

22nd March 2024

Our Ref: CSG / 18795

Westway Construction Ltd
29 Boston Road
London
W7 3SH

For The Attention Of C.Patel Esq.,

Dear Sir,

Tesco, 103 Bournemouth Road, Southampton, SO53 3AJ : WATCHING BRIEF

Further to your recent instructions, we were asked to attend the above site which was completed on 5th March 2024. The purpose of the inspection was to complete a BRE 365 soakaway field test and review both the geological and hydrological conditions to consider the potential for contamination to be in place.

Historic investigations have been completed by others, (Geo-Logic Ltd – Report Reference P48.0.0 Dated August 2023). The findings of this report confirm that from the testing completed, no obvious risk or contamination has been identified above a residential land use standard, (we are aware that the development is commercial in use).

As part of the review of the site, a watching brief was requested by the client which was completed within this site inspection on 5th March 2024. Factors which we consider within the watching brief were detailed as follows :-

During the development, it will be the responsibility of the on-site manager to ensure watching briefs are kept. A watching brief consists of a record of:

- Any observations of contamination made during development by any member of site staff, contractor, or visitor.
- A photographic record of the key stages of development and key occurrences including any contamination found during the development, the formation levels of excavations, any reduced level dig/mass excavation, formation of landscaped or garden areas, etc.
- Contact the Environmental Engineer and strategic points within the development of the site where contamination validation elements will be required.

In areas of the site where there is a greater chance of finding contaminated soil and/or water an area specific watching brief will need to be kept. Such a brief will need to be completed by an appropriately qualified site manager and/or an environmental consultant. The following table specifies works in specific parts of the site that require an area specific watching brief, identifying who must complete the watching brief.

Table 1 Watching Brief – Targeted areas for observation.

Area of site	Works to be observed	Comments
BRE 365 Excavation	Watching brief for	
50% had been reduced dig	- Asbestos Containing Materials. - Oils. - Ash.	From a review of all excavations and reduced digs at the site have confirmed that no materials are in place which would promote a risk in terms of contamination. The upper soils form a generic topsoil with no ash, clinker, or features that would promote a risk.
Stockpiles exposed	- Clinker. - Brick. - Odour.	The materials identified within both the reduced dig excavations and the material identified through trial pitting and other excavations did not exhibit any signs of anthropologic materials which, again, would promote risk.
Small Excavations	Discolouration.	We do not consider the materials identified at the site based on both a visual and olfactoral review to be a risk that requires any additional review.
Foundations Developed		
Drainage Channels exposed		

Whilst a review of the site was being completed, it was identified that segregation of materials has been completed. This confirms that soils have been placed in stockpiles based on their composition and materials content and are proposed to be disposed of at a suitable time when construction allows. A sample of the soils has been recovered by us to confirm the likely disposal status of these soils for landfilling.

From our inspection of the site, a photographic record has been recorded to confirm and convey the level of risk visually in place. This is shown below :-

Site Reconnaissance – Photos

Print 1 View of site



Print 2 View of site



Print 3 View of reduced dig



Print 4 View of an excavation



Print 5 View of drainage being constructed



Print 6 View of drainage being constructed



Print 7 View of excavation and some surface made around



Print 8 View



Print 9 View of BRE 365 pit



Print 10 View of BRE 365 pit



I hope the foregoing is sufficient for your requirements, although please do not hesitate to contact me should you require any additional information or assistance.

