LONDON PARAMOUNT

ENTERTAINMENT RESORT

FACTUAL REPORT ON
GROUND INVESTIGATION

Prepared for LONDON RESORT COMPANY

HOLDINGS LTD

Report Ref: 30766

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Report Ref: 30766

PROJECT: Proposed Entertainment Resort

CONSULTANT: Atkins Ltd

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ORIGINATOR	APPROVER
E LEIVERS Senior Engineering Geologist	E CRIMP Senior Geotechnical Engineer

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1. INTRODUCTION

It is proposed to construct a new entertainment resort on the Swanscombe Peninsula, north Kent. Geotechnical Engineering Limited (GEL) was instructed by Atkins Ltd (the Consultant) acting on behalf of London Resort Company Holdings Ltd (the Client) to act as Principle Contractor and carry out an investigation to determine the ground conditions.

The scope of works and terms and conditions of appointment were specified by the Consultant and GEL correspondence reference T20991. Amendments were made to the original scope of works primarily due to access issues. The investigation was carried out under the direction and supervision of the Consultant.

This report describes the investigation and presents the findings.

2. SITE LOCATION AND GEOLOGY

The site is situated on the south bank of the River Thames at Swanscombe Marshes, 7 kilometres east of Dartford, Kent and is centered on approximate National Grid co-ordinates TQ 603 753.

British Geological Survey (BGS) England and Wales (Sheet No. 271, Dartford, Solid and Drift (1998), 1:50,000) and the BGS online geology (1:50,000) indicate the site is generally underlain by Worked Ground and Made Ground overlying Alluvium. The underlying solid geology comprises the Seaford Chalk Formation and Newhaven Chalk Formation. Superficial deposits of Head and Boyn Hill Gravel are shown to be present in the southern area of the site.

3. GROUND INVESTIGATION

3.1 Fieldwork

The fieldwork was carried out in general accordance with BS5930:1999+A2:2010 during the period 9th June to 3rd July 2015 and comprised twenty-seven boreholes and five machine dug trial pits.

The exploratory hole locations were selected and set out by the Consultant and are shown on Figures 01, 02 and 03. The ground level and co-ordinates at each exploratory hole were established by this Company using GPS techniques.

The site is considered to be in an area that was subjected to significant historic bombing and therefore required an Unexploded Ordnance (UXO) survey. A preliminary risk assessment undertaken by 6 Alpha was provided by the Consultant. The survey comprised on site monitoring by a UXO specialist from 1st Line Defence Ltd. Down-hole magnetometry was undertaken at fifteen borehole locations. A UXO watching brief was provided for all trial pit locations. The use of the magnetometer and the extent of the down-hole survey is described on the relevant exploratory hole records in Appendix A.

Cable Percussion with Pioneer follow-on

The boreholes, referenced BH101, BH202, BH203 and BH204 (Appendix A), were formed using a light cable tool (shell and auger) rig utilising 300mm (or 200mm in BH203) tools and casing, reducing to 200mm (or 150mm in BH203) as the boreholes were advanced. Initially, an inspection pit was hand excavated at each borehole location to a depth of 1.20m to check for buried services. The boreholes were advanced using a clay cutter and bailer with the occasional use of a heavy chisel to assist boring.

Clean drilling techniques were required to protect the underlying formation in boreholes BH101, BH202 and BH204. In each case, the borehole was initially advanced through Made Ground using 300mm diameter tools and casing. A 250mm diameter sacrificial plastic casing was then installed to the base of the hole with a cement:bentonite grout surround and the 300mm casing withdrawn. Once the grout had cured, the borehole was then continued using 200mm diameter tools and casing. Details are presented on the relevant borehole logs in Appendix A.

Disturbed samples of the arisings were taken and retained in plastic bags and airtight containers. Undisturbed samples of 100mm nominal diameter were taken in suitable cohesive soils using a thin walled, open drive sampler (UT100). Samples were wax sealed and capped on site to prevent moisture loss.

On instruction from the Consultant, boreholes BH101 and BH204 were then advanced using heavy duty dynamic sampling techniques to produce continuous disturbed samples of 112mm diameter (BH204) and 97mm diameter (BH101). The samples were recovered in semi-rigid plastic liner.

On refusal to dynamic sampling, BH101 was advanced using wireline rotary coring techniques utilising a double-tube swivel core barrel with a semi-rigid plastic liner to recover continuous cores of 102mm diameter.

On refusal to dynamic sampling, BH202 was advanced by conventional rotary core drilling techniques utilising a double-tube swivel core barrel with a semi-rigid plastic liner to recover continuous cores of 120mm nominal diameter as described in Appendix A.

Dynamic sampling with rotary follow-on

The boreholes, referenced BH201, BH501, BH502 and BH703 to BH708 (Appendix A), were formed using a track-mounted Geotechnical Pioneer Rig. Initially, an inspection pit was hand excavated at each borehole location to a maximum depth of 1.20m to check for buried services. Disturbed samples were taken and retained in a combination of plastic tubs, bags and glass jars. Heavy duty dynamic sampling techniques were then employed to produce a continuous disturbed sample of 112mm nominal diameter reducing to 97mm (except BH201) as the borehole was advanced. The samples were recovered in semi-rigid plastic liner.

On refusal to dynamic sampling the boreholes BH201, BH501, BH502, BH706 and BH708 were continued by rotary core drilling techniques utilising a water or polymer flush. A double-tube swivel core barrel with a semi-rigid plastic liner was utilised to recover continuous cores of 90mm diameter (or 120mm in BH201). Where appropriate, dynamic sampling techniques were carried out to recover dropped core or where rotary core drilling was not suitable.

The dynamic samples and rotary cores were extracted horizontally from the sampler and core barrel respectively, the semi-rigid liner was cut to length and caps placed at each end to retain moisture. All samples and core were retained in sequence in labelled, wooden coreboxes.

Undisturbed samples of 100mm nominal diameter were taken in suitable cohesive soils using a thin walled, open drive sampler (UT100). Samples were wax sealed and capped on site to prevent moisture loss.

Undisturbed samples of suitable materials were also sub-sampled from the rotary cores. Samples were cleaned and trimmed to remove extraneous material and drilling fluid, wrapped in foil and cling film, and wax sealed to prevent moisture loss.

Dynamic sampling

The boreholes, referenced WS101, WS102, WS201G, WS202, WS203, WS204, WS301 and WS301C (Appendix A), were formed using a Terrier 2000 rig. Initially, an inspection pit was hand excavated at each borehole location to a maximum depth of 1.20m to check for buried services. The inspection pits WS201, WS201A to WS201F, WS301A and WS301B were terminated due to obstructions. Disturbed samples were taken and retained in a combination of plastic tubs, bags and glass jars. Dynamic sampling techniques were then employed to produce a continuous disturbed sample of 97mm or 70mm diameter reducing to 70mm or 50mm respectively as described on the relevant borehole log. The samples were recovered in semi-rigid plastic liner.

The samples were extracted horizontally from the sampler, labelled and caps placed each end to retain moisture.

Undisturbed samples of 70mm nominal diameter were taken in suitable cohesive soils using an open drive sampler (U70). Samples were wax sealed and capped on site to prevent moisture loss.

In Situ Testing

Standard penetration tests (SPT) were carried out in all boreholes in general accordance with BS EN ISO 22476-3:2005+A1:2011. A split barrel or a solid cone was used depending upon the materials encountered and the split barrel samples retained in airtight jars. The SPT N value was taken as the number of blows to penetrate the 300mm test drive following a 150mm seating drive. Where low penetration was recorded the seating drive was terminated at 25 blows and the test drive completed after a further 100 blows. Detailed SPT results, together with the energy ratio (E_r), are presented in Appendix A and summarised as uncorrected N values on the borehole logs.

Variable head permeability tests were carried out in BH202 to BH204 in general accordance with the procedures given in BS5930:1999+A2:2010. Falling head tests were carried out by topping up the borehole with clean water. Coefficients of permeability were calculated using the BS5930:1999+A2:2010 general approach/time lag method (after Hvorslev) and the results are presented in Appendix A.

Groundwater Ingress

Boreholes were monitored for groundwater ingress as drilling proceeded. Upon encountering water, sampling was temporarily stopped to allow the level to stabilise and, where possible, water samples to be taken. Water levels were also recorded at the start and finish of each day's work and are presented on the relevant log.

Gas/Groundwater Monitoring

On completion gas/water monitoring standpipes were installed in selected boreholes as instructed by the Consultant. Each installation consisted of a 50mm ID HDPE slotted tube set in a filter response zone of non-calcareous pea gravel. The installation was sealed above and below with a bentonite plug (WS102 and WS204 were sealed above only) and accessed via a valve assembly. The installations were protected at the surface by a lockable, galvanised steel borehole helmet cover or flush cover (boreholes BH705 and BH708) set in concrete. Selected boreholes were further protected by a 900mm diameter concrete ring placed around the headworks. Installation details are given on the relevant borehole log.

On completion, all other boreholes were backfilled with a combination of arisings and bentonite pellets and the surface reinstated.

The installations were tested for carbon dioxide, methane, oxygen, hydrogen sulphide and carbon monoxide using a Gas Analyser GFM 435. Installations were monitored for gas flow using a flow pod attached to the instrument and reported as gas flow in litres/hour. Subsequent readings are presented in Appendix A.

The installations were also monitored for Volatile Organic Compounds (VOC's) using a MiniRAE 2000 Portable Photo-Ionisation Detector (PID) with a 10.6eV gas discharge lamp. The detector uses an ultra violet light source to break down the chemicals into positive and negative ions (ionisation). The detector measures the charge of the ionised gas and converts the signal into current. The current is then amplified and displayed as "ppm"; after measurement the ions reform the original gas or vapour allowing it to be sampled.

Prior to water sampling, the water monitoring standpipes were developed by bailing and then purged until at least three well volumes of water had been removed.

Surface water samples were collected at five locations, referenced SW01 to SW05, as directed by the Consultant.

The trial pits, referenced TP201, TP301, TP302, TP701 and TP702 (Appendix A), were formed by a wheeled excavator with a 0.60m wide backactor bucket.

Representative disturbed samples were taken and retained in sealed plastic bags and airtight containers to retain moisture content.

Hand vane and pocket penetrometer tests were carried out in suitable cohesive material. The results are presented on the trial pit logs and tabulated in Appendix A.

Photographs of the trial pit profile and spoil heap were taken and are presented separately.

Samples for chemical analyses were dispatched directly to i2 Analytical Ltd under a Chain of Custody. The remaining samples were brought to this Company's laboratory for testing and storage.

3.2 Logging

The logging of soils and rocks was carried out by an Engineering Geologist in general accordance with BS5930:1999+A2:2010 and CIRIA C574. A key to the exploratory hole logs is presented in Appendix A.

Detailed descriptions of the core and samples are given in the borehole logs, Appendix A, along with details of sampling, in situ testing, groundwater ingress and relevant comments on drilling techniques.

Prior to logging, photographs of the core were taken and are presented separately.

The trial pits were logged in situ to a depth of approximately 1.20m and thereafter from the surface. Detailed descriptions are given in the trial pit logs, Appendix A, along with details of sampling and in situ testing, groundwater ingress and relevant comments on stability.

Samples taken for contamination testing were monitored for Volatile Organic Compounds (VOC's) using a MiniRAE 2000 Portable Photo-Ionisation Detector (PID) with a 10.6eV gas discharge lamp. The detector uses an ultra violet light source to break down the chemicals into positive and negative ions (ionisation). The detector measures the charge of the ionised gas and converts the signal into current. The current is then amplified and displayed as "ppm"; after measurement the ions reform the original gas or vapour allowing it to be sampled. The readings are presented on the borehole logs in Appendix A.

3.3 Laboratory Testing

A schedule of laboratory tests was prepared by the Consultant, the following tests being carried out in accordance with BS1377:1990, unless stated otherwise. The number in brackets refers to the test number given in that standard. The results are presented in Appendix B.

The natural water content was determined on eighty-one selected samples in accordance with BS EN ISO 17892-1:2014.

The natural moisture content [Part 2:3.2] was determined on forty-seven selected samples.

The saturated moisture content [Part 2:3.3] was determined on nineteen selected samples.

Liquid limit, plastic limit and plasticity index tests [Part 2:4.3, 5.3 and 5.4] were carried out on seventy-four selected samples. Atterberg line plots have also been presented.

The linear shrinkage tests [Part 2:6.5] was carried out on one selected cohesive sample.

The bulk density was determined on three samples by the linear measurement method in accordance with BS EN ISO 17892-2:2014-5.1.

The bulk density was determined on two samples by the immersion in fluid method in accordance with BS EN ISO 17892-2:2014-5.2.

The bulk density was determined on two samples by the linear measurement method [Part 2:7.2].

Particle size distributions were determined for eighty-four samples by wet sieving [Part 2:9.2]. The fine fractions of thirty of these samples were further analysed by sedimentation using the pipette method [Part 2:9.4]. The fine fractions of twenty-eight samples were further analysed by sedimentation using the hydrometer method [Part 2:9.5]. The results are presented as grading curves.

The compaction characteristics of three selected soil samples were investigated using a 2.5kg rammer [Part 4:3.2 and 3.3/3.4]. The results are presented as a plot of dry density against moisture content.

The one-dimensional consolidation properties [Part 5:3] were determined in the oedometer on two 63.5mm diameter by 19mm thick specimens prepared from UT100 samples. The results are presented in tabular form and also as graphs of void ratio versus log (effective pressure).

Four specimens were prepared from dynamic samples remoulded at received moisture content. Three sub-specimens, each 63.5mm diameter in plan were tested at different normal stresses, specified by the Consultant, in the small shear box apparatus [Part 7:4].

Two selected samples were subsampled to provide specimens which had their permeability determined in the triaxial cell [Part 6:6]. The specimens were of nominal sizes 100mm in diameter by 100mm in height. The specimens were installed in the cell and were saturated by increments of cell pressure and back pressure applied alternatively. The specimen was then consolidated to the required effective stress and then subjected to a pressure difference to cause water to flow downward through the specimen. The permeability was determined once steady state conditions were achieved, i.e. the flow of water into the specimen equals the flow of water out. The results of one of these tests are to follow.

Unconsolidated undrained triaxial compression tests were carried out under a single cell pressure on seven specimens prepared from full diameter U70 or UT100 samples [Part 7:8]. A cell pressure specified by the Consultant was used. Fully saturated, $\phi_u = 0$, conditions were assumed and the undrained cohesion, c_u was taken as half the deviator stress at failure.

A single unconsolidated undrained multistage triaxial compression test was carried out on one specimen prepared from a full diameter UT100 sample [Part 7:9]. The cell pressures for each stage of the test were specified by the Consultant. Fully saturated, $\phi_u = 0$, conditions were assumed and the undrained cohesion, c_u, for each stage was taken as half the maximum deviator stress.

Consolidated drained triaxial compression tests with measurement of volume change [Part 8:4, 5, 6, 8 and Head (1986)] were carried out on four full diameter specimens prepared from UT100 samples.

A single consolidated undrained multistage triaxial compression test with pore-water pressure measurements [Part 8:4, 5, 6, 7 and Head (1986)] was carried out on one set of three 38mm diameter specimens prepared from a UT100 sample.

Seven rock cores were tested for their unconfined compressive strength in accordance with ISRM (1981).

Point load index tests were carried out on thirty-one selected lengths of core in accordance with ISRM (1985).

Five undisturbed samples were extruded, split, photographed and described in accordance with BS5930:2010.

The BRE SD1 (2005) suite of tests was carried out on one sample by Chemtest Limited using in-house methods.

The BRE SD1 (2005) reduced suite; water soluble sulphate, total sulphate and total sulphur, together with pH were determined for six soil samples by i2 Analytical Limited using in-house methods.

The organic matter content was determined for seven selected samples by i2 Analytical Limited using in-house methods, three samples by Chemtest Limited and two samples by ESG.

GEOTECHNICAL ENGINEERING LIMITED

4. REFERENCES

British Standards Institution (2010): Code of practice for site investigations. BS 5930 incorporating Amendments No. 1 & 2. BS5930: 1999+A2:2010. Amendment 1 removes text superseded by BS EN ISO 14688-1:2002, BS EN ISO 14688-2:2004 and BS EN ISO 14689-1:2003, and makes reference to the relevant standard for each affected sub clause. Amendment 2 removes text superseded by BS EN 22475-1:2006 and makes reference to the relevant standard for each affected sub clause.

British Standards Institution (1990): Methods of tests for soils for civil engineering purposes. BS 1377 Parts 1-9.

British Standards Institution (2014): Geotechnical investigation and testing – Laboratory testing of soil. Part 1: Determination of water content. BS EN ISO 17892-1:2014.

British Standards Institution (2014): Geotechnical investigation and testing – Laboratory testing of soil. Part 2: Determination of bulk density. BS EN ISO 17892-1:2014.

British Standards Institution (2012): Geotechnical investigation and testing. Field testing. Standard penetration test. BS EN ISO 22476-3:2005+A1:2011.

Building Research Establishment (2005): Concrete in aggressive ground. BRE Special Digest 1. Third Edition.

CIRIA Publication C574 (2002): The engineering properties of chalk.

ISRM (1981). Suggested methods for rock characterisation, testing and monitoring, edited by E T Brown. Pergamon Press.

ISRM Suggested method for determining point load strength, revision to ISRM suggested method (1985). Pergamon Press.

Head K H (1986): Manual of Soil Laboratory Testing. Volume 3 – Effective Stress Tests. Pentech Press.

Key.

