 Benzene mg/kg MCERTS < 0.005	mg/kg MCERTS 14				ł		
Aromatic TPH (C5-C35) mg/kg MCERTS 14 Benzene mg/kg MCERTS < 0.005	mg/kg MCERTS 14	Aromatic TPH (C21-C35)					
Benzene mg/kg MCERTS < 0.005 Toluene mg/kg MCERTS < 0.005	mg/kg MCERTS < 0.005 mg/kg MCERTS < 0.005 mg/kg MCERTS < 0.005 mg/kg MCERTS < 0.005 mg/kg MCERTS < 0.006 mg/kg MCERTS < 0.005	Aromatic TPH (C5-C35)		MCERTS	1	14	
Toluene	mg/kg MCERTS < 0.005				•		
Toluene	mg/kg MCERTS < 0.005			MOEDTO	1	.0.005	
Ethylbenzene mg/kg MCERTS < 0.005 8 m-xylene mg/kg MCERTS < 0.005	mg/kg MCERTS < 0.005						
Ethylbenzene mg/kg MCERTS < 0.005 p & m-xylene mg/kg MCERTS < 0.005	mg/kg MCERTS < 0.005	Toluene		MCERTS	1	< 0.005	
p.8 m-xylene mg/kg MCERTS < 0.005 o-xylene mg/kg MCERTS < 0.005	mg/kg MCERTS < 0.005 mg/kg MCERTS < 0.005				1		
o-xylene mg/kg MCERTS < 0.005	mg/kg MCERTS < 0.005				1		
o-xylene mg/kg MCERTS < 0.005	mg/kg MCERTS < 0.005						
		o-xylene	mg/kg	MCERTS	1	< 0.005	
	ND/D ISO17025 Not-detected						
Ashastas ND/D ISO17025 Not-detected	NULU ISOTTOZS NOCHOELEU	Asbestos	ND/D	ISO17026	1	Not-detected	

SL = SANDY LOAM

Visual Examination

The sample can be described as very dark grey (Munsell Colour 10YR 3/1), slightly moist, friable, slightly calcareous SANDY LOAM with a weakly developed, very fine to medium and occasionally coarse granular structure. The sample was slightly stoney and contained a high proportion of organic fines and frequent woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

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

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H.MacRae

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