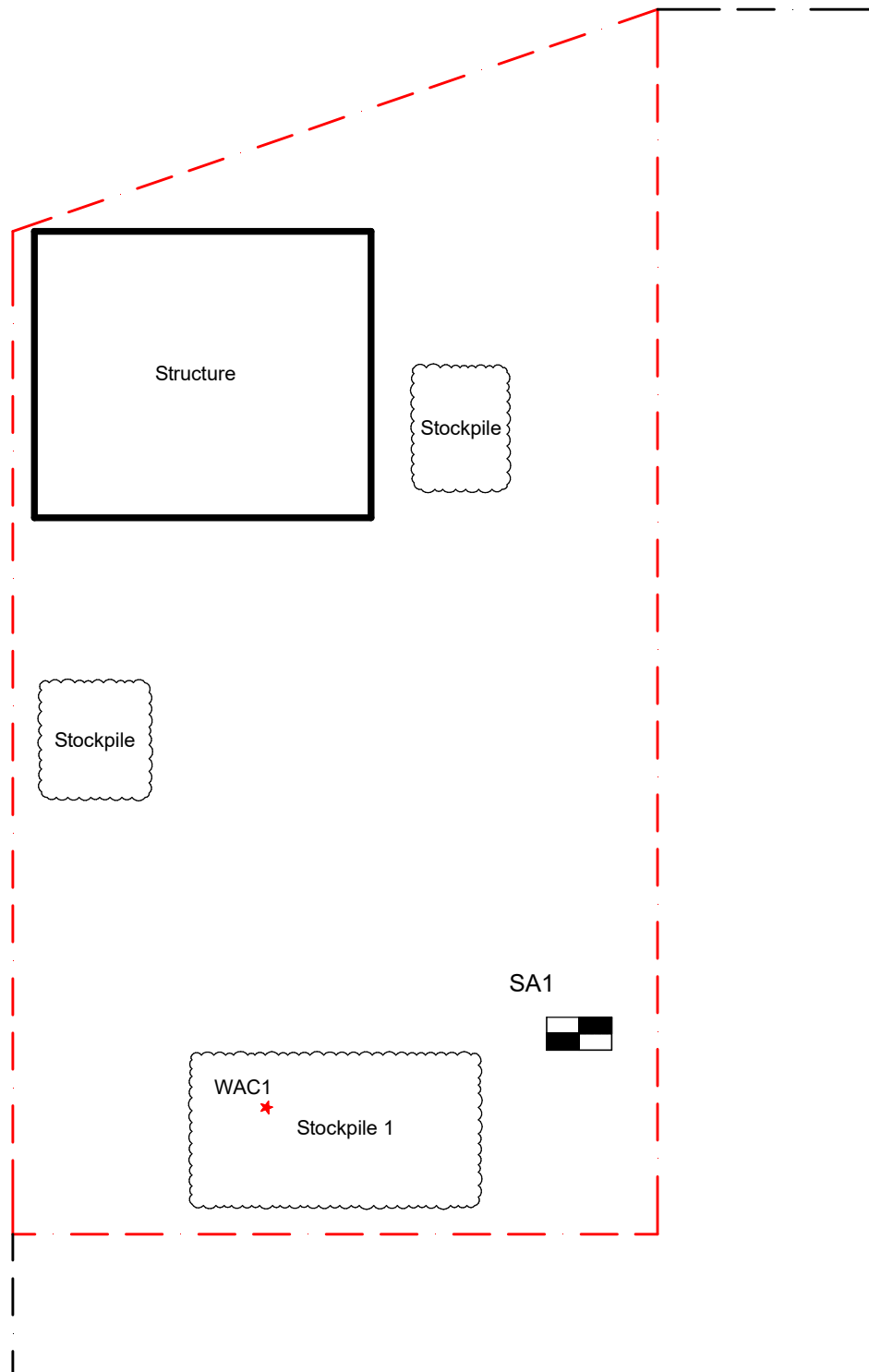
Yours Faithfully,



C.S.Gray P.G.Cert, PG.Dip M.Sc.
Principle Engineer & Managing Director

103 Bournemouth Road, Southampton, SO53 3AJ

Site Plan



Not to Scale



Unit J8 | Peek Business Park | Woodside | Bishops Stortford | CM23 5RG

01920 822233 | www.hesi.co.uk | info@hesi.co.uk

Appendix No	2
Sheet No	1
Job No	18795
Date	Mar 2024

103 Bournemouth Road, Southampton, SO53 3AJ

Soakaway Test Pit One

[illegible]

Remarks

Key : U - Undisturbed Sample
(100mm diameter)

B - Bulk Sample
 - Water Struck

D - Disturbed Sample
 - Water Standing

W - Water Sample
T - Chemical Tub

N - SPT N-Value
V - Vane Test, (kN.m²)

Please note that any testing scheduled where a matrix option is not selected may be subject to Non-Conformance.
Failure to complete all sections of this form may delay analysis.

[illegible]



Final Report

Report No.: 24-07277-1

Initial Date of Issue: 21-Mar-2024

Re-Issue Details:

Client Herts & Essex Site Investigations

Client Address: Unit J8
Peek Business Park
Woodside
Bishops Stortford
Hertfordshire
CM23 5RG

Contact(s): Ben McCulloch
Chris Gray
Dafydd Hudd
Rebecca Chamberlain

Project 18795 103 Bournemouth Road,
Southampton, SO53 3AJ

Quotation No.: **Date Received:** 08-Mar-2024

Order No.: 18795 **Date Instructed:** 08-Mar-2024

No. of Samples: 1

Turnaround (Wkdays): 7 **Results Due:** 18-Mar-2024

Date Approved: 21-Mar-2024

Approved By:



Details: Stuart Henderson, Technical
Manager

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - 2 Stage WAC

Project: 18795 103 Bournemouth Road, Southampton, SO53 3AJ

Chemtest Job No: 24-07277							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 1777698							Limits			
Sample Ref: WAC 1							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID:										
Sample Location: Stockpile 1										
Top Depth(m):										
Bottom Depth(m):										
Sampling Date: 05-Mar-2024										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				1.5	3	5	6
Loss On Ignition	2610	M	%				3.0	--	--	10
Total BTEX	2760	M	mg/kg				< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC (Mineral Oil)								500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH at 20C	2010	M					8.1	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.0090	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	0.0010	0.0021	0.0019	0.020	0.5	2	25	
Barium	1455	U	0.075	0.016	0.15	0.20	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	0.0025	0.0013	0.0049	0.014	0.5	10	70	
Copper	1455	U	0.0053	0.0043	0.010	0.0035	2	50	100	
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2	
Molybdenum	1455	U	0.0053	0.0008	0.011	0.011	0.5	10	30	
Nickel	1455	U	0.0005	< 0.0005	0.0010	< 0.0005	0.4	10	40	
Lead	1455	U	< 0.0005	0.0054	< 0.0005	0.050	0.5	10	50	
Antimony	1455	U	0.0060	0.0013	0.012	0.016	0.06	0.7	5	
Selenium	1455	U	0.0007	< 0.0005	0.0014	< 0.0005	0.1	0.5	7	
Zinc	1455	U	0.008	0.020	0.015	0.19	4	50	200	
Chloride	1220	U	2.3	< 1.0	< 10	< 10	800	15000	25000	
Fluoride	1220	U	0.26	0.14	< 1.0	1.5	10	150	500	
Sulphate	1220	U	30	1.2	59	31	1000	20000	50000	
Total Dissolved Solids	1020	N	190	39	360	490	4000	60000	100000	
Phenol Index	1920	U	0.091	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	10	4.0	< 50	< 50	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	18

Leachate Test Information	
Leachant volume 1st extract/l	0.312
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.116

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable
- PL - Prepared Leachate
- PW - Processed Water

Report Information

RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com