- Borehole Location
- Window Sample Location
- Trial Pit Location
- Surface Water Sample Location

Notes:

Drawing supplied by client.

geotechnical

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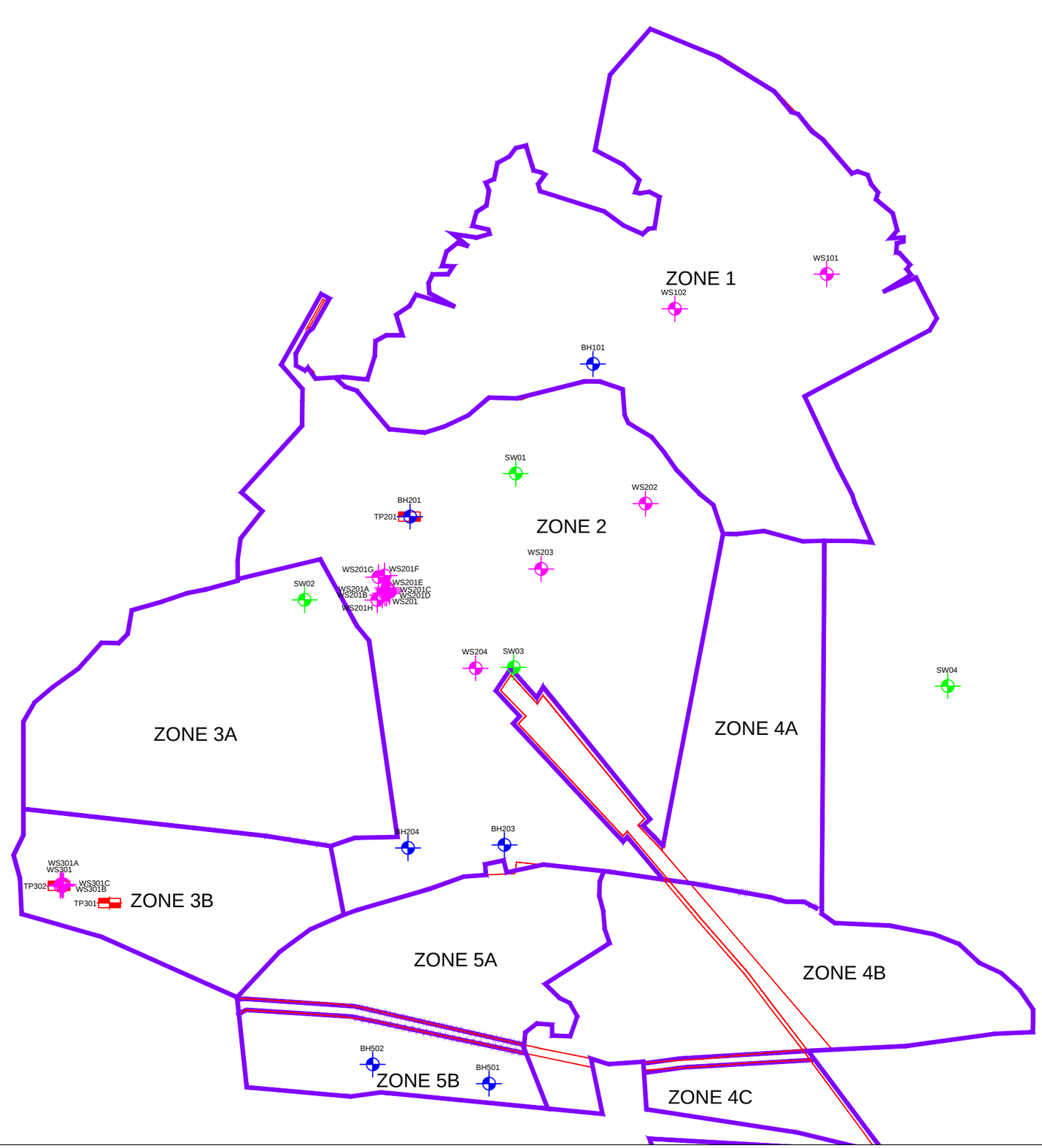
Client: London Resort Company Holdings Ltd			
Engineer: Atkins			
Site: London Paramount Entertainment Resort			
Title: Exploratory Hole Location Plan			
Drawn By: MPE	**Checked By:** ELE	**Paper Size:** A3	
Scale: 1/20,000	**Date:** August 2015		
Contract: 30766	**Figure:** 01		



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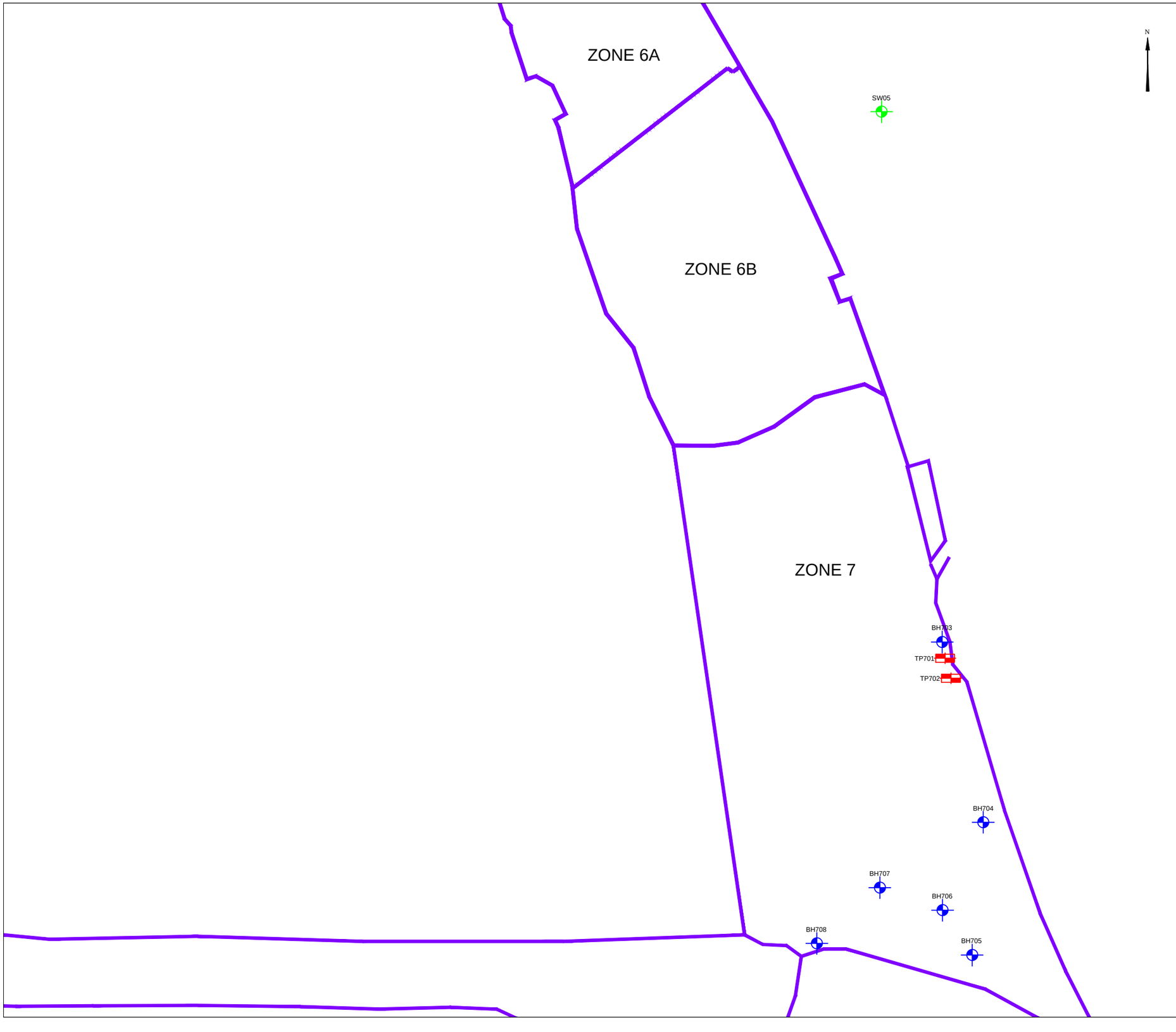
Title:	Exploratory Hole Location Plan

Drawn By:	MPE	Checked By:	ELE	Paper Size:	A3
Scale:	1/8000	Date:	August 2015		
Contract:	30766	Figure:	02		



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Title: Exploratory Hole Location Plan			
Drawn By: MPE	**Checked By:** ELE	**Paper Size:** A3	
Scale: 1/8000	**Date:** August 2015		
Contract: 30766	**Figure:** 03		

APPENDIX A

FIELDWORK DATA

Geotechnical Engineering Limited

KEY TO EXPLORATORY HOLE LOGS

Sample type

D Small disturbed	D* Contamination	B Bulk disturbed	LB Large bulk disturbed	W Water	Cs Core subsample (prepared)
X Dynamic	C Core	U Undisturbed	UT Undisturbed thin wall	P Piston	Xs Dynamic subsample (prepared)

Test type

S SPT - Split spoon sampler followed by uncorrected SPT 'N' Value
C SPT - Solid cone followed by uncorrected SPT 'N' Value
(*250 - Where full test drive not completed, linearly extrapolated 'N' value reported, ** - Denotes no effective penetration)

H Hand vane - direct reading in kPa - not corrected for BS1377 (1990). Re* denotes refusal
M Mackintosh probe - number of blows to achieve 100mm penetration
PP Pocket penetrometer - direct reading in kg/sq.cm
Vo Headspace vapour reading, uncorrected peak values in ppm, using a PID (calibrated with Isobutylene, using a 10.6eV bulb)

Sample/core range/I_f

Dynamic sample

Undisturbed sample - open drive including thin wall. Symbol length reflects recovery

x x = Total Core Recovery (TCR) as percentage of core run

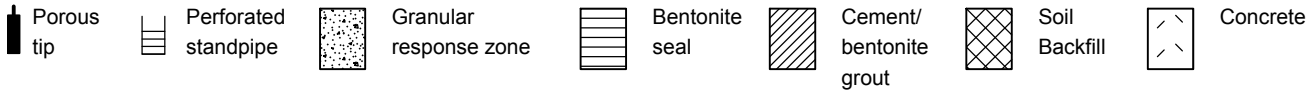
y y = Solid Core Recovery (SCR) as percentage of core run. Assessment of core is based on full diameter.

z z = Rock Quality Designation (RQD). The amount of solid core greater than 100mm expressed as percentage of core run.

Where SPT has been carried out at beginning of core run, disturbed section of core excluded from SCR and RQD assessment.

I_f - fracture spacing - the average fracture spacing (mm) over the indicated length of core. Where spacing varies signficantly, the minimum, average and maximum values are given. NI = non-intact core NA = not applicable

Instrumentation



Stratum boundaries

Estimated boundary

Grading boundary

Logging

The logging of soils and rocks has been carried out in general accordance with BS 5930:1999 incorporating Amendments 1 (2006) & 2 (2010). Amendment 1 removes text superceded by BS ENO ISO 14688-1:2002, BS EN ISO 14688-2:2004 and BS EN ISO 14689-1:2003, and makes reference to the relevant standard for each affected sub clause. Amendment 2 removes text superceded by BS EN ISO 22475-1:2006 and makes reference to the relevant standard for each affected sub clause.

Chalk is logged in general accordance with Lord et al (2002) CIRIA C574. Where possible, dynamic samples in chalk have been logged in accordance with CIRIA C574; descriptions and gradings should be treated with caution given the potential for sample disturbance.

For rocks the term fracture has been used to identify a mechanical break within the core. Where possible incipient and drilling induced fractures have been excluded from the assessment of fracture state. Where doubt exists, a note has been made in the descriptions. All fractures are considered to be continuous unless otherwise reported.

Made Ground is readily identifiable when, within the material make up, man made constituents are evident. Where Made Ground appears to be reworked natural material the differentiation between in situ natural deposits and Made Ground is much more difficult to ascertain. The interpretation of Made Ground within the logs should therefore be treated with caution.

The descriptors "topsoil" and "tarmacadam" are used as generic terms and do not imply conformation to any particular standard or composition.

General Comments

The process of drilling and sampling will inevitably lead to disturbance, mixing or loss of material in some soil and rocks.

Indicated water levels are those recorded during the process of drilling or excavating exploratory holes and may not represent standing water levels.

Legends are drawn in accordance with BS 5930:1999 incorporating Amendment 2.

All depths are measured along the axis of the borehole and are related to ground level at the point of entry.

Geotechnical Engineering Limited

BOREHOLE LOG

BH101

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 7

Start Date 18 June 2015 — Easting 560528.1 — Scale 1 : 50

End Date 30 June 2015 — Northing 176118.8 — Ground level 5.05mOD — Depth 60.20 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
18/06/15 0730hrs	1B	0.30							0.00 - 0.40m: Driller notes rags, wood and concrete. Firm friable brown mottled black, reddish brown, white and grey slightly sandy slightly gravelly CLAY with frequent rootlets (up to 1mm diameter). Gravel is subangular and subrounded fine and medium flint, chalk, rarely brick and charcoal. (MADE GROUND)			
	2D*	0.30			Vo 0.0							
	3B	0.50										
	4D*	0.50			Vo 0.0							
	5B	1.00								1.00	4.05	
	6D*	1.00			Vo 0.0				Soft brown mottled grey and orangish brown slightly sandy gravelly CLAY with rare rootlets (up to 1mm diam). Gravel is subangular to rounded fine to coarse flint and rare brick and concrete. (MADE GROUND) 1.20 - 1.40m: Poorly cemented Cement Kiln Dust (CKD).			
		1.20 - 1.65		Nil	C 7					1.40	3.65	
	7B	1.20 - 1.30										
	8B	1.40 - 1.60										
	9D*	1.40			Vo 0.0							
	10D*	1.50			Vo 3.5							
	11D*	2.00			Vo 2.0				Very soft to soft dark brown mottled brown slightly sandy silty CLAY with cobble sized piece of clay piping. Hydrocarbon odour. (MADE GROUND)			
	12UT	2.20	2.65	2.20								
	13B	2.40	2.60									
	14D*	2.40			Vo 0.0							
	15D	2.65							2.65 - 2.80m: Strong odour (drillers' description).			
	16W	2.80								3.00	2.05	
	17B	3.00	3.20						Loose off-white and dark brownish grey mottled orange brown slightly sandy GRAVEL. Gravel is angular to subangular fine to coarse clinker, ash and cemented Cement Kiln Dust (CKD). (MADE GROUND)			
	18D*	3.00			Vo 0.0							
		3.20 - 3.65		3.00	C 2							
	19B	4.00	4.20									
	20D*	4.00			Vo 0.0							
		4.20 - 4.65		4.20	C<1							
	21D*	4.50			Vo 0.0					4.70	0.35	
	22B	5.00	5.20						Very soft dark greyish brown gravelly silty CLAY with frequent fibrous partially decomposed organic material. Gravel is subangular and subrounded fine and medium white flint. (ALLUVIUM)			
	23D*	5.00			Vo 0.0							
	24UT	5.20	5.65	5.20								
	25D*	5.50			Vo 0.0					5.60	-0.55	
18/06/15 1730hrs 0.00m	26D	5.65							Plastic brownish grey pseudofibrous PEAT. (ALLUVIUM (PEAT))			
	27B	6.00	6.20									
	28D*	6.00			Vo 0.0							
19/06/15 0730hrs 0.00m	29D	6.20	6.65	6.00	S 2					6.90	-1.85	
	30B	7.00	7.20						Very soft greyish brown silty CLAY with frequent part decomposed fibrous organic fragments. (ALLUVIUM (PEAT))			
	31D*	7.00			Vo 0.0							
	32UT	7.20	7.65	7.20								
	33D	7.65										
	34B	8.00	8.20									
									Continued Next Page	{8.00}		

EQUIPMENT: Light cable percussive (shell and auger) rig and Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Cable percussion (300mm) 1.20-6.00m and (200mm) 6.00-22.50m. Dynamic sampled (113mm) 22.50-26.20m. Rotary core drilled (146mm wireline) 26.20-60.20m using a water flush.

CASING: 300mm diam to 6.00m, 250m diam HDPE sacrificial grouted in to 6.00m (300mm diam withdrawn), 200mm diam to 22.50m, 168mm diam to 27.50m and 140mm diam to 60.20m.

BACKFILL: On 30/06/2015, borehole backfilled with bentonite pellets 60.20-40.50m. A slotted standpipe (50mm) with geosock was installed to 40.00m, granular response zone 40.50-24.50m, bentonite seal 24.50-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-10.65m. No anomalies encountered. Driller notes reduced flush returns 28.50-45.20m (65-75% returned) and 45.20-60.20m (10-20% returned). Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
1.10	Nil	0.80	20	Fast inflow.

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 7

Start Date 18 June 2015 — Easting 560528.1 — Scale 1 : 50

End Date 30 June 2015 — Northing 176118.8 — Ground level 5.05mOD — Depth 60.20 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	35D*	8.00			Vo 0.0							
	36D	8.20	8.65	8.00	S 1							
	37D	8.20								8.50	-3.45	
	38D*	8.50			Vo 0.0				Very soft brownish grey mottled black peaty silty CLAY. (ALLUVIUM (PEAT))			
	39B	9.00	9.20							9.00	-3.95	
	40D*	9.00			Vo 0.0				Dark brown pseudofibrous PEAT with rare pockets (up to 40mm) of soft grey silty clay. (ALLUVIUM (PEAT))			
	41UT	9.20	9.65	9.20								
	42D	9.65										
	43D*	10.00			Vo 0.0							
	44B	10.20	10.40									
	45D	10.50	10.95	10.50	S 1							
	46D	10.50										
	47B	11.00	11.20							10.90	-5.85	
	48D*	11.00			Vo 0.0				Very soft light grey mottled brown and black peaty silty CLAY. (ALLUVIUM (PEAT))			
	50UT	12.00	12.45	12.00								
	49B	12.00	12.20									
	52D*	12.00			Vo 0.3							
	53D	12.45										
	51B	13.00	13.20							13.00	-7.95	
	54D*	13.00			Vo 0.0				Plastic grey and brown pseudofibrous PEAT. (ALLUVIUM (PEAT))	13.30	-8.25	
	55B	13.30	13.50									
	56D*	13.30			Vo 0.1				Firm brown and black fibrous PEAT with pockets (up to 60mm) of very soft light grey silty clay. (ALLUVIUM (PEAT))			
	57D	13.50	13.95	13.00	S 6							
	58D	13.50								13.90	-8.85	
	59B	14.00							Soft brown and grey very sandy peaty silty CLAY. (ALLUVIUM (PEAT))			
	60D*	14.00			Vo 0.1							
	61D*	14.80			Vo 0.0					15.00	-9.95	
	64B	15.00							Soft greyish brown slightly gravelly sandy silty CLAY. Gravel is subangular to rounded fine to coarse flint. (ALLUVIUM (PEAT))			
	UT	15.00	15.45									
	62B	15.00	15.45		Vo 0.0							
	63D*	15.00										
	65B	16.00	16.20							16.00	-10.95	
19/06/15 1730hrs 7.10m	66D*	16.00			Vo 0.2				Loose brownish grey gravelly silty SAND. Gravel is subangular and subrounded fine and medium flint. (RIVER TERRACE DEPOSITS)			
22/06/15 0730hrs 4.80m		16.50	16.95	16.50	C 7							
	67B	17.00	17.20							17.00	-11.95	
	68D*	17.00			Vo 0.0				Dense greyish brown locally yellowish brown slightly silty sandy GRAVEL. Gravel is subangular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)			
		18.00	18.45	18.00	C 35							
									Continued Next Page	{18.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks
13.90	10.50	10.40	20	

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 7

Start Date 18 June 2015 — Easting 560528.1 — Scale 1 : 50

End Date 30 June 2015 — Northing 176118.8 — Ground level 5.05mOD — Depth 60.20 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	69B	18.00 - 18.20									
	70D*	18.00		Vo 0.4							
									18.80	-13.75	
	71B	19.00 - 19.20						Dense brownish grey slightly gravelly fine to coarse SAND. Gravel is subangular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)			
	72D*	19.00		Vo 0.4							
		19.50 - 19.95	19.50	C 40							
	73B	20.00 - 20.20							20.00	-14.95	
	74D*	20.00		Vo 0.3				Brown locally orangish brown and white sandy GRAVEL. Gravel is subangular to rounded fine to coarse flint. (RIVER TERRACE DEPOSITS)			
									20.80	-15.75	
	75D	21.00 - 21.45	21.00	S 7				White CHALK recovered as sandy silty subangular to rounded fine to coarse chalk and rare flint GRAVEL.			
	76B	21.00 - 21.20									
	77D	21.00		Vo 0.3							
	78D*	21.00									
	79B	22.00 - 22.20									
	80D*	22.00		Vo 0.2							
22/06/15 1730hrs 5.00m	81D	22.50 - 22.95	22.50	S 5							
	82D	22.50							22.50	-17.45	
25/06/15 1200hrs 2.60m	83X	22.50 - 24.00						Structureless CHALK composed of white and off-white slightly sandy gravelly SILT. Gravel is angular to subrounded fine to coarse very weak medium density white chalk. (Probably CIRIA Grade Dm) 22.90 - 23.00m: Subangular chalk cobble.			
	84D*	23.40 - 23.50		Vo 0.0							
	85D*	23.90 - 24.00		Vo 0.0							
	86D	24.00 - 24.45	22.50	S 26							
	87X	24.00 - 25.50									
	88D*	25.00 - 25.10		Vo 0.0							
	89D	25.50 - 25.95	23.30	S 53				25.40m: Tabular grey flint.			
	90X	25.50 - 26.20									
	91D*	26.00 - 26.10		Vo 0.0				26.00 - 26.10m: Gravel sized flint.			
	92C	26.20 - 27.00	26.20		53 0 0						
									26.65	-21.60	
								Structureless CHALK composed of white slightly sandy silty angular to subrounded fine to coarse GRAVEL. Clasts are extremely weak low and medium density. Matrix is white. (CIRIA Grade Dc) 27.00 - 27.10m: Cobble sized black nodular flint.	27.10	-22.05	
	93C	27.00 - 28.50	27.00		99 0 0			Extremely weak medium density white with rare brown specks CHALK. Fractures are subhorizontal to 30° and 75° to subvertical extremely closely and very closely			
								Continued Next Page	{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 4 of 7

Start Date 18 June 2015 — Easting 560528.1 — Scale 1 : 50

End Date 30 June 2015 — Northing 176118.8 — Ground level 5.05mOD — Depth 60.20 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
								spaced undulating smooth locally stained with light grey marl rarely stained orange. (CIRIA Grade B5 to B4) 27.20 - 27.30m: Cobble sized black nodular flint. 27.70 - 27.75m: Coarse gravel sized rinded nodular flint.	28.20	-23.15	
	94D	28.50 - 28.95	28.50	S 84							
	95C	28.50 - 30.00			97 0 0			Structureless CHALK recovered as slightly sandy gravelly angular to subrounded COBBLES. Clasts are extremely and very weak medium density white with rare grey marl staining. Matrix is white and light greyish white. (CIRIA Grade Dc) 28.20 - 28.25m: Coarse gravel sized rinded nodular flint. 28.50 - 28.55m: Coarse gravel sized rinded nodular flint. 28.95m: Medium gravel sized rinded nodular flint.			
25/06/15 1730hrs 9.85m											
26/06/15 0815hrs 9.80m	96C	30.00 - 31.00	30.00		67 29 18	NI 140 190		Extremely and very weak medium density white CHALK. Fractures are subhorizontal to 15° and 70° to subvertical closely spaced planar smooth infilled (up to 15mm) with angular fine chalk gravel and white silt frequently with a veneer of grey marl, rare orange staining. (CIRIA Grade C3)	30.10	-25.05	
	97Cs	30.20									
	98C	31.00 - 31.70	31.00		47 40 33			31.00 - 31.15m: Cobble sized nodular black flint recovered non-intact. 31.25 - 32.30m: Subvertical fractures not observed. 31.40m: Calcite band (up to 2mm thick). 31.60m: Fracture surface with a veneer of greyish green marl (up to 2mm). 31.90 - 41.10m: Flint gravel recovered non-intact.			
	99Cs	31.45									
		31.70 - 31.93	31.70	C*222							
	100C	31.70 - 33.20			96 65 65						
						70 170 320		Very weak medium density white CHALK with frequent thin laminae and wisps of light grey marl. Fractures are subhorizontal to 20° closely and medium spaced planar striated infilled (up to 2mm) with grey marl. (CIRIA Grade B3 to B2) 32.40 - 32.45m: Flint gravel recovered non-intact.	32.30	-27.25	
	101Cs	32.70 - 32.95									
	102Cs	33.05									
	103C	33.20 - 34.70	33.20		100 67 40			33.40 - 33.50m: Flint gravel recovered non-intact. 33.55 - 33.70m: 60° fracture planar smooth with light grey marl veneer. 33.90m: Medium flint gravel. 34.05m: Gravel sized flint.			
	104Cs	34.20									
	105Cs	34.45 - 34.70				80 170 490		Very weak low and medium density white CHALK with rare wisps of grey marl. Fractures are subhorizontal to 15° closely and medium spaced undulating smooth infilled (up to 3mm) with a veneer of grey and dark grey marl. Rare fine to coarse gravel sized rinded nodular flint. (CIRIA Grade B3 to B2) 35.00m: Subhorizontal fracture surface stained grey with up to 4mm penetrative discolouration.	34.35	-29.30	
		34.70 - 34.82	34.70	C*400							
	106C	34.70 - 36.20			100 89 79						
	107Cs	35.70									
	108Cs	35.95 - 36.20									
	109C	36.20 - 37.70	36.20		59 49 0			36.20 - 37.70m: Limited recovery, core loss presumed to be chalk, not recovered due to flint jamming in the core barrel. 36.55m: Cobble sized nodular black flint recovered non-intact. 36.75m: Cobble sized black nodular flint recovered non-intact. 37.05m: Cobble sized black nodular flint recovered non-intact.			
	110Cs	37.40 - 37.60									
		37.70 - 37.88	37.70	C*316							
	111C	37.70 - 39.20			93 74						
								Continued Next Page	{38.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 5 of 7

Start Date 18 June 2015 — Easting 560528.1 — Scale 1 : 50

End Date 30 June 2015 — Northing 176118.8 — Ground level 5.05mOD — Depth 60.20 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
						69			37.75 - 39.90m: Cobble sized black nodular flint recovered non-intact.			
	112Cs	38.85	39.20									
	113C	39.20	40.70	39.20		96 74 69						
	114Cs	39.65							39.50 - 39.65m: Flint gravel recovered non-intact. 39.60 - 39.70m: Wisps of rare black staining (up to 1mm).			
	115Cs	40.25	40.70						40.00 - 40.15m: Cobble sized black nodular flint recovered non-intact. flint recovered non-intact.			
		40.70	40.84	40.70	C*500							
	116C	40.70	42.20			93 75 64			40.80 - 40.90m: Cobble sized nodular rinded flint recovered non-intact.			
	117Cs	41.50	41.90						41.40m: Fine gravel sized pocket of yellowish brown clay with yellowish orange staining. 41.50 - 41.55m: Subhorizontal fracture infilled (up to 50mm) with subangular and subrounded fine to coarse marly chalk gravel with grey marl on fracture surface.			
	118Cs	42.10										
	119C	42.20	43.70	42.20		76 67 59			42.20 - 42.35m: Cobble sized rinded nodular flint recovered non-intact. 42.45 - 42.90m: Rare orange staining.			
		43.70	43.85	43.70	C*400							
	120C	43.70	45.20			100 77 66			44.30 - 44.75m: Flint recovered non-intact.			
26/06/15 1345hrs 9.00m	121Cs	44.80							44.75 - 44.95m: Frequent angular fine to coarse flint gravel.			
29/06/15 1210hrs 8.60m	122C	45.20	46.70	45.20		99 55 42				45.95	-40.90	
							60 230 370		Very weak medium and high density white CHALK with frequent closely and medium spaced wisps and laminae of light grey marl. Fractures are subhorizontal to 30° closely and medium spaced undulating smooth infilled (up to 7mm) with white silt and a veneer of grey marl (up to 2mm). (CIRIA Grade C3 to C2) 46.05 - 46.25m: Frequent orange staining. 46.25 - 46.30m: Flint gravel recovered non-intact.			
	123C	46.70	48.20	46.70		94 67 47						
									Continued Next Page	{48.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 6 of 7

Start Date 18 June 2015 — Easting 560528.1 — Scale 1 : 50

End Date 30 June 2015 — Northing 176118.8 — Ground level 5.05mOD — Depth 60.20 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	124C	48.20 - 49.70	48.20		100 71 71			48.15 - 48.20m: Flint gravel recovered non-intact. 48.45m: 10° fracture infilled (up to 5mm) with grey marl. 48.90 - 48.95m: Intersecting subhorizontal and 60-65° fractures undulating smooth infilled (up to 10mm) with white silt and with up to 4mm grey and dark grey marl.			
	125C	49.70 - 51.20	49.70		92 71 59			49.65 - 49.80m: Cobble sized rinded nodular flint recovered non-intact. 50.55m: Fracture stained light grey with up to 5mm penetrative discolouration. 51.00m: Thin lamination (5mm) of grey marl.			
	126C	51.20 - 52.70	51.20		100 80 60			51.10 - 51.20m: Flint gravel recovered non-intact. 51.25 - 51.30m: Flint gravel recovered non-intact. 51.35 - 51.45m: Cobble sized nodular black flint recovered non-intact. 51.70m: Fracture locally stained greyish brown with a veneer of grey marl (up to 2mm). 51.90 - 51.95m: Flint gravel recovered non-intact.			
	127C	52.70 - 54.20	52.70		100 81 62			52.40 - 52.55m: Cobble sized rinded nodular flint recovered non-intact. 53.25 - 53.45m: Frequent orange laminae and staining. 53.50 - 53.55m: Flint gravel recovered non-intact.			
									53.80	-48.75	
	128C	54.20 - 55.70	54.20		100 93 89			Very weak high density locally medium density white with rare orange staining CHALK with rare thin laminae and wisps of light grey marl. Fractures are subhorizontal to 20° closely and medium spaced undulating smooth infilled (up to 5mm) with white silt or grey marl. Rare angular and subangular fine to coarse flint gravel. (CIRIA Grade C3 to C2) 54.65m: Subhorizontal fracture infilled (up to 30mm) with white angular and subangular fine and medium chalk gravel. Possibly drilling disturbed. 54.95 - 55.10m: Frequent orange staining.			
	129C	55.70 - 57.20	55.70		99 71 71			56.20 - 56.30m: Cobble sized rinded nodular flint recovered non-intact.			
	130Cs	56.50									
	131C	57.20 - 58.70	57.20		99 75 59						
								Continued Next Page	{58.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 7 of 7

Start Date 18 June 2015 — Easting 560528.1 — Scale 1 : 50

End Date 30 June 2015 — Northing 176118.8 — Ground level 5.05mOD — Depth 60.20 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	132Cs	58.44	58.70									
	133C	58.70	60.20	58.70		100 73 43	NI 50 200		Very weak high density white with rare orange staining CHALK. Fractures are subhorizontal to 10° closely spaced undulating rough infilled (up to 10mm) with white silt locally with a veneer of dark grey marl and light brown clay. (CIRIA Grade C3)	58.90	-53.85	
29/06/15 1445hrs 6.95m	134Cs	60.00	60.20							60.20	-55.15	
									Borehole completed at 60.20m.	{68.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 2

Start Date 29 June 2015 — Easting 560202.1 — Scale 1 : 50

End Date 3 July 2015 — Northing 175846.7 — Ground level 5.20mOD — Depth 9.70 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
29/06/15 1035hrs							Off-white and light grey silty very sandy subangular fine to coarse poorly cemented silt (CKD?), chalk, flint and concrete GRAVEL. (MADE GROUND)	0.35	4.85	
	X	0.00 - 1.50					Poorly cemented light brown mottled white sandy SILT. Material CKD. (MADE GROUND)	0.70	4.50	
							Reddish brown, light grey, yellowish brown, black and white very sandy subangular fine to coarse brick, concrete, sandstone and clinker GRAVEL with a high brick cobble content. Rare fragments (up to 160mm) of ceramic, glass, metal and plastic. (MADE GROUND)	1.20	4.00	
	X	1.50 - 1.70						1.60	3.60	
		1.70 - 2.02	1.50	C*140				1.70	3.50	
	1C	1.70 - 2.20			100		COBBLES and BOULDERS of reddish brown brickwork. Gravel is angular and subangular fine to coarse brick. Frequent wood fragments. (MADE GROUND)	2.20	3.00	
	2X	2.20 - 2.70					MADE GROUND comprising grey CONCRETE.			
	3D*	2.40 - 2.50		Vo 0.0						
	4D	2.50 - 2.60					Very dense grey with black and dark blue specks slightly sandy angular to subrounded fine to coase flint, brick and poorly cemented CKD GRAVEL. (MADE GROUND) 2.00m: Flint cobble.	2.70	2.50	
		2.70 - 3.15	2.70	C 95						
	5X	2.70 - 3.70								
	6D*	2.90 - 3.00		Vo 0.0						
	7D	3.00 - 3.10								
	8D*	3.50 - 3.60		Vo 0.0						
	9D	3.60 - 3.70					Dark blue with brown specks sandy silty angular to subrounded fine to coarse flint GRAVEL with rare flint cobbles. Matrix is brown poorly cemented sandy CKD. (MADE GROUND)			
		3.70 - 4.11	3.70	C 115						
	10X	3.70 - 4.05								
							Very dense well cemented dark brown with black specks slightly sandy angular and subrounded fine to coarse flint, clinker and poorly cemented CKD GRAVEL. (MADE GROUND) 3.05 - 3.25m: 2mm fibrous material. 3.10 - 3.25m: Dark brown mottled light brown clay. 3.70 - 4.05m: Clay matrix.	4.05	1.15	
	11C	4.05 - 4.45	4.00		100					
	12D*	4.45 - 4.55		Vo 0.0				4.45	0.75	
	13X	4.45 - 4.70								
	14D	4.55 - 4.65	4.70	C 11						
	15X	4.70 - 5.15								
		4.70 - 5.70								
	16D*	5.05 - 5.15		Vo 0.0			Off-white gravelly COBBLES of strongly cemented silt with rare clinker. Material CKD. (MADE GROUND)			
	17D	5.15 - 5.25								
							Medium dense light brown with white and black specks sandy angular to subrounded fine to coarse flint, red brick and poorly cemented CKD GRAVEL with low flint cobble content. (MADE GROUND) 4.90 - 5.60m: Brown sandy silt CKD matrix.	5.60	-0.40	
		5.70 - 6.15	5.70	C 7						
	18X	5.70 - 6.70								
	19D*	5.80 - 5.90		Vo 0.0						
	20D	5.90 - 6.00								
							Loose poorly cemented greyish brown with white specks slighly sandy SILT. Material CKD. (MADE GROUND) 5.70 - 5.90m: Rare black specks. 6.05m: Orange fibrous material. 6.50m: Orange fibrous material.	6.50	-1.30	
	21D*	6.50 - 6.60		Vo 0.0						
	22D	6.60 - 6.70								
	23UT	6.70 - 7.15	6.70							
	24X	6.70 - 7.70								
							Stiff dark brown mottled bluish grey slightly sandy SILT with a strong organic odour. (REWORKED ALLUVIUM?) 7.20m: Orange fibrous material.			
	25D	7.15 - 7.30								
29/06/15 1830hrs 3.70m	26D*	7.20 - 7.30		Vo 0.0						
	27D	7.30 - 7.40								
	28D	7.70 - 8.15	6.70	S 22				7.70	-2.50	
30/06/15 0800hrs 3.67m	29X	7.70 - 8.70								
							Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Dynamic sampled (128mm) 0.00-1.70m (through previously excavated machine dug trial pit (TP201), 2.20-4.05m and 4.45-9.70m. Waterflush rotary core drilled (146mm) 1.70-2.20m and 4.05-4.45m.

CASING: 168mm diam to 9.70m.

BACKFILL: On completion, borehole backfilled with bentonite cement grout (2:1 mix) 9.70-7.00m and bentonite pellets 7.00-6.50m. A slotted standpipe (50mm) with geosock was installed to 6.00m, granular response zone 6.50-1.40m, bentonite seal 1.40-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Borehole installed on 03/07/2015. Downhole magnetometry for UXO risk mitigation undertaken 0.00-9.70m. Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered prior to use of water flush.

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 2

Start Date 29 June 2015 — Easting 560202.1 — Scale 1 : 50

End Date 3 July 2015 — Northing 175846.7 — Ground level 5.20mOD — Depth 9.70 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	30D*	8.15 - 8.25		Vo 0.0			Loose dark blue with white specks and rare grey staining angular to subrounded fine to coarse flint GRAVEL with low flint cobble content. (RIVER TERRACE DEPOSITS)			
	31D	8.25 - 8.35								
	32D	8.70 - 9.15	8.70	S 9						
	33X	8.70 - 9.70					8.90m: Coarse gravel sized pocket of light brown fine sand.			
30/06/15 1145hrs 3.57m	34D*	9.20 - 9.30		Vo 0.0						
	35D	9.30 - 9.40								
		9.70 - 10.15	9.70	S 9			Borehole completed at 9.70m.	9.70	-4.50	
								{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 4

Start Date 9 June 2015 — Easting 560333.2 — Scale 1 : 50

End Date 17 June 2015 — Northing 175813.1 — Ground level 4.25mOD — Depth 32.00 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
09/06/15 0730hrs	1B	0.30							Grass over soft light grey sandy clayey SILT with rare subangular fine to coarse sandstone gravel and rare rootlets (up to 1mm). Material Cement Kiln Dust (CKD). (MADE GROUND)			
	2D*	0.30			Vo 0.0					0.45	3.80	
	3D*	0.50			Vo 0.0				Soft light grey and white sandy gravelly clayey SILT. Gravel is subangular and subrounded fine and medium flint and sandstone. Material Cement Kiln Dust (CKD). (MADE GROUND)	0.80	3.45	
	4B	0.50										
	5B	1.00										
	7UT	1.00	1.20	Nil						1.30	2.95	
	6D*	1.00			Vo 0.0							
	8D	1.20	1.65	Nil	S 4				Soft and firm grey slightly sandy gravelly clayey SILT. Gravel is subangular to well rounded fine and medium flint and sandstone. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	9B	1.30	1.50									
	10D*	1.50			Vo 0.0							
	11B	2.00	2.20									
	12D*	2.00			Vo 0.0				Loose light brown mottled white and grey slightly sandy slightly gravelly SILT. Gravel is angular and subangular fine to coarse flint and rare chalk. Material Cement Kiln Dust (CKD). (MADE GROUND) 1.80 - 2.20m: With frequent cobble sized pockets of very soft brown slightly sandy slightly gravelly clay. Gravel is angular and subangular fine and medium flint and Cement Kiln Dust (CKD).			
	13UT	2.20	2.60	Nil								
	14D*	2.50			Vo 0.0							
	15D	2.60										
	16B	3.00	3.20									
	17D*	3.00			Vo 0.0							
	18D	3.20	3.65	3.00	S 4							
	19D*	3.50			Vo 0.0					3.70	0.55	
	20B	3.70	4.00						Grey, greenish grey and light brown sandy subangular locally angular fine to coarse mudstone, flint and vitreous clinker GRAVEL with a medium cobble content. Cobbles are flint and vitreous material. Rare wood fragments (up to 20mm). (MADE GROUND)			
	21D*	4.00			Vo 0.0							
09/06/15 1730hrs 1.10m												
10/06/15 0730hrs 2.00m	22D*	4.50			Vo 0.0					4.90	-0.65	
	24D*	5.00			Vo 0.0				Locally poorly cemented light brown sandy SILT. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	23B	5.00	5.20									
	25D	5.20	5.65	5.20	S 1							
	27D*	6.00			Vo 0.0							
	26B	6.00	6.20									
	28UT	6.20	6.60	6.20								
	29D	6.60								7.00	-2.75	
	30B	7.00	7.20						Very loose light grey mottled orangish brown and black sandy slightly gravelly SILT with frequent fine gravel sized fibrous organic material. Gravel is subangular fine and medium sandstone. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	31D*	7.00			Vo 1.5							
		7.20	7.65	7.00	S 1							
									Continued Next Page	{8.00}		

EQUIPMENT: Light cable percussive (shell and auger) rig and Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Cable percussion (300mm) 1.20-9.00m and (200mm) 9.00-21.00m. Dynamic sampled (128mm) 21.00-29.00m. Waterflush rotary cored (146mm) 29.00-32.00m.

CASING: 300mm diam to 9.00m, sacrificial 250mm diam HDPE to 9.00m. Cement:bentonite (3:1 mix) grout 9.00-5.00m and bentonite pellets 5.00-0.00m. 300mm diam casing withdrawn. 200mm diam to 21.00m and 168mm diam to 29.50m.

BACKFILL: On 17/06/2015, borehole backfilled with bentonite pellets 32.00-31.50m. A slotted standpipe (50mm) with geosock was installed to 31.00m, granular response zone 31.50-20.50m, bentonite seal 20.50-0.50m, granular surround 0.50-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-32.00m. Permeability test undertaken 23.00-24.00m. Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
3.20	1.50	3.20	20	

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 4

Start Date 9 June 2015 — Easting 560333.2 — Scale 1 : 50

End Date 17 June 2015 — Northing 175813.1 — Ground level 4.25mOD — Depth 32.00 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	32B	8.00 - 8.20							8.20	-3.95	
	33D*	8.10		Vo 1.4				Soft grey alluvium (Driller's description). (ALLUVIUM)			
	34UT	8.20 - 8.60	7.00						8.60	-4.35	
10/06/15 1730hrs 0.60m	35D	8.60						Spongy brown fibrous PEAT. (PEAT)			
	36B	8.70 - 9.00									
11/06/15 0730hrs 0.60m	37D*	9.00		Vo 0.0							
	38D	9.20 - 9.65	9.20	S 2							
	39B	9.50 - 9.60									
	40B	10.00 - 10.20									
	41D*	10.00		Vo 0.0							
	42UT	10.20 - 10.60	10.20								
	43D*	10.50		Vo 0.0					10.60	-6.35	
	44B	10.60 - 10.80						Very soft grey mottled brown silty CLAY with rare partly decomposed fibrous organic material (up to 5mm). (ALLUVIUM (PEAT))			
	45B	11.30 - 11.50									
	46D	11.50 - 11.95	11.00	S 2							
	47D*	11.50		Vo 0.0							
	48D*	12.50		Vo 0.0							
	49B	12.80 - 13.00									
	50UT	13.00 - 13.45	13.00								
	51D	13.45									
	52D*	13.50		Vo 0.0				13.50 - 14.30m: Light grey mottled brown.			
	53B	14.00 - 14.20									
	54D*	14.20		Vo 0.0					14.30	-10.05	
	55B	14.30 - 14.50						Spongy brown and black fibrous PEAT with frequent pockets (up to 30mm) of soft brown silty clay. (PEAT)			
	56D	14.50 - 14.95	13.50	S 6							
	57B	15.50 - 15.70							15.50	-11.25	
	58D*	15.50		Vo 0.0				Soft grey mottled brown silty CLAY with frequent partly decomposed fibrous organic material (up to 15mm). (ALLUVIUM (PEAT))			
	59UT	16.00 - 16.45	16.00								
	60D	16.45									
	61B	16.50 - 16.70						16.50 - 17.50m: Rare wood fragments (up to 40mm).			
	62D*	16.50		Vo 0.0							
	63B	17.30 - 17.50									
	64D	17.50 - 17.95	13.50	S 8				17.30 - 17.50m: Rare subangular fine to coarse flint gravel.			
	65D*	17.50		Vo 0.0				17.50 - 18.00m: Rare wood fragments (up to 80mm).			
	66B	17.70 - 18.00									
								Continued Next Page	{18.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks
17.50	13.50	11.92	20	

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 4

Start Date 9 June 2015 — Easting 560333.2 — Scale 1 : 50

End Date 17 June 2015 — Northing 175813.1 — Ground level 4.25mOD — Depth 32.00 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	67D*	18.00		Vo 0.0					18.10	-13.85	
								Loose greyish brown locally light grey slightly silty sandy GRAVEL. Gravel is subangular and subrounded fine to coarse flint and quartzite. (RIVER TERRACE DEPOSITS)			
	68B	18.40 - 18.60									
11/06/15 1730hrs 2.10m	69B	18.80 - 20.00									
12/06/15 0730hrs 3.30m		19.00 - 19.45	19.00	C 8							
	70D*	19.80		Vo 0.0				19.70 - 20.00m: Driller notes gravel of chalk.	20.00	-15.75	
								CHALK recovered as white silty subangular fine to coarse gravel.			
	71D	20.50 - 20.95	20.50	S 4							
12/06/15 0900hrs 6.70m	72B	21.00							21.00	-16.75	
15/06/15 1500hrs 4.24m	73X	21.00 - 22.50	21.00					Structureless CHALK composed of slightly sandy silty subangular and subrounded fine to coarse GRAVEL with medium subangular and subrounded cobble content. Clasts are very weak low and medium density white with frequent wisps of light grey marl. Rare angular to rounded coarse flint gravel. Matrix is white. (Probably CIRIA Grade Dc)			
	74D*	21.60 - 21.70		Vo 0.0							
	75D	21.70 - 21.80									
		22.50 - 22.95	22.50	S 8							
	76X	22.50 - 24.00						22.50m: Cobble sized rinded black nodular flint.			
	77D*	23.10 - 23.20		Vo 0.0							
	78D	23.20 - 23.30									
	79D*	23.80 - 23.90		Vo 0.0				23.35m: Cobble sized rinded black nodular flint, recovered non-intact.			
15/06/15 1715hrs 6.80m	80D	23.90 - 24.00									
		24.00 - 24.45	24.00	S 15							
16/06/15 0820hrs 3.59m	81X	24.00 - 25.50									
	82Xs	25.00									
	83D*	25.00 - 25.10		Vo 0.0							
	84D	25.10 - 25.20									
	85U	25.50 - 25.95	25.50								
	87X	25.50 - 27.00						25.75 - 25.80m: Cobble sized rinded black nodular flint, recovered non-intact.			
	86D	25.95 - 26.00									
	88D*	26.30 - 26.40		Vo 0.0							
	89D	26.40 - 26.50									
	90Xs	26.95									
	91D	27.00 - 27.45	27.00	S 10							
	92X	27.00 - 28.50									
	93D	27.70 - 27.80						27.70 - 28.50m: Low subangular chalk cobble content.			
								Continued Next Page	{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 4 of 4

Start Date 9 June 2015 — Easting 560333.2 — Scale 1 : 50

End Date 17 June 2015 — Northing 175813.1 — Ground level 4.25mOD — Depth 32.00 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	94D 95Xs 96D 97X	28.40 - 28.50 28.45 28.50 - 28.95 28.50 - 29.00	28.50	S 55				27.90 - 28.00m: Cobble sized rinded black nodular flint, recovered non-intact. 28.70 - 28.80m: Stained yellowish orange.			
	98C	29.00 - 30.50	28.50		100 91 35	NI 140 270		29.00 - 29.15m: Frequent orange staining on matrix.	29.15	-24.90	
	99Cs	29.75 - 30.00						Very weak and weak high density white CHALK. Fractures are subhorizontal to 25° and 55° to subvertical closely to medium spaced undulating smooth infilled with white fine and medium gravel sized chalk and white silt locally stained orange and dark brown. (CIRIA Grade C4) 29.35m: Flint band (30mm), recovered non-intact. 30.00 - 30.00m: Cobble sized black nodular flint.			
	100C	30.50 - 32.00	29.50		100 66 52			30.60 - 30.75m: Cobble sized rinded black nodular flint, recovered non-intact. 30.80 - 31.00m: Frequent black and brown specks on fracture surface. 31.20m: Tabular seam of calcite (5x70mm). 31.40 - 31.60m: Rinded black nodular flint, recovered non-intact.			
16/06/15 1545hrs 3.28m								31.80 - 31.85m: Fine to coarse gravel sized nodular flint. Veneer of light grey marl on fracture surfaces. Borehole completed at 32.00m.	32.00	-27.75	
									{38.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

BH203

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 5

Start Date 25 June 2015 — Easting 560370.3 — Scale 1 : 50

End Date 3 July 2015 — Northing 175261.8 — Ground level 3.80mOD — Depth 40.65 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
25/06/15 0730hrs	1B	0.30							Grey slightly silty sandy angular and subangular fine to coarse flint, cement (possible cement kiln dust) and concrete GRAVEL. Rare wood fragments (up to 5x20x40mm) and rare 1mm diam x 30mm metal wire fragments. (MADE GROUND)			
	2D*	0.30			Vo 0.0							
	3B	0.50								0.60	3.20	
	4D*	0.50			Vo 0.0					0.80	3.00	
	5B	1.00	1.20						Driller reports concrete slab. (MADE GROUND)			
	6D*	1.00			Vo 0.5							
		1.20	1.65	1.20	C 8				Loose brown, yellowish brown and grey slightly sandy clayey subangular and subrounded fine to coarse brick, concrete and flint GRAVEL. Rare rootlets (up to 2mm diam), rare cloth rag fragments (up to 1x20x20mm) and rare wood fragments (up to 5x20x50mm). (MADE GROUND)			
	7B	2.00	2.20									
	8D*	2.00			Vo 0.7							
		2.20	2.65	2.20	C 6					2.40	1.40	
	9B	2.40	2.60						Soft slightly sandy gravelly CLAY with a medium cobble content. Gravel is subangular fine to coarse brick and concrete. Cobbles are subangular brick and concrete. (MADE GROUND)			
	10B	3.00	3.20							3.00	0.80	
	11D*	3.00			Vo 0.5				Soft grey mottled reddish brown and brown slightly sandy slightly gravelly silty CLAY. Gravel is angular and subangular fine to coarse chalk and flint. Rare subangular fine to coarse gravel sized fragments of brick and concrete. (MADE GROUND)			
	12D	3.20	3.65	3.20	S 5					3.80	0.00	
	13B	4.00	4.20						Very soft greyish brown mottled black silty CLAY with a slight organic/hydrocarbon odour?			
25/06/15 1730hrs Dry	14D*	4.00			Vo 1.0					4.20	-0.40	
	15UT	4.20	4.50	4.20					Very soft grey CLAY with a slight organic odour. (ALLUVIUM)			
26/06/15 0730hrs Dry	16D	4.50										
	17B	5.00	5.20									
	18D*	5.00			Vo 0.6							
	19D	5.20	5.65	5.20	S 25					5.40	-1.60	
	20B	6.00	6.20						Firm light grey mottled off-white slightly sandy gravelly CLAY with low subangular flint cobble content. Gravel is subangular fine to coarse chalk and flint. (ALLUVIUM)			
	21D*	6.00			Vo 0.4							
	22D	6.20	6.65	6.20	S 29							
	23B	6.50	6.70									
	24D*	6.50			Vo 0.5							
	25D	7.20	7.65	7.20	S 32							
	26B	8.00	8.20									

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EQUIPMENT: Light cable percussive (shell and auger) rig and Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-0.60m and 0.80-1.20m. Cable percussion (300mm) 0.60-0.80m, 1.20-4.50m and (150mm) 4.50-13.50m. Dynamic sampled (128mm) 13.50-22.70m. Waterflush rotary core drilled (146mm) 22.70-40.20m.

CASING: 300mm diam to 4.50m, 150mm diam to 13.50m, 168mm diam to 22.70m.

BACKFILL: On completion, borehole backfilled with bentonite cement grout (2:1 mix) 40.65-12.10m and bentonite pellets 12.10-11.50m. A slotted standpipe (50mm) with geosock was installed to 11.40m, granular response zone 11.50-8.70m, bentonite seal 8.70-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Hole advanced by chiselling 0.60-0.80m (1hr). Borehole installed on 03/07/2015. Downhole magnetometry for UXO risk mitigation undertaken 0.00-13.50m. Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
8.00	7.20	6.40	20	Fast inflow.

AGS

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BOREHOLE LOG

BH203

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 5

Start Date 25 June 2015 — Easting 560370.3 — Scale 1 : 50

End Date 3 July 2015 — Northing 175261.8 — Ground level 3.80mOD — Depth 40.65 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	27D*	8.00		Vo 0.4							
		8.20 - 8.65	8.20	C 33					8.70	-4.90	
	28B	9.00 - 9.20						Medium dense off-white and light grey silty sandy angular and subangular fine to coarse chalk and flint GRAVEL. (RIVER TERRACE DEPOSITS)			
	29D*	9.00		Vo 0.5							
		9.20 - 9.65	9.00	C 19							
	30B	10.00 - 10.20									
	31D*	10.00		Vo 0.5							
		10.20 - 10.65	10.00	C 15							
	32B	11.00 - 11.20									
	33D*	11.00		Vo 0.3				11.00 - 11.60m: Medium cobble content. Cobbles are subangular flint.			
	34B	11.60 - 11.80							11.60	-7.80	
	35D*	11.60		Vo 0.1				11.60 - 11.80m: High cobble content. Cobbles are subangular flint.			
		12.00 - 12.45	12.00	C 4				CHALK recovered as loose off-white subangular fine to coarse gravel sized fragments.			
	36B	13.00 - 13.20									
26/06/15 1730hrs 3.40m	37D*	13.00		Vo 0.0							
		13.50 - 13.95	13.50	S 5					13.50	-9.70	
30/06/15 1455hrs 3.01m	38X	13.50 - 14.00						Structureless CHALK composed of white locally stained orange slightly sandy gravelly SILT. Gravel is angular to subrounded fine to coarse extremely and very weak medium density white chalk. (Probably CIRIA Grade Dm)			
	39X	14.00 - 15.50	14.00					13.50 - 14.10m: Frequent coarse gravel sized pockets of fine sand.			
	40D*	14.20 - 14.30		Vo 0.0							
	41Xs	14.35						14.35 - 14.45m: Cobbles of white chalk (up to 50x105x110mm).			
	42Xs	14.40									
								15.00 - 15.15m: Rare angular fine and medium flint gravel.			
	43D*	15.30 - 15.40		Vo 0.0							
	44D	15.50 - 15.95	15.50	S 12							
	45X	15.50 - 17.00						15.70m: Rare angular medium flint gravel.			
	46D*	16.20 - 16.30		Vo 0.0							
	47Xs	16.70						16.60m: Cobble sized rinded black nodular flint.			
	48D	17.00 - 17.45	16.00	S 15							
	49X	17.00 - 18.50	17.00					17.00m: Cobble sized rinded black nodular flint.			
	50D*	17.20 - 17.30		Vo 0.0							
								17.75 - 18.10m: Rare subangular coarse flint gravel.			
								Continued Next Page	{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

BH203

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 5

Start Date 25 June 2015 — Easting 560370.3 — Scale 1 : 50

End Date 3 July 2015 — Northing 175261.8 — Ground level 3.80mOD — Depth 40.65 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
30/06/15 1840hrs 2.86m	51Xs	18.20 - 18.30						18.20 - 18.30m: Cobble of white rarely stained orange chalk (95x95x120mm).			
	52D	18.50 - 18.95	18.50	S 12							
01/07/15 0810hrs 2.76m	53X	18.50 - 20.00						18.75 - 18.85m: Rare angular fine flint gravel.			
								19.10 - 19.25m: Pocket of fine and medium chalk and flint gravel.	19.40	-15.60	
	54D	20.00 - 20.45	18.50	S 18				Structureless CHALK composed of white slightly sandy slightly gravelly SILT. Gravel is subangular fine and medium rarely coarse extremely weak low and medium density white chalk. (Probably CIRIA Grade Dm)			
	55X	20.00 - 21.50						20.10 - 20.20m: Gravelly.			
								21.15m: Cobble sized rinded black nodular flint.			
		21.50 - 21.84	21.50	S*158				21.25m: 3mm subhorizontal orange staining.			
	56X	21.50 - 22.70						21.55m: Cobble sized rinded black nodular flint.			
								21.80 - 21.90m: Rare subangular coarse flint gravel.			
								22.00 - 22.50m: Rare yellow staining.			
	57D	22.70 - 23.15	22.70	S 33				22.55m: 5mm suborizontal light grey marl lense.	22.70	-18.90	
	58C	22.70 - 24.20			100 38 0	NI 150 190		22.60 - 22.70m: Gravelly.			
								Very weak to weak medium density white with rare black specks locally orange stained CHALK with frequent closely spaced wisps of light grey marl. Fractures are 50-70° and subhorizontal to 20° closely spaced planar rough clean. Medium spaced bands of angular fine and medium flint gravel. (CIRIA Grade B3)			
	59Cs	24.00						24.00m: Cobble sized rinded black nodular flint.			
	60C	24.20 - 25.70	22.70		100 50 39						
						NI 170 360			25.15	-21.35	
	61Cs	25.45 - 25.70						Extremely weak and very weak low and medium density white with rare black specks locally yellow stained CHALK with frequent closely and medium spaced wisps of light grey marl. Fractures are subhorizontal to 20° closely and medium spaced planar and undulating rough infilled (up to 2mm) with white silt. Rare angular fine to coarse flint gravel and low flint cobble content. (CIRIA Grade B2 and B3)			
	62D	25.70 - 26.06	22.70	S*146							
	63C	25.70 - 27.20			96 63 47						
	64Cs	25.75									
	65Cs	25.80									
	66Cs	26.70									
	67Cs	26.75 - 27.10									
	68C	27.20 - 28.70	22.70		95 48 40						
								Continued Next Page	{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 4 of 5

Start Date 25 June 2015 — Easting 560370.3 — Scale 1 : 50

End Date 3 July 2015 — Northing 175261.8 — Ground level 3.80mOD — Depth 40.65 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	69Cs	27.90 - 28.15									
	70Cs	28.50									
	71D	28.70 - 29.15	22.70	S 32							
	72C	28.70 - 30.20			100 69 69						
	73Cs	29.50 - 29.75									
	74Cs	29.80									
	75C	30.20 - 31.60	22.70		95 43 33						
	76Cs	30.60						30.60m: Cobble sized rinded black nodular flint. 30.70 - 30.90m: Subvertical unduating clean fracture.			
	77Cs	30.95 - 31.30									
	78Cs	31.30									
	79D	31.60 - 32.05	22.70	S 64							
	80C	31.60 - 33.10			100 53 48						
						NI 190 310			32.05	-28.25	
	81Cs	32.30						Very weak medium density off-white with rare black specks CHALK. Fractures are subhorizontal to 10° closely rarely medium spaced planar rough with a veneer of white silt and light grey marl. Rare angular to subrounded fine to coarse flint gravel. (CIRIA Grade C3 and C2)			
	82Cs	32.50 - 32.80									
01/07/15 1830hrs 2.76m											
02/07/15 0810hrs 2.76m	83C	33.10 - 34.60	22.70		100 64 48						
	84Cs	33.40									
	85Cs	33.45 - 33.65									
	86Cs	34.30									
	87D	34.60 - 35.05	22.70	S 42					34.60	-30.80	
	88C	34.60 - 36.10			97 33 24	NI 140 220		Very weak low and medium density white with rare black specks locally stained orange CHALK. Fractures are subhorizontal closely rarely medium spaced planar and undulating smooth and rough infilled (up to 2mm) with white silt. Low medium spaced flint cobble content recovered non-intact. (CIRIA Grade C3 and C2)			
	89Cs	35.15									
	90Cs	35.70 - 35.85									
	91Cs	36.00									
	92C	36.10 - 37.20	22.70		91 37 30						
	93Cs	36.20									
	94Cs	36.75 - 37.00									
	95D	37.20 - 37.62	22.70	S*111							
	96C	37.20 - 38.70			100 43 39						
						NI 170 230			37.55	-33.75	
	97Cs	37.80						Very weak to weak medium to high density white with rare black specks locally stained yellow CHALK with rare			
								Continued Next Page	{38.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 5 of 5

Start Date 25 June 2015 — Easting 560370.3 — Scale 1 : 50

End Date 3 July 2015 — Northing 175261.8 — Ground level 3.80mOD — Depth 40.65 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	98Cs	38.10	38.35						closely to medium spaced wisps of light grey marl. Fractures are subhorizontal to 20° very closely to medium spaced undulating rough with veneer of white silt. Rare angular to subrounded fine to coarse flint gravel and low medium spaced flint cobble content recovered non-intact. (CIRIA Grade C3 and C2)			
	99C	38.70	39.70	22.70		97 30 0						
	100Cs	39.40										
	101C	39.70	40.20	22.70		100 20 13						
	102Cs	39.80	40.00									
	103Cs	40.05										
02/07/15 1345hrs 2.74m	104D	40.20	40.65	22.70	S 100					40.65	-36.85	
									Borehole completed at 40.65m.	{48.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT Sheet 1 of 3

Start Date 23 June 2015 Easting 560198.5 Scale 1 : 50

End Date 26 June 2015 Northing 175256.3 Ground level 3.95mOD Depth 20.10 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
23/06/15 0730hrs	1D*	0.20			Vo 0.4			Brown and grey clayey sandy subangular to rounded fine to coarse flint, brick and concrete GRAVEL. (MADE GROUND)			
	2B	0.30						0.20 - 1.20m: Rare fine fibrous textile fragments (up to 1x15x15mm).	0.80	3.15	
	3D*	0.40			Vo 0.5						
	4B	0.50							0.90	3.05	
	5B	1.00	1.20					Grey and brown sandy angular and subangular fine to coarse limestone GRAVEL. (MADE GROUND)			
	6D*	1.00			Vo 0.8						
		1.20	1.65	1.00	C 48			Dense grey and greyish brown slightly sandy clayey angular and subangular fine to coarse concrete, brick and flint GRAVEL. (MADE GROUND)			
	7B	2.00	2.20								
	8D*	2.00			Vo 0.6				2.30	1.65	
		2.20	2.65	2.00	C 7			Soft and firm dark brown mottled grey and black slightly sandy slightly gravelly silty CLAY with a low cobble content. Gravel is angular and subangular fine and medium flint and chalk. Cobbles are angular and subangular flint. (ALLUVIUM)			
	9D*	2.60			Vo 0.6						
	10B	3.00	3.30								
	11D*	3.00			Vo 0.5						
		3.20	3.65	3.20	C 7				3.30	0.65	
	12UT	3.30	3.75	3.30				Soft brownish grey peaty CLAY with a slight organic odour. (ALLUVIUM (PEAT))			
	13B	3.30	3.40								
23/06/15 1730hrs Dry	14D*	3.30			Vo 0.6						
	15D	3.75									
24/06/15 0730hrs Dry	16B	4.00	4.20								
	17D*	4.00			Vo 0.0						
	18D	4.20	4.65	4.00	S 5						
	19B	5.00	5.20								
	20UT	5.20	5.65	5.20							
	21D*	5.00			Vo 0.0						
	22D	5.65									
	23B	6.00	6.20					6.00 - 6.70m: Rare wood fragments 5x30x30mm.			
	24D*	6.00			Vo 0.1			6.20 - 7.30m: Sandy.			
	25D	6.20	6.65	6.20	S 4						
	26D*	6.70			Vo 0.1						
	27B	7.00	7.20								
	28D*	7.00			Vo 0.1				7.30	-3.35	
		7.20	7.65	7.20	C 20			Very soft becoming soft brownish grey and light grey slightly sandy gravelly CLAY with a medium cobble content. Gravel is angular and subangular fine to coarse chalk and flint. Cobbles are angular and subangular flint.			
								Continued Next Page	{8.00}		

EQUIPMENT: Light cable percussive (shell and auger) rig and Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Cable percussion (300mm) 1.20-4.00m and (200mm) 4.00-13.50m, Dynamic sampled (128mm) 13.50-20.10m.

CASING: 300mm diam to 4.00m, 250mm diam HDPE sacrificial grouted in to 4.00m (300mm diam withdrawn), 250mm diam to 13.50m, 168mm diam to 18.00m.

BACKFILL: On completion, borehole backfilled with bentonite pellets 20.10-12.20m. A slotted standpipe (50mm) with geosock was installed to 12.00m, granular response zone 12.20-6.80m, bentonite seal 6.80-0.40m, granular surround 0.40-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Bentonite seal for aquifer protection installed 3.00-4.00m prior to reduction in casing diameter. Downhole magnetometry for UXO risk mitigation undertaken 0.00-13.50m. Falling head permeability test carried out in borehole 14.00-15.00m. Borehole installed on 26/06/2015. Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered prior to use of water flush.

AGS

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BOREHOLE LOG

BH204

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 3

Start Date 23 June 2015 — Easting 560198.5 — Scale 1 : 50

End Date 26 June 2015 — Northing 175256.3 — Ground level 3.95mOD — Depth 20.10 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	29B	8.00 - 8.20					(RIVER TERRACE DEPOSITS)			
		8.20 - 8.65	8.20	C 17						
	30B	9.00 - 9.20					9.00 - 10.00m: Tending to clayey sandy gravel with a high cobble content			
	31D*	9.00	9.20	Vo 0.1						
		9.20 - 9.65		C 5						
	32UT	10.00 - 10.45	10.00							
	33B	10.00 - 10.20								
	34D*	10.00		Vo 0.0						
	35D	10.45								
	36B	11.00 - 11.20								
	37D*	11.00		Vo 0.0						
	38D	11.50 - 11.95	11.50	S 5				11.80	-7.85	
	39B	11.80 - 12.00					CHALK recovered as light grey and off white, sandy subangular fine to coarse GRAVEL with medium cobble content.			
	40D*	11.80		Vo 0.0				12.20	-8.25	
	41B	12.00 - 12.20		Vo 0.0						
	42D*	12.00					CHALK recovered as off-white locally stained yellow silty subangular fine to coarse chalk GRAVEL.			
	43B	13.00 - 13.20								
24/06/15 1730hrs 5.40m	44D*	13.00		Vo 0.4						
	45D	13.50 - 13.95	13.50	S 6				13.50	-9.55	
25/06/15 1220hrs 3.09m	46X	13.50 - 15.00					Structureless CHALK composed of off-white slightly gravelly slightly sandy SILT. Gravel is angular to subrounded fine to coarse extremely and very weak low density white with rare brown and black specks chalk. (Probably CIRIA Grade Dm)			
	47D*	13.50 - 13.60		Vo 0.0						
	48D*	13.90 - 14.00		Vo 0.0						
	49Xs	14.40					14.30 - 14.45m: Gravelly. 14.40m: Cobble of white chalk (65x75x75mm). 14.60 - 14.70m: Yellow stained.			
	50D	15.00 - 15.45	15.00	S 3						
	51X	15.00 - 16.50								
	52D*	15.15 - 15.25		Vo 0.0						
							15.40 - 15.70m: Gravelly. 15.60 - 15.95m: Grey mottled. 15.65 - 15.70m: Coarse gravel sized pocket of soft orangish brown clay.	15.95	-12.00	
	53D*	16.20 - 16.30		Vo 0.0			Structureless CHALK composed of cream with orange staining slightly sandy gravelly SILT. Gravel is angular and subangular fine to coarse very weak low and medium density cream with rare black specks chalk, rarely angular medium flint. (Probably CIRIA Grade Dm) 16.40 - 16.75m: Medium spaced cobbles of chalk.			
	54D	16.50 - 16.95	16.50	S 12						
	55X	16.50 - 18.00								
	56Xs	17.55								
	57Xs	17.65								
	58Xs	17.70								
	59D*	17.80 - 17.90		Vo 0.0				17.80	-13.85	
	60D	18.00 - 18.45	18.00	S 14						
							Continued Next Page	{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

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BOREHOLE LOG

BH204

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 3

Start Date 23 June 2015 — Easting 560198.5 — Scale 1 : 50

End Date 26 June 2015 — Northing 175256.3 — Ground level 3.95mOD — Depth 20.10 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	61X	18.00 - 19.50					CHALK recovered as off-white with rare yellow staining slightly sandy gravelly SILT. Gravel is angular to subrounded fine to coarse very weak medium density white with rare black specks chalk, rarely subangular fine and medium flint. (Probably CIRIA Grade Dc)			
	62D*	18.90 - 19.00		Vo 0.0						
	63D	19.50 - 19.95	18.00	S 7			19.30m: Cobble sized rinded black nodular flint.			
	64X	19.50 - 20.10								
25/06/15 1740hrs 2.86m	65Xs	19.90					19.95m: Cobble of white chalk (90x90x105mm).			
							19.95 - 20.10m: Slightly gravelly.	20.10	-16.15	
							Borehole completed at 20.10m.			
								{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

AGS

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 3

Start Date 18 June 2015 — Easting 560342.9 — Scale 1 : 50

End Date 23 June 2015 — Northing 174836.3 — Ground level 13.05mOD — Depth 20.45 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
18/06/15 1400hrs	1B	0.30 - 0.40						Firm dark grey mottled white slightly sandy gravelly SILT. Gravel is subangular to rounded fine to coarse flint, chalk sandstone and crystalline. (MADE GROUND)			
	2D*	0.30 - 0.40		Vo 0.0							
	3B	0.50 - 0.70									
	4D*	0.50 - 0.70		Vo 0.0							
	5B	1.00 - 1.20									
	6D*	1.00 - 1.20		Vo 0.0							
	7D	1.20 - 1.65	Nil	S 7					1.20	11.85	
	8X	1.20 - 2.20						Loose and medium dense white and cream slightly gravelly slightly sandy SILT. Gravel is subangular to rounded fine to coarse chalk, rarely angular to rounded fine to coarse black and brown flint. (MADE GROUND)			
	9D*	1.60 - 1.70		Vo 0.1							
	10D	1.70 - 1.80									
	11D	2.20 - 2.65	Nil	S 9							
	12X	2.20 - 3.20									
	13D*	2.50 - 2.60		Vo 0.2							
	14D	2.60 - 2.70									
	15D*	3.00 - 3.10		Vo 0.4							
	16D	3.10 - 3.20									
	17D	3.20 - 3.65	Nil	S 7							
	18X	3.20 - 4.20						3.15m: Medium gravel sized pocket of brownish grey fine sand.			
	19D*	3.50 - 3.60		Vo 0.7				3.45 - 3.65m: Frequent pockets (up to 20mm) of light grey and brownish grey sandy silt.			
	20D	3.60 - 3.70									
18/06/15 1730hrs 0.00m	21D*	4.00 - 4.10		Vo 0.9							
	22D	4.10 - 4.20									
	23D	4.20 - 4.65	Nil	S 15							
19/06/15 0800hrs 1.76m	24X	4.20 - 5.20									
	25D*	4.70 - 4.80		Vo 1.5							
	26D	4.80 - 4.90									
	27D*	5.00 - 5.10		Vo 1.8							
	28D	5.10 - 5.20									
	29D	5.20 - 5.65	4.20	S 13				5.10 - 5.20m: Cobble sized black flint, recovered non-intact.			
	30X	5.20 - 6.20						5.40 - 5.55m: Frequent medium and coarse gravel sized pockets of light grey sandy silt.			
	31D*	5.50 - 5.60		Vo 2.4				5.60 - 5.80m: Non-intact, recovered as fine to coarse gravel sized angular black and brown flint. Drilling disturbed.			
	32D	5.60 - 5.70									
	33D*	6.00 - 6.10		Vo 1.5							
	34D	6.10 - 6.20									
	35D	6.20 - 6.65	6.20	S 14							
	36X	6.20 - 7.20									
	37D*	6.80 - 6.90		Vo 2.3							
	38D	6.90 - 7.00									
	39D	7.20 - 7.65	7.20	S 26					7.20	5.85	
	40X	7.20 - 8.20						Firm grey and white mottled orangish brown slighty sandy gravelly clayey SILT with frequent fine to coarse gravel sized pockets of black ash, rare rootlets (up to 3mm diam) and rare wood fragments (up to 45mm). Gravel is subangular to rounded fine to coarse flint, chalk, coal,			
	41D*	7.70		Vo 2.8							
	42D	7.80 - 7.90						Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-4.20m and (113mm) 4.20-17.70m and 17.90-18.50m. Waterflush rotary core drilled (116mm) 17.70-17.90m and 18.50-20.00m.

CASING: 140mm diam to 17.00m.

BACKFILL: On 23/06/2015, borehole backfilled with bentonite pellets 20.45-19.50m. A slotted standpipe (50mm) with geosock was installed to 19.00m, granular response zone 19.50-12.50m, bentonite seal 12.50-0.40m, gravel 0.40-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-15.70m.

Chalk grade based on CIRIA C574 (2002).

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered prior to use of water flush.

AGS

CONTRACT	CHECKED
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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 3

Start Date 18 June 2015 — Easting 560342.9 — Scale 1 : 50

End Date 23 June 2015 — Northing 174836.3 — Ground level 13.05mOD — Depth 20.45 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	43D	8.20 - 8.65	7.20	S 11				brick, rarely ceramic. (MADE GROUND)			
	44X	8.20 - 9.20						7.70m: Metal fragment (2mmx15mmx20mm).	8.25	4.80	
	45D*	8.50		Vo 0.0				Soft light grey and greyish white locally brown slightly sandy gravelly silty CLAY. Gravel is angular to rounded fine to coarse flint, chalk and brick. (MADE GROUND)			
	46D	8.60 - 8.70							9.00	4.05	
	47D	9.20 - 9.65	7.20	S 2				Very loose brown and orangish brown sandy very clayey subangular to rounded fine to coarse flint and chalk GRAVEL. (MADE GROUND)			
	48X	9.20 - 10.20						9.15 - 9.20m: Gravel is angular and subangular coarse concrete.			
	49D*	9.60 - 9.70		Vo 0.0							
	50D	9.70 - 9.80									
	51D*	10.00 - 10.10		Vo 0.0					9.95	3.10	
	52D	10.10 - 10.20						Very soft grey with frequent black specks slightly sandy gravelly clayey SILT. Gravel is subangular to rounded fine to coarse flint. (MADE GROUND)			
	53D	10.20 - 10.65	7.20	S 1							
	54X	10.20 - 11.70									
	55D*	10.40 - 10.50		Vo 0.0							
	56D	10.50 - 10.60							10.70	2.35	
								Brown sandy subangular to rounded fine to coarse flint GRAVEL rarely concrete and chalk. (MADE GROUND)			
	57D*	11.50 - 11.60		Vo 0.0							
	58D	11.60 - 11.70									
	59D	11.70 - 12.15	11.70	S 6				11.45 - 11.90m: Becoming clayey. Very sandy.			
	60X	11.70 - 13.00							11.90	1.15	
								Structureless CHALK composed of white slightly sandy gravelly SILT. Gravel is angular to subrounded fine to coarse extremely weak medium density white with rare orange staining chalk. (Probably CIRIA Grade Dm)			
	61D*	12.30		Vo 0.0							
19/06/15 1435hrs 11.22m	62D*	12.80		Vo 0.0							
	63D	13.00 - 13.45	13.00	S 44							
22/06/15 1120hrs 11.47m	64X	13.00 - 14.50						13.10 - 13.25m: Non-intact, recovered as angular and subangular fine to coarse gravel sized rinded black nodular flint. Drilling disturbed.			
	65D*	13.50		Vo 0.0				13.70 - 13.80m: Frequent orange staining.			
	66D*	14.40		Vo 0.0							
	67D	14.50 - 14.95	13.00	S 26							
	68X	14.50 - 15.70						14.95 - 15.05m: Frequent orange staining.			
								15.20 - 15.30m: Cobble sized rinded black flint, recovered non-intact.	15.25	-2.20	
	69D*	15.40 - 15.50		Vo 0.0							
	70D	15.70 - 16.15	13.00	S 42				Structureless CHALK composed of white slightly sandy silty angular to subrounded fine to coarse GRAVEL. Clasts are extremely weak low and medium density white with rare orange staining chalk. (Probably CIRIA Grade Dc)			
	71X	15.70 - 17.00									
	72D*	16.40 - 16.50		Vo 0.0							
	73D	17.00 - 17.45	15.70	S 41							
	74X	17.00 - 17.70									
	C	17.70 - 17.90	17.00		0						
								Continued Next Page	{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

AGS

CONTRACT **30766**

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BOREHOLE LOG

BH501

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 3

Start Date 18 June 2015 — Easting 560342.9 — Scale 1 : 50

End Date 23 June 2015 — Northing 174836.3 — Ground level 13.05mOD — Depth 20.45 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	75X	17.90 - 18.50				NI 140 160		17.70 - 17.90m: Core run attempted through flint. No recovery.	18.20	-5.15	
	76C	18.50 - 20.00	17.00		95 56 38			Extremely weak low and medium density white with rare orange staining CHALK. Fractures are subhorizontal to 10° extremely closely spaced planar smooth infilled (up to 4mm) with white silt. (CIRIA Grade C5)	18.50	-5.45	
	77Cs	18.60									
	78Cs	18.65									
	79Cs	18.70 - 18.90						Extremely weak low and medium density white with rare black specks and rare orange staining CHALK. Fractures are subhorizontal to 10° and 70° to subvertical to 20° closely spaced undulating smooth infilled (up to 8mm) with subangular to subrounded fine and medium white chalk gravel and white silt. (CIRIA Grade C3)			
	80Cs	19.85									
	81Cs	19.95									
22/06/15 1720hrs 11.71m	82D	20.00 - 20.45	17.00	S 81				18.50 - 18.60m: Cobble sized rinded black nodular flint, recovered non-intact.			
23/06/15 0815hrs 11.65m								18.90 - 19.00m: Frequent orange and brownish orange staining. 18.95 - 19.00m: Cobble sized rinded black nodular flint, recovered non-intact. 19.60 - 19.65m: Cobble sized rinded black nodular flint, recovered non-intact.	20.45	-7.40	
								Borehole completed at 20.45m.	{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

AGS

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BOREHOLE LOG

BH502

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 3

Start Date 23 June 2015 — Easting 560135.4 — Scale 1 : 50

End Date 25 June 2015 — Northing 174870.5 — Ground level 13.25mOD — Depth 20.45 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
23/06/15 1500hrs	1B	0.30	0.50						Firm dark grey mottled white slightly sandy gravelly SILT. Gravel is subangular to rounded fine to coarse flint, chalk, sandstone and crystalline. (MADE GROUND)			
	2D*	0.30	0.50									
	3B	0.50	0.80									
	4D*	0.50	0.80									
	5B	1.00	1.20									
	6D*	1.00	1.20									
	7D	1.20	1.65	Nil	S 41				1.00m: Grey plastic sheet.	1.20	12.05	
	8X	1.20	1.75						Off-white slightly gravelly sandy SILT. Gravel is subrounded fine white rarely angular fine and medium flint and chalk. (MADE GROUND)			
	9D*	1.60	1.70		Vo 0.0					1.50	11.75	
	10D	1.70	1.80							1.80	11.45	
	11X	1.80	2.20						Light greyish brown gravelly SILT. Gravel is angular and subangular fine to coarse grey and white chalk and rare angular to subangular fine and medium flint. Frequent fine to coarse gravel sized pockets of dark brown and grey clay. (MADE GROUND)			
	12D*	2.10	2.20		Vo 0.1							
	13D	2.20	2.65	Nil	S 15							
	14X	2.20	3.20									
	15D*	2.70	2.80		Vo 0.3				White and cream slightly gravelly sandy SILT. Gravel is subangular and subrounded fine white chalk and angular to rounded fine to coarse flint. (MADE GROUND)			
	16D	2.80	2.90									
	17D	3.20	3.65	Nil	S 5							
	18X	3.20	4.20									
	19D*	3.20	3.30		Vo 0.3							
	20D*	3.70	3.80		Vo 0.8							
	21D	3.80	3.90									
	22D	4.20	4.65	Nil	S 8				3.90 - 4.05m: Dark greyish brown very gravelly fine to coarse sand. Gravel is subangular to rounded fine and medium flint and crystalline.			
	23X	4.20	5.20						4.10m: Rounded medium red flint gravel.			
	24D*	4.70	4.80		Vo 0.0				4.30 - 4.40m: Frequent pockets (up to 10mm) of brownish grey gravelly sand. Gravel is angular and subangular fine brick.			
	25D	4.80	4.90									
	26D	5.20	5.65	Nil	S 25							
	27X	5.20	6.20						5.25m: 45mm pocket of light brown gravelly silt. Gravel is angular fine brick.	5.50	7.75	
	28D*	5.60	5.70		Vo 0.4				White slightly gravelly slightly sandy SILT. Gravel is subangular to rounded fine and medium white locally stained orange chalk and rare angular to subrounded fine to coarse flint. (MADE GROUND)			
	29D	5.70	5.80									
	30D*	6.00	6.10		Vo 0.0							
	31D	6.20	6.65	Nil	S 6							
	32X	6.20	7.20									
	33D	6.60	6.70									
	34D*	6.60	6.70		Vo 0.2							
23/06/15 1825hrs Dry	35D*	7.00	7.20		Vo 0.2							
	36D	7.20	7.65	Nil	S 7							
24/06/15 0810hrs Dry	37X	7.20	8.20						7.35 - 7.40m: Frequent grey clay. 7.40 - 7.50m: Subangular chalk cobble (65x90x90mm). 7.50 - 7.60m: Grey clay. Cement odour.	7.90	5.35	
	38D*	7.70	7.80		Vo 0.0							
	39D	7.80	7.90									
									Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-1.80m and (113mm) 1.80-15.50m. Waterflush rotary cored (116mm) 15.50-20.00m.

CASING: 140mm diam to 17.00m.

BACKFILL: On completion, borehole backfilled with bentonite pellets 20.45-19.50m. A slotted standpipe (50mm) with geosock was installed to 19.00m, granular response zone 19.50-11.00m, bentonite seal 11.00-0.45, gravel drain 0.45-0.35m, concrete and raised helmet cover 0.35-0.00m.

Borehole installed on 24/06/15 and 25/06/2015.

REMARKS: Driller notes loss of flush 15.50-20.00m. Downhole magnetometry for UXO risk mitigation undertaken 0.00-16.80m. No anomolies encountered. Chalk grade based on CIRIA C574 (2002).

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered prior to use of water flush.

AGS

CONTRACT	CHECKED
30766	**EC**

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BOREHOLE LOG

BH502

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 3

Start Date 23 June 2015 — Easting 560135.4 — Scale 1 : 50

End Date 25 June 2015 — Northing 174870.5 — Ground level 13.25mOD — Depth 20.45 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	40D	8.20 - 8.65	Nil	S 7				Red, yellow and black (ashy) sandy angular and subangular fine to coarse brick and cement GRAVEL with low subangular brick cobble content. (MADE GROUND)			
	41X	8.20 - 9.20									
	42D*	8.60 - 8.70		Vo 0.4							
	43D	8.70 - 8.80							8.70	4.55	
	44D*	9.00 - 9.10		Vo 0.4				Brown, grey and red (ashy) silty gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse brick, coal and rare black slate and chalk. (MADE GROUND)			
	45D	9.10 - 9.20						9.05 - 9.15m: Angular brick and mortar (20x60x110mm).			
	46D	9.20 - 9.65	Nil	S 1					9.15	4.10	
	47X	9.20 - 10.20									
	48D*	9.40 - 9.50		Vo 0.5							
	49D	9.50 - 9.60						Very soft brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse flint. (MADE GROUND)			
	50D	10.20 - 10.65	10.20	S 9							
	51X	10.20 - 11.70									
									10.70	2.55	
	52D*	10.70 - 10.80		Vo 0.3				White and brown silty very sandy angular to subrounded fine to coarse flint GRAVEL. (MADE GROUND)	10.90	2.35	
	53D	10.80 - 10.90						10.75m: Coarse gravel of purple stained quartzite.	11.15	2.10	
	54D*	11.30 - 11.40		Vo 0.3				Reddish brown and pinkish brown very clayey angular to subrounded fine to coarse flint and rare chalk GRAVEL with rare medium gravel sized pockets of black (ashy) silt. (MADE GROUND)			
	55D	11.40 - 11.50									
	56D	11.70 - 12.15	11.70	S 28					11.75	1.50	
	57X	11.70 - 13.20						11.15 - 11.25m: Subrounded coarse flint gravel. Soft light and dark brown slightly sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse flint and chalk. (MADE GROUND)			
	58D*	12.30 - 12.40		Vo 0.5				11.60 - 11.70m: Nodular flint cobble.			
	59D*	13.10 - 13.20		Vo 0.7				Structureless CHALK composed of slightly sandy silty angular and subangular fine to coarse GRAVEL. Clasts are extremely weak and very weak medium density white. Matrix is white with rare orange staining. (Probably CIRIA Grade Dc)			
	60D	13.20 - 13.65	13.20	S 30				12.10 - 12.20m: Frequent orange staining.			
	61X	13.20 - 14.50						12.45 - 12.55m: Cobble sized black flint, recovered non-intact.			
								13.60 - 13.70m: Cobble sized rinded black nodular flint, recovered non intact.			
	62D*	14.10 - 14.20		Vo 0.8							
	63D	14.50 - 14.95	13.20	S 62					14.50	-1.25	
	64X	14.50 - 15.50						Extremely weak medium density white CHALK. Fractures are subhorizontal extremely closely spaced, planar smooth infilled (up to 5mm) with white silt. (Probably CIRIA Grade C5)			
	65D*	15.10 - 15.20		Vo 0.6				15.00m: Rare orangish brown staining.			
	66C	15.50 - 17.00	15.50		81 50 47	NI 190 290		15.45 - 15.50m: Frequent orange staining.	15.75	-2.50	
								Very weak low to medium density white with rare orange staining CHALK. Fractures are subhorizontal to 10° closely and medium spaced undulating smooth infilled with white silt rarely stained orange with rare black specks (up to 6mm) . (CIRIA Grade C3 to C2)			
								16.50 - 16.60m: Cobble sized rinded black nodular flint, recovered non intact.			
	67D	17.00 - 17.45	17.00	S 40							
	68C	17.00 - 18.50	17.00		91 30 12			17.00 - 18.50m: Locally drilling disturbed.			
								Continued Next Page	{18.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks	CONTRACT	CHECKED
				Groundwater not encountered prior to use of water flush.	30766	EC

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BOREHOLE LOG

BH502

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 3

Start Date 23 June 2015 — Easting 560135.4 — Scale 1 : 50

End Date 25 June 2015 — Northing 174870.5 — Ground level 13.25mOD — Depth 20.45 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	69Cs	18.20	18.45									
	70C	18.50	20.00	17.00		100 75 75			18.40 - 19.00m: Fractures subhorizontal to 20° undulating smooth. 18.85m: Fracture surface stained orange with rare black specks.			
	71Cs	19.20	19.45						19.50 - 20.00m: Frequent 70° to subvertical fractures undulating smooth infilled (up to 8mm) with angular and subangular fine and medium chalk gravel and silt. 19.95 - 20.00m: Grey marl seam locally stained orange.			
24/06/15 1640hrs 12.01m	72D	20.00	20.45	17.00	S 49					20.45	-7.20	
									Borehole completed at 20.45m.	{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

AGS

CONTRACT **30766**

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BOREHOLE LOG

BH703

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 2

Start Date 9 June 2015 — Easting 561557.1 — Scale 1 : 50

End Date 10 June 2015 — Northing 173367.0 — Ground level 7.05mOD — Depth 10.20 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
09/06/15 1445hrs	1B	0.30	0.40					Grass over firm dark grey sandy gravelly clayey SILT with frequent rootlets (up to 1mm diam). Gravel is subangular and subrounded fine to coarse sandstone. (MADE GROUND)			
	2D*	0.30	0.40		Vo 0.0						
	3B	0.50	0.70								
	4D*	0.50	0.70		Vo 0.0				0.80	6.25	
	5B	1.00	1.20					Dark brown mottled white sandy gravelly SILT. Gravel is subangular and subrounded fine to coarse chalk and flint. (MADE GROUND)			
	6D*	1.00	1.20		Vo 0.0						
	7D	1.20	1.65	Nil	S 8				1.20	5.85	
	8X	1.20	2.20					Soft to firm yellowish brown slightly sandy slightly gravelly CLAY with rare rootlets (up to 2mm diam) and rare wood fragments (up to 5mm diam). Gravel is angular to subrounded fine to coarse chalk and flint. (MADE GROUND)			
	9D	1.20	1.30						1.60	5.45	
	10D*	1.20	1.30		Vo 0.0						
	11D	1.90	2.10								
	12D*	1.90	2.10		Vo 0.0						
	13D	2.20	2.65	Nil	S 7						
	14X	2.20	3.20					Soft to firm yellowish brown slighty gravelly sandy CLAY with rare rootlets (up to 2mm diam). Gravel is angular to rounded fine to coarse chalk and flint. (MADE GROUND) 1.60 - 2.20m: Mottled brown. 2.45 - 2.60m: Band of angular to subrounded fine and medium chalk gravel.			
	15D	2.80	2.90								
	16D*	2.80	2.90		Vo 0.0						
	17D	3.20	3.65	Nil	S 12			2.70 - 2.85m: Decomposed roots (up to 7mm diam).	3.25	3.80	
	18X	3.20	4.20					Medium dense light yellowish brown slightly sandy to sandy SILT. (RIVER TERRACE DEPOSITS) 3.50 - 3.60m: Clayey. 3.90 - 4.05m: Band of subangular and subrounded fine and medium flint and chalk gravel. 4.10 - 4.20m: Clayey. 4.20 - 4.65m: Loose.			
	19D	3.80	3.90								
	20D*	3.80	3.90		Vo 0.0						
	21D	4.20	4.65	Nil	S 7						
	22X	4.20	5.20								
	23D	4.70	4.80								
	24D*	4.80	4.90		Vo 0.0			4.90 - 5.00m: Clayey.			
	25D	5.20	5.65	Nil	S 16						
	26X	5.20	6.20								
	27D	5.90	6.00								
	28D*	6.00	6.10		Vo 0.0			5.85 - 5.95m: Flint cobble	6.05	1.00	
	29D	6.20	6.65	6.20	S 38			5.95 - 6.05m: Band of subangular and subrounded fine to coarse flint and chalk gravel.			
	30X	6.20	7.20					Dense dark grey slightly sandy angular to subrounded fine to coarse flint and rare chalk GRAVEL. (RIVER TERRACE DEPOSITS)			
	31D	6.90	7.00								
	32D*	7.00	7.10		Vo 0.0				7.10	-0.05	
		7.20	7.65	7.20	S 42			Dense off-white locally grey mottled orangish brown slightly sandy gravelly SILT. Gravel is angular to subrounded fine to coarse chalk and flint. (RIVER TERRACE DEPOSITS)			
	33X	7.20	8.20								
	34D	7.65	7.75								
	35D*	7.75	7.85		Vo 0.0				7.80	-0.75	
								Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-4.20m and (113mm) 4.20-10.20m.

CASING: 140mm diam to 10.20m.

BACKFILL: On completion, borehole backfilled with bentonite 10.20-9.50m. A slotted standpipe (50mm) with geosock was installed to 9.30m, granular response zone 9.50-7.00m, bentonite seal 7.00-0.30m, concrete and raised helmet cover 0.30-0.00m.

Borehole installed on 10/06/2015.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-10.20m. Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered prior to use of water flush.

AGS

CONTRACT	CHECKED
30766	EC

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BOREHOLE LOG

BH703

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 2

Start Date 9 June 2015 — Easting 561557.1 — Scale 1 : 50

End Date 10 June 2015 — Northing 173367.0 — Ground level 7.05mOD — Depth 10.20 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	36X	8.20 - 8.65 8.20 - 9.20	8.20	S 11			Firm orangish brown mottled grey and white slightly sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse chalk and flint. (RIVER TERRACE DEPOSITS) 8.20 - 9.20m: Limited Recovery.	8.85	-1.80	
09/06/15 1730hrs 4.64m	37X 38D 39D*	9.20 - 9.65 9.20 - 10.20 9.60 - 9.70 9.70 - 9.80	9.20	S 4 Vo 0.0			Structureless CHALK composed of white slightly gravelly SILT. Gravel is subangular and subrounded fine to coarse very weak medium density white chalk, rarely angular fine and medium flint. (Probably CIRIA Grade Dm)	10.20	-3.15	
10/06/15 0830hrs 4.83m		10.20 - 10.65	10.20	S 8			Borehole completed at 10.20m.	{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

AGS

CONTRACT **30766**

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BOREHOLE LOG

BH704

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 3

Start Date 17 June 2015 — Easting 561641.4 — Scale 1 : 50

End Date 19 June 2015 — Northing 172996.5 — Ground level 6.80mOD — Depth 20.65 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
17/06/15 1225hrs	1B	0.30 - 0.50					Firm dark brown slightly gravelly clayey SILT with rare rootlets (up to 1mm diam). Gravel is subangular to rounded fine and medium flint. (MADE GROUND)			
	2D*	0.30 - 0.50		Vo 0.0						
	3B	0.50 - 0.60								
	4D*	0.50 - 0.60		Vo 0.0						
	5B	1.00 - 1.20								
	6D*	1.00 - 1.20		Vo 0.0						
	7D	1.20 - 1.65	Nil	S 4				1.20	5.60	
	8X	1.20 - 2.20					Very loose brown slightly gravelly very clayey fine and medium SAND with rare rootlets (up to 1mm diam). Gravel is subangular to rounded fine and medium flint, rarely white chalk. (ALLUVIUM)			
	9D*	1.80 - 1.90		Vo 0.0						
	10D	1.90 - 2.00						2.05	4.75	
	11D	2.20 - 2.65	Nil	S 3			Very soft brown slighty gravelly sandy CLAY. Gravel is subangular to rounded fine and medium flint, rarely white chalk. (ALLUVIUM)			
	12X	2.20 - 3.20								
	13D*	2.60 - 2.70		Vo 0.0						
	14D	2.70 - 2.80						2.90	3.90	
	15UT	3.20 - 3.65	Nil				Soft light greyish brown and orangish brown slightly gravelly sandy CLAY with frequent black pockets (up to 4mm) and rare rootlets (up to 1mm diam). (ALLUVIUM)			
	17X	3.20 - 4.20								
	18D*	3.60 - 3.70		Vo 0.0						
	16D	3.65 - 3.80								
	19D	3.80 - 3.90								
	20D	4.20 - 4.65	Nil	S 5				4.25	2.55	
	21X	4.20 - 5.20					Soft greyish brown and dark purplish brown slightly gravelly organic CLAY with rare fine and medium gravel sized pockets of dark brown and black peat. Gravel is subangular and subrounded fine and medium flint, rarely white chalk. (ALLUVIUM)			
	22D*	4.50 - 4.60		Vo 0.0						
	23D	4.60 - 4.70								
		5.20 - 5.65	5.20	S 4			4.75 - 4.90m: Very soft brown gravelly clay with frequent orange staining and frequent decomposed organic material. Gravel is subangular fine to coarse chalk.	4.90	1.90	
	24X	5.20 - 6.20								
	25D*	5.70 - 5.80		Vo 0.0			Structureless CHALK composed of white and cream locally stained orange slightly gravelly SILT. Gravel is subrounded and rounded fine to coarse very weak medium and high density white with rare brown specks chalk. (Probably CIRIA Grade Dm)	5.70	1.10	
	26D	5.80 - 5.90								
		6.20 - 6.65	6.15	S 10			5.10m: Coarse gravel sized rinded black nodular flint.			
	27X	6.20 - 7.20					5.20 - 5.30m: Cobble sized rinded black flint, recovered non-intact.			
	28D*	6.70 - 6.80		Vo 0.0						
	29D	6.80 - 6.90					Structureless CHALK composed of white and light cream slightly sandy gravelly SILT. Gravel is subangular and subrounded fine to coarse extremely weak and very weak low and medium density white with rare orange staining and rare brown specks chalk. (Probably CIRIA Grade Dm)			
	30D	7.20 - 7.65	7.20	S 8			5.70m: Coarse gravel sized rinded black nodular flint.			
	31X	7.20 - 8.20					5.75 - 6.20m: Frequent orange staining.			
	32D*	7.80 - 7.90		Vo 0.0						
	33D	7.90 - 8.00					Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-5.20m and (113mm) 5.20-20.20m.

CASING: 140mm diam to 19.20m.

BACKFILL: On completion, borehole backfilled with cement:bentonite grout (2:1 mix) 20.65-5.30m and bentonite pellets 5.30-4.70m. A slotted standpipe (50mm) with geosock was installed to 4.60m, granular response zone 4.70-1.20m, bentonite seal 1.20-0.40m, gravel 0.40-0.30m, concrete and raised helmet cover 0.30-0.00m.

Borehole installed on 19/06/2015.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-11.70m. Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
4.20	Nil	4.10	20	Water strike following run 3.20-4.20m.

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BOREHOLE LOG

BH704

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 3

Start Date 17 June 2015 — Easting 561641.4 — Scale 1 : 50

End Date 19 June 2015 — Northing 172996.5 — Ground level 6.80mOD — Depth 20.65 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	34D	8.20 - 8.65	8.20	S 14			6.10 - 6.15m: Cobble sized rinded black flint, recovered non-intact.			
	35X	8.20 - 9.20					6.25m: Coarse gravel sized rinded black nodular flint. 7.75m: Coarse gravel sized rinded black nodular flint. 8.05 - 8.15m: Subangular chalk cobble.			
	36D*	9.00 - 9.10		Vo 0.0			8.20 - 8.25m: Coarse gravel sized rinded black nodular flint.			
	37D	9.10 - 9.20								
	38D	9.20 - 9.65	9.20	S 14			9.10 - 9.45m: Cobble sized rinded black nodular flint, recovered non-intact.			
	39X	9.20 - 10.20								
17/06/15 1805hrs 4.17m	40D*	9.80 - 9.90		Vo 0.0			9.75 - 9.95m: Localised orange staining.			
	41D	9.90 - 10.00								
	42D	10.20 - 10.65	10.20	S 8						
18/06/15 0830hrs 4.06m	43X	10.20 - 11.70					10.20 - 10.35m: Cobble sized rinded black flint, recovered non-intact. 10.40 - 10.45m: Orange staining. 10.80 - 10.95m: Cobble sized rinded black nodular flint, recovered non-intact. 10.80 - 11.35m: Frequent orange staining.			
	44D*	11.00 - 11.10						11.50	-4.70	
	45D	11.70 - 12.15	10.20	S 6			Structureless CHALK composed of slightly sandy silty angular to subrounded fine to coarse GRAVEL. Clasts are extremely weak and very weak medium density white with rare black and brown specks chalk. Matrix is white and cream. (Probably CIRIA Grade Dc)			
	46X	11.70 - 13.20								
	47D	12.40 - 12.50					12.40m: Rare orange staining. 12.60m: Subhorizontal band (5mm) of reddish brown silty clay.			
	48D	13.20 - 13.65	13.20	S 18						
	49X	13.20 - 14.70					13.20 - 13.35m: Cobble sized rinded black flint, recovered non-intact. 13.40 - 13.50m: Frequent lenses of reddish brown slightly sandy silty clay (up to 45mm).			
	50D	13.90 - 14.00					13.90 - 13.95m: Frequent pockets of reddish brown slightly sandy silty clay.	14.05	-7.25	
	51D	14.70 - 15.15	14.70	S 24			Structureless CHALK composed of white and locally cream slightly sandy gravelly SILT. Gravel is subangular and subrounded fine and medium white with rare black specks chalk. (Probably CIRIA Grade Dm) 14.35m: Frequent subhorizontal orange staining (up to 2mm). 14.45 - 14.50m: Frequent subhorizontal bands (up to 5mm) of brown and reddish brown slightly sandy silty clay.			
	52X	14.70 - 16.20						15.50	-8.70	
	53Xs	15.60					14.80 - 14.90m: Lens (15x40x90mm) of reddish orange slightly sandy silt. 15.35 - 15.45m: Cobble sized rinded black nodular flint, recovered non-intact.			
	54D	15.70 - 15.80								
	55Xs	16.00								
	56D	16.20 - 16.65	16.20	S 18				16.20	-9.40	
	57X	16.20 - 17.70					Structureless CHALK composed of slightly sandy silty angular to subrounded fine to coarse GRAVEL with a low subangular cobble content. Clasts are extremely weak and very weak medium density white with rare black specks chalk. Matrix is white locally cream. (Probably CIRIA Grade Dc) 15.85 - 15.90m: Brown gravelly clay. 16.10 - 16.20m: Rare orange staining.			
	58D	16.90 - 17.00								
	59D	17.70 - 18.15	17.70	S 27			Structureless CHALK composed of white slightly sandy slightly gravelly SILT. Gravel is angular to subrounded fine and medium white with rare black specks chalk. (Probably			
	60X	17.70 - 19.20								
							Continued Next Page	{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

BH704

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 3

Start Date 17 June 2015 — Easting 561641.4 — Scale 1 : 50

End Date 19 June 2015 — Northing 172996.5 — Ground level 6.80mOD — Depth 20.65 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	61Xs	18.10						CIRIA Grade Dm)			
	62D	18.30	18.40					16.80 - 17.20m: Gravelly. 17.30 - 17.50m: Frequent orange staining. 18.30 - 18.35m: Cobble sized rinded black nodular flint, recovered non-intact. 18.50 - 18.60m: Gravel absent. Possibly drilling disturbed.			
	63D	19.20	19.65	19.20	S 24			18.95m: Subhorizontal brown clay band (2mm). 19.10 - 19.20m: Rare orange staining.			
	64X	19.20	20.20								
								19.55 - 19.65m: Cobble sized rinded black flint, recovered non-intact.	19.70	-12.90	
	65D	19.80	19.90								
								Structureless CHALK composed of white slightly sandy gravelly SILT. Gravel is angular to subrounded fine to coarse extremely weak low and medium density white with rare black specks chalk. (Probably CIRIA Grade Dm)			
18/06/15 1420hrs 4.10m	66D	20.20	20.65	19.20	S 21			19.75 - 19.80m: Rare orange staining.	20.65	-13.85	
								Borehole completed at 20.65m.			
									{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 3

Start Date 17 June 2015 — Easting 561618.7 — Scale 1 : 50

End Date 18 June 2015 — Northing 172723.4 — Ground level 5.60mOD — Depth 20.25 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
17/06/15 0830hrs	1B	0.30 - 0.40					Dark brown mottled grey gravelly clayey SILT. Gravel is subangular to well rounded fine to coarse flint, sandstone and brick. (MADE GROUND)	0.50	5.10	
	2D*	0.30 - 0.40		Vo 0.0			0.50m: Geotextile membrane across pit.			
	3B	0.50 - 0.70					Firm light yellowish brown slightly sandy silty CLAY with rare subangular and subrounded fine and medium sandstone and flint gravel. (MADE GROUND)	1.20	4.40	
	4D*	0.50 - 0.70		Vo 0.0			Medium dense dark grey, brown and white silty sandy angular to subrounded fine to coarse flint and rare chalk GRAVEL. (HEAD DEPOSITS)			
	5B	1.00 - 1.20								
	6D*	1.00 - 1.20		Vo 0.0						
	7D	1.20 - 1.65	Nil	S 23						
	8X	1.20 - 2.20								
	9D*	1.80 - 1.90		Vo 0.0						
	10D	1.90 - 2.00								
	11D	2.20 - 2.65	Nil	S 16			2.20 - 2.50m: Brown. Medium dense yellowish brown mottled light brown silty gravelly fine and medium SAND. Gravel is subangular to rounded fine to coarse flint and chalk. (HEAD DEPOSITS)	2.20	3.40	
	12X	2.20 - 3.20								
	13D*	2.90 - 3.00		Vo 0.0						
	14D	3.00 - 3.10								
		3.20 - 3.65	Nil	S 14			Structureless CHALK composed of white mottled cream slightly sandy slightly gravelly SILT. Gravel is subangular to rounded fine to coarse extremely weak and very weak medium density with rare black specks chalk and rare angular coarse flint. (Probably CIRIA Grade Dm)	3.20	2.40	
	15X	3.20 - 4.20					3.50m: Coarse gravel sized pocket of brown clay.			
	16D*	3.80 - 3.90		Vo 0.0			3.80m: 5mm subhorizontal band of brown clay.			
	17D	3.90 - 4.00					NO RECOVERY. Casing jammed over barrel during advancing.	4.20	1.40	
		5.20 - 5.65	4.20	S 4				5.20	0.40	
	18X	5.20 - 6.20					Structureless CHALK composed of white mottled cream with orange staining slightly sandy slightly gravelly SILT. Gravel is angular to subrounded fine to coarse very weak medium density white with rare black specks chalk and rare subangular medium flint. (Probably CIRIA Grade Dm)			
	19D*	5.90 - 6.00		Vo 0.0			5.60 - 5.75m: Orange and yellow stained.			
	20D	6.00 - 6.10					5.70m: Coarse gravel sized pocket of brown clay.			
		6.20 - 6.65	6.20	S 4			6.20m: Cobble sized rinded black nodular flint.			
	21X	6.20 - 7.20					6.65m: Coarse gravel sized pocket of brown clay.			
	22D*	6.80 - 6.90		Vo 0.0						
	23D	6.90 - 7.00								
		7.20 - 7.65	7.20	S 5						
	24X	7.20 - 8.20					7.55m: Coarse gravel sized pocket of brown clay.			
	25D*	7.80 - 7.90		Vo 0.0						
	26D	7.90 - 8.00					7.80 - 8.20m: Gravelly.			
							Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-3.20m and (113mm) 3.20-19.80m.

CASING: 140mm diam to 19.80m.

BACKFILL: On completion, borehole backfilled with bentonite 20.25-19.50m. A slotted standpipe (50mm) with geosock was installed to 19.50m, granular response zone 19.50-3.70m, bentonite seal 3.70-0.30m, concrete and traffic rated cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-20.25m. Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered prior to use of water flush.

AGS

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 3

Start Date 17 June 2015 — Easting 561618.7 — Scale 1 : 50

End Date 18 June 2015 — Northing 172723.4 — Ground level 5.60mOD — Depth 20.25 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
		8.20 - 8.65	8.20	S 7			7.90m: Orange stained.			
	27X	8.20 - 9.20					8.20 - 9.20m: Limited Recovery (65%)			
								8.55	-2.95	
	28D*	8.80 - 8.90		Vo 0.0			Structureless CHALK composed of white mottled cream with yellow staining slightly sandy slightly gravelly SILT. Gravel is subangular and subrounded fine and medium rarely coarse very weak medium density white with rare black specks chalk. (Probably CIRIA Grade Dm)			
	29D	8.90 - 9.00					8.65m: Coarse gravel sized pocket of brown clay.			
		9.20 - 9.65	9.20	S 12			8.80 - 8.95m: Closely spaced thin laminae of light brown clay.			
	30X	9.20 - 10.20					9.00 - 9.15m: Cobble sized rinded black nodular flint, recovered non-intact.			
	31D	9.80 - 9.90					9.60m: Cobble of chalk (60x65x80mm).			
		10.20 - 10.65	10.20	S 10			10.20 - 10.60m: Gravelly.			
	32X	10.20 - 11.70					10.40 - 10.50m: Yellow stained.			
	33D	10.70 - 10.80								
								11.05	-5.45	
	34D	11.70 - 12.15	11.70	S 14			Structureless CHALK composed of slightly sandy silty angular to subrounded fine to coarse GRAVEL. Clasts are very weak and weak low and medium density white with rare black specks and orange and yellow staining chalk. Matrix is white stained yellow. (Probably CIRIA Grade Dc)			
	35X	11.70 - 13.20					11.10m: Cobble sized rinded black nodular flint.			
	36D	11.80 - 11.90					11.50m: Cobble sized rinded black nodular flint, recovered non-intact.			
								12.80	-7.20	
	37D	13.00 - 13.10					Structureless CHALK composed of white with orange staining slightly sandy slightly gravelly SILT. Gravel is angular to subrounded fine to coarse weak medium density white with rare black specks chalk and rare subangular fine and medium flint. (Probably CIRIA Grade Dm)			
	38D	13.20 - 13.65	13.20	S 12			13.25m: Coarse gravel sized pocket of light brown clay.			
	39X	13.20 - 14.70					13.30m: Orange stained.			
	40D	13.80 - 13.90					13.50 - 13.70m: Gravelly.			
							14.10 - 14.30m: Gravelly.			
	41D	14.70 - 15.15	14.70	S 17						
	42X	14.70 - 16.20					15.00 - 15.10m: Gravelly.			
	43D	15.20 - 15.30					15.30m: 2mm subhorizontal band of brown clay.			
							15.50m: Cobble sized rinded black nodular flint.			
							15.60 - 15.80m: Yellow stained.			
	44D	16.20 - 16.65	16.20	S 23			16.10m: Orange stained.			
	45X	16.20 - 17.70					16.30m: Coarse gravel sized pocket of orange staining.			
	46D	16.60 - 16.70					16.60 - 16.70m: Sandy.			
							16.80 - 17.20m: Gravelly.			
17/06/15 1800hrs 2.54m	47D	17.50 - 17.60								
	48D	17.70 - 18.15	17.70	S 27						
18/06/15 0800hrs 2.46m	49X	17.70 - 18.30					17.70 - 18.30m: Gravelly.			
							Continued Next Page	{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 3

Start Date 17 June 2015 — Easting 561618.7 — Scale 1 : 50

End Date 18 June 2015 — Northing 172723.4 — Ground level 5.60mOD — Depth 20.25 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
		18.30	18.68	17.70	C 39						
	50X	18.30	19.80					18.30 - 18.50m: Gravelly. 18.40m: Orange stained. 18.50 - 18.60m: Cobble sized rinded black nodular flint, recovered non-intact.			
	51D	19.00	19.10					19.00 - 19.10m: Orange stained. 19.00 - 19.25m: Gravelly.			
								19.50m: 2mm subvertical orange staining.			
18/06/15 1000hrs 2.20m	52D	19.80	20.25	19.80	S 21			19.70m: Orange stained.			
									20.25	-14.65	
								Borehole completed at 20.25m.			
									{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

AGS

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 4

Start Date 11 June 2015 — Easting 561557.8 — Scale 1 : 50

End Date 16 June 2015 — Northing 172815.6 — Ground level 9.15mOD — Depth 29.80 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
11/06/15 1500hrs	1B	0.30	0.40						Grass over soft dark brown sandy clayey SILT with rare rootlets (up to 2mm diam). (MADE GROUND)	0.05	9.10	
	2D*	0.30	0.40		Vo 0.0							
	3B	0.50	0.70						Firm dark brown mottled light brown sandy clayey SILT with rare rootlets (up to 2mm diam) and rare subangular fine sandstone gravel. (MADE GROUND)			
	4D*	0.50	0.70		Vo 0.0							
	5B	1.00	1.20									
	6D*	1.00	1.20		Vo 0.0							
	7D	1.20	1.65	Nil	S 9					1.20	7.95	
	8X	1.20	2.20						Firm yellowish brown slightly gravelly slightly sandy silty CLAY with rare rootlets (up to 2mm diam). Gravel is subangular and subrounded fine and medium chalk. (RIVER TERRACE DEPOSITS)			
	9D	1.40	1.50									
	10D*	1.40	1.50		Vo 0.0							
	11D	2.00	2.10									
	12D*	2.00	2.10		Vo 0.0					1.95	7.20	
	13D	2.20	2.65	Nil	S 12				Medium dense yellowish brown with rare black specks slightly gravelly sandy SILT with rare rootlets (up to 2mm diam). Gravel is subangular fine chalk. (RIVER TERRACE DEPOSITS)			
	14X	2.20	3.20									
	15D	2.80	2.90									
11/06/15 1730hrs Dry	16D*	2.80	2.90		Vo 0.0							
	17D	3.20	3.65	Nil	S 15							
12/06/15 0800hrs Dry	18X	3.20	4.20							3.40	5.75	
	19D	3.40	3.50						Stiff orangish brown slightly gravelly slightly sandy silty CLAY. Gravel is subrounded fine chalk. (RIVER TERRACE DEPOSITS)			
	20D*	3.40	3.50		Vo 0.0							
	22D	4.20	4.65	Nil	S 17							
	23X	4.20	5.20									
	21D	4.20	4.30							4.55	4.60	
	24D*	4.30	4.40		Vo 0.0				4.55 - 5.05m: Gravel is fine and medium.			
	25D	5.20	5.65	Nil	S 35				Dense and medium dense dark grey, brown and white slightly silty slightly sandy subangular and subrounded fine to coarse flint and rare chalk GRAVEL with low flint cobble content. (RIVER TERRACE DEPOSITS)			
	26X	5.20	6.20									
	27D	5.30	5.40									
	28D*	5.40	5.50		Vo 0.0							
	29D	6.00	6.10									
	30D*	6.00	6.10		Vo 0.0				5.90 - 6.20m: Yellowish brown slightly gravelly silty fine and medium sand. Gravel is subangular and subrounded fine and medium flint and chalk.			
	31D	6.20	6.65	6.20	S 27				6.40 - 6.55m: Grey mottled brown slightly gravelly fine and medium sand. Gravel is angular to subrounded fine and medium flint and chalk.			
	32X	6.20	7.20									
	33D	6.80	6.90									
	34D*	6.90	7.00		Vo 0.0							
	35D	7.20	7.65	7.20	S 27							
	36X	7.20	8.20									
	37D	8.00	8.10									
	38D*	8.00	8.10		Vo 0.0							

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{8.00}

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-3.20m and (113mm) 3.20-26.80m. Waterflush rotary core drilled (116mm) 26.80-29.80m.

CASING: 140mm diam to 26.60m.

BACKFILL: On completion, borehole backfilled with bentonite pellets 29.80-29.30m. A slotted standpipe (50mm) with geosock was installed to 29.30m, granular response zone 29.30-8.50m, bentonite seal 8.50-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-29.80m. Driller notes loss of flush 26.80-29.80m. Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered prior to use of water flush.

AGS

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 4

Start Date 11 June 2015 — Easting 561557.8 — Scale 1 : 50

End Date 16 June 2015 — Northing 172815.6 — Ground level 9.15mOD — Depth 29.80 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
		8.20 - 8.65	8.20	S 2					8.25	0.90	
	39X	8.20 - 9.20						Structureless CHALK composed of cream mottled white slightly gravelly sandy SILT. Gravel is subangular and subrounded fine to coarse very weak medium density white with rare black specks chalk and rare angular to subrounded fine and medium flint. (Probably CIRIA Grade Dm)			
	40D	8.90 - 9.00									
	41D*	8.90 - 9.00		Vo 0.0							
	42D	9.20 - 9.65	9.20	S 9							
	43X	9.20 - 10.20						9.55 - 9.70m: Closely spaced cobble sized rinded black nodular flints.			
	44D	10.00 - 10.10							9.95	-0.80	
	45D*	10.00 - 10.10		Vo 0.0				Structureless CHALK composed of white locally stained orange and yellow slightly sandy slightly gravelly SILT. Gravel is subangular and subrounded fine to coarse extremely weak and very weak low and medium density white with rare black specks chalk and rare angular to subrounded fine to coarse flint. (Probably CIRIA Grade Dm)			
	46D	10.20 - 10.65	10.20	S 13							
	47X	10.20 - 11.70									
	48D	10.70 - 10.80									
	49D*	10.80 - 10.90		Vo 0.0							
12/06/15 1300hrs 8.93m		11.70 - 12.15	11.70	S 11				10.30m: Cobble sized rinded black nodular flint, recovered non-intact. 11.05m: 20mm bivalve. 11.10m: Possible relict fracture infilled with up to 5mm light brown clay.			
15/06/15 1100hrs 6.24m	50X	11.70 - 13.20						11.30 - 12.00m: Closely spaced cobble sized rinded black nodular flints.			
	51D	11.90 - 12.00									
	52D*	12.00 - 12.10		Vo 0.0							
		13.20 - 13.65	13.20	S 8							
	53X	13.20 - 14.70									
	54D	13.30 - 13.40									
	55D*	13.40 - 13.50		Vo 0.0				13.70m: Cobble sized rinded black nodular flint.			
	56D	14.30 - 14.40									
		14.70 - 15.15	14.70	S 15							
	57X	14.70 - 16.20									
	58D	15.55 - 15.65						15.50 - 18.90m: Gravel is angular to subrounded.			
	59D	16.20 - 16.65	16.20	S 12							
	60X	16.20 - 17.70									
	61D	17.00 - 17.10						16.90m: Cobble sized rinded black nodular flint.			
	62D	17.70 - 18.15	17.70	S 17				17.50 - 17.60m: Cobble sized rinded black nodular flint, recovered non-intact.			
	63X	17.70 - 19.20									
								Continued Next Page	{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 4

Start Date 11 June 2015 — Easting 561557.8 — Scale 1 : 50

End Date 16 June 2015 — Northing 172815.6 — Ground level 9.15mOD — Depth 29.80 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	64D	18.10 - 18.20						18.20m: Possible relict fracture infilled with up to 5mm light brown clay.			
									18.90	-9.75	
	65D	19.20 - 19.65	19.20	S 21				Structureless CHALK composed of white locally stained orange, yellow and cream slightly gravelly sandy SILT. Gravel is subangular and subrounded fine to coarse very weak medium density white with rare black specks chalk and rare angular fine and medium flint. (Probably CIRIA Grade Dm)			
	66X	19.20 - 20.70									
	67D	19.50 - 19.60									
								20.05 - 20.50m: Light orange stained.			
								20.10 - 20.40m: Closely spaced cobble sized rinded black nodular flints.			
	68D	20.50 - 20.60									
	69D	20.70 - 21.15	20.70	S 30							
	70X	20.70 - 22.20									
								21.40m: Cobble sized rinded black nodular flint, recovered non-intact.			
	71D	21.60 - 21.70									
15/06/15 1730hrs 6.59m											
	72D	22.20 - 22.65	22.20	S 60							
16/06/15 0800hrs 6.74m	73X	22.20 - 23.20						22.20 - 22.50m: Cobble sized rinded black nodular flint, recovered non-intact.			
	74D	22.70 - 22.80									
								23.00 - 23.25m: Gravelly.			
	75X	23.20 - 24.00									
	76D	23.60 - 23.70						23.65 - 24.00m: Gravelly.			
	77D	24.00 - 24.45	24.00	S 45							
	78X	24.00 - 25.50						24.10m: Cobble sized rinded black nodular flint.			
	79D	24.65 - 24.75						24.70 - 24.90m: Gravelly.			
	80D	25.50 - 25.95	25.50	S 47				25.30 - 26.10m: Gravelly.			
	81X	25.50 - 26.60									
									26.10	-16.95	
	82D	26.30 - 26.40						Structureless CHALK composed of slightly sandy silty subangular and subrounded fine to coarse GRAVEL with low subangular cobble content. Clasts are weak medium density white. Matrix is white. Very closely spaced bands of cobble sized rinded nodular flint. (Probably CIRIA Grade Dc)			
	83X	26.60 - 26.80	26.60						26.80	-17.65	
	84C	26.80 - 28.30			13 0 0			Limited recovery (13%) of rinded dark grey nodular FLINT, recovered non-intact. Core loss presumed to be chalk, not recovered due to flint jamming in core barrel.			
								Continued Next Page	{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 4 of 4

Start Date 11 June 2015 — Easting 561557.8 — Scale 1 : 50

End Date 16 June 2015 — Northing 172815.6 — Ground level 9.15mOD — Depth 29.80 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
		28.30	28.75	26.60	S 25					28.30	-19.15	
	85C	28.30	29.80			83 35 15			Structureless CHALK composed of slightly sandy silty subangular and subrounded fine to coarse GRAVEL. Clasts are very weak and weak low and medium density white. Matrix is white. (CIRIA Grade Dc)	28.65	-19.50	
	86Cs	28.70	28.95			NI 115 230			Extremely weak and very weak medium density white with rare black specks CHALK. Fractures are 50-70° closely rarely medium spaced planar rough locally stained orange with veneer of white and yellow silt. (CIRIA Grade B3)			
16/06/15 1420hrs 6.24m									28.75m: Cobble sized rinded black nodular flint, recovered non-intact. 29.25m: Cobble sized rinded black nodular flint, recovered non-intact. 29.35 - 29.55m: Orange stained.	29.80	-20.65	
		29.80	30.25	26.60	S 27				Borehole completed at 29.80m.	{38.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 3

Start Date 10 June 2015 — Easting 561428.9 — Scale 1 : 50

End Date 11 June 2015 — Northing 172862.1 — Ground level 14.35mOD — Depth 20.20 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
10/06/15 1215hrs	1B	0.30 - 0.40					Grass over soft dark brown slightly gravelly sandy clayey SILT. Gravel is subangular to well rounded fine and medium sandstone, flint, crystalline, brick and tile. (MADE GROUND)	0.10	14.25	
	2D*	0.30 - 0.40		Vo 0.0						
	3B	0.50 - 0.70								
	4D*	0.50 - 0.70		Vo 0.0						
	5B	1.00 - 1.20								
	6D*	1.00 - 1.20		Vo 0.0						
	7D	1.20 - 1.65	Nil	S 10			Firm dark brown slightly gravelly sandy clayey SILT. Gravel is subangular to well rounded fine to coarse sandstone, flint, granite, tile and chalk. (MADE GROUND)	1.20	13.15	
	8X	1.20 - 2.20					Firm dark brown mottled brown slightly sandy slightly gravelly CLAY with rare rootlets (up to 2mm diam) and rare fine and medium gravel sized pockets of ash. Gravel is angular to subrounded fine to coarse chalk, flint, rare brick and concrete. (MADE GROUND)			
	9D	1.30 - 1.45								
	10D*	1.30 - 1.45		Vo 0.0						
	11D	1.85 - 1.95								
	12D*	1.85 - 1.95		Vo 0.0						
	13D	2.20 - 2.65	Nil	S 4			1.55 - 1.65m: Cobble of concrete (115x115x115mm).			
	14X	2.20 - 3.20					2.20 - 2.55m: Soft.			
	15D	2.35 - 2.45						2.55	11.80	
	16D*	2.35 - 2.45		Vo 0.0			Firm grey mottled dark grey gravelly CLAY with rare wood fragments (up to 5mm), rootlets (up to 2mm diam) and rare fine and medium gravel sized pockets of ash. Gravel is subangular and subrounded fine to coarse chalk, flint and brick. (MADE GROUND)			
	17D	2.80 - 2.90								
	18D*	2.90 - 3.00		Vo 0.0						
	19D	3.20 - 3.65	Nil	S 4			3.20 - 3.65m: Soft.			
	20X	3.20 - 4.20								
	21D	3.30 - 3.40								
	22D*	3.40 - 3.50		Vo 0.0				3.70	10.65	
	23D	3.85 - 3.95					Stiff dark brown mottled orangish brown and black slightly sandy slightly gravelly CLAY with rare roots (up to 20mm diam), rootlets (up to 2mm diam) and rare fine and medium gravel sized pockets of ash. Gravel is subangular and subrounded fine to coarse chalk and rare flint. (MADE GROUND)			
	24D*	3.85 - 3.95		Vo 0.0						
	25D	4.20 - 4.65	Nil	S 24						
	26X	4.20 - 5.20								
	27D	4.40 - 4.50								
	28D*	4.50 - 4.60		Vo 0.0				4.70	9.65	
	29D	5.00 - 5.10					Firm brown slightly sandy slightly gravelly silty CLAY with rare roots (up to 5mm diam) and rootlets (up to 2mm diam). Gravel is subangular and subrounded fine and coarse chalk and flint. (MADE GROUND)			
	30D*	5.10 - 5.20		Vo 0.0						
	31D	5.20 - 5.65	Nil	S 8						
	32X	5.20 - 6.20								
	33D	5.60 - 5.70								
	34D*	5.60 - 5.70		Vo 0.0						
		6.20 - 6.65	6.20	S 10						
	35X	6.20 - 7.20								
	36D	6.55 - 6.65					6.40 - 6.50m: Cobble of concrete (45x100x105mm).			
	37D*	6.55 - 6.65		Vo 0.0						
	38D	7.20 - 7.65	7.20	S 17						
	39X	7.20 - 8.20					7.20 - 7.65m: Stiff.			
								7.70	6.65	
	40D	8.00 - 8.10								
	41D*	8.00 - 8.10		Vo 0.0						
							Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-4.20m and (113mm) 4.20-20.20m.

CASING: 140mm diam to 19.20m.

BACKFILL: On completion, borehole backfilled with bentonite pellets 20.20-19.50m. A slotted standpipe (50mm) with geosock was installed to 19.50m, granular response zone 19.50-10.50m, bentonite seal 10.50-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-20.20m. Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered prior to use of water flush.

AGS

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 3

Start Date 10 June 2015 — Easting 561428.9 — Scale 1 : 50

End Date 11 June 2015 — Northing 172862.1 — Ground level 14.35mOD — Depth 20.20 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	42D	8.20 - 8.65	8.20	S 41			Dense (?) dark grey stained brown slightly silty subangular to rounded fine to coarse flint rarely chalk GRAVEL with rare fine gravel sized shell fragments.	8.40	5.95	
	43X	8.20 - 9.20					Firm brown slightly sandy slightly gravelly silty CLAY. Gravel is subangular and subrounded fine to coarse flint and chalk. (RIVER TERRACE DEPOSITS)			
	44D	8.90 - 9.00								
	45D*	8.90 - 9.00		Vo 0.0						
	46D	9.20 - 9.65	9.20	S 47				9.20	5.15	
	47X	9.20 - 10.20					Dense dark grey slightly silty subangular to rounded fine to coarse flint GRAVEL with rare fine gravel sized shell fragments. (RIVER TERRACE DEPOSITS)			
	48D	9.70 - 9.80								
	49D*	9.70 - 9.80		Vo 0.0						
		10.20 - 10.65	10.20	S 25				10.30	4.05	
	50X	10.20 - 11.70					Structureless CHALK composed of white slightly sandy slightly gravelly SILT. Gravel is subangular to rounded fine and medium white with frequent black specks chalk, rare subangular medium flint. (Probably CIRIA Grade Dm) 10.75 - 10.90m: Coarse gravel sized pocket of brown fine and medium sand.			
	51D	10.70 - 10.80								
	52D*	10.80 - 10.90		Vo 0.0						
10/06/15 1800hrs 6.16m										
		11.70 - 12.15	11.70	S 3						
11/06/15 0750hrs 9.60m	53X	11.70 - 13.20								
	54D	11.90 - 12.00								
	55D*	11.90 - 12.00		Vo 0.0						
	56D	12.80 - 12.90								
	57D*	12.80 - 12.90		Vo 0.0						
	58UT	13.20 - 13.70	13.20				13.60 - 14.20m: Orange stained. 13.80 - 13.90m: Coarse gravel sized pocket of brown fine and medium sand.			
	59X	13.20 - 14.70								
	60D	14.30 - 14.40						14.30	0.05	
	61D*	14.30 - 14.40		Vo 0.0			Structureless CHALK composed of slightly sandy silty subrounded and rounded fine to coarse GRAVEL. Clasts are very weak medium density white with orange stained chalk. Matrix is white and light grey. (Probably CIRIA Grade Dc)			
		14.70 - 15.15	14.70	S 11						
	62X	14.70 - 16.20								
	63D	15.20 - 15.30								
	64D*	15.20 - 15.30		Vo 0.0			15.20m: Cobble sized flint. 15.70m: Cobble of chalk.			
	65D	15.90 - 16.00								
	66UT	16.20 - 16.70	16.20							
	67X	16.20 - 17.70						16.50	-2.15	
	68D	16.90 - 17.00					Structureless CHALK composed of white locally stained orange sandy gravelly SILT. Gravel is angular to rounded fine to coarse very weak medium density white stained orange chalk, rarely angular to subrounded fine to coarse flint. (Probably CIRIA Grade Dm) 16.90 - 17.10m: Slightly sandy silty gravel.			
		17.70 - 18.15	17.70	S 21			17.50m: Cobble sized flint.			
	69X	17.70 - 19.20								
							Continued Next Page	{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered prior to use of water flush.

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 3

Start Date 10 June 2015 — Easting 561428.9 — Scale 1 : 50

End Date 11 June 2015 — Northing 172862.1 — Ground level 14.35mOD — Depth 20.20 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	70D	17.90	18.00								
	71D	18.90	19.00								
	72D	19.20	19.65	19.20	S 19						
	73X	19.20	20.20								
									19.80	-5.45	
11/06/15 1415hrs 8.58m	74D	19.90	20.00					Structureless CHALK composed of slightly sandy silty angular to subrounded fine to coarse GRAVEL. Clasts are weak medium density white with orange staining. Matrix is white and light grey. (Probably CIRIA Grade Dc)	20.20	-5.85	
								Borehole completed at 20.20m.	{28.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks
				Groundwater not encountered prior to use of water flush.

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

Sheet 1 of 4

Start Date 10 June 2015 Easting 561299.3

Scale 1 : 50

End Date 15 June 2015 Northing 172747.4 Ground level 19.80mOD

Depth 29.95 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
10/06/15 1125hrs	1B	0.30 - 0.50						Grass over soft dark brown sandy clayey SILT. (MADE GROUND)	0.05	19.75	
	2D*	0.30 - 0.50		Vo 0.0							
	3B	0.50 - 0.70						Firm dark brown slightly sandy gravelly silty CLAY. Gravel is subangular to well rounded fine to coarse sandstone, flint, crystalline, tile and chalk. (MADE GROUND)			
	4D*	0.50 - 0.70		Vo 0.0							
	5B	1.00 - 1.20									
	6D*	1.00 - 1.20		Vo 0.0							
	7D	1.20 - 1.65	Nil	S 8					1.20	18.60	
	8X	1.20 - 2.20						Soft dark greyish brown locally stained red slighty sandy gravelly CLAY with rare fine and medium gravel sized pockets of light brown clayey fine to coarse sand. Gravel is angular to subrounded fine to coarse chalk and flint, rarely sandstone and ceramic. Organic odour. (MADE GROUND)			
	9D	1.35 - 1.45									
	10D*	1.35 - 1.45		Vo 0.0					1.70	18.10	
	11D	1.80 - 2.00									
	12D*	1.80 - 2.00		Vo 0.0							
	13D	2.20 - 2.65	Nil	S 6				1.65m: Pocket (50mm) of dark brown peaty clay.			
	14X	2.20 - 3.20									
	15D	2.40 - 2.50						Soft dark brown locally stained reddish brown slightly sandy gravelly organic CLAY. Gravel is angular to rounded fine to coarse chalk and flint and rare concrete and brick. Organic odour. (MADE GROUND)			
	16D*	2.40 - 2.50		Vo 0.0							
	17W	2.72						2.10 - 2.20m: Subangular concrete cobble.			
	18D	2.80 - 3.00									
	19D*	2.80 - 3.00		Vo 0.0							
	20D	3.20 - 3.65	Nil	S 13							
	21X	3.20 - 4.20							3.40	16.40	
	22D	3.50 - 3.70						Medium dense brown slightly gravelly clayey fine SAND. Gravel is subangular and subrounded fine and medium sandstone and flint, rarely ceramic. (MADE GROUND)			
	23D*	3.50 - 3.70		Vo 0.0							
	24D	4.00 - 4.20									
	25D*	4.00 - 4.20		Vo 0.0							
	26D	4.20 - 4.65	Nil	S 21							
	27X	4.20 - 5.20						4.35 - 4.40m: Stiff reddish brown gravelly clay. Gravel is angular to rounded fine and medium flint.			
	28D	4.60 - 4.70									
	29D*	4.60 - 4.70		Vo 0.0				4.55 - 4.60m: Pocket (40mm) of grey fine and medium sand.	4.70	15.10	
	30UT	5.20 - 5.65	Nil					Soft brown slightly gravelly sandy CLAY with frequent medium gravel sized pockets of grey and greenish blue sandy clay. Gravel is subangular to rounded fine to coarse flint. (HEAD DEPOSITS)			
	31X	5.20 - 6.20									
	32D	5.70 - 5.90									
	33D*	5.70 - 5.90		Vo 0.0					5.90	13.90	
	34D	6.20 - 6.65	Nil	S 16				Firm brownish orange mottled light grey slightly sandy gravelly CLAY. Gravel is angular to rounded fine to coarse flint. Organic odour. (HEAD DEPOSITS)			
	35X	6.20 - 7.20									
	36D	6.50 - 6.70							6.50	13.30	
	37D*	6.50 - 6.70		Vo 0.0				Soft brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine and medium flint, rarely chalk. (HEAD DEPOSITS)			
	38D	6.90 - 7.10									
	39D*	6.90 - 7.10		Vo 0.0				6.70m: Lens of red fine and medium sand (10mmx15mm).			
	40D	7.20 - 7.65	Nil	S 9							
	41X	7.20 - 8.20	7.20						7.75	12.05	
								Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Pioneer rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-7.20m and (113mm) 7.20-25.00m and 26.50-29.50m. Waterflush rotary core drilled (116mm) 25.00-26.50m.

CASING: 140mm diam to 29.50m.

BACKFILL: On completion, a slotted standpipe (50mm) with geosock was installed to 29.00m, granular response zone 29.95-10.00m, bentonite seal 10.00-0.40m, gravel drain 0.40-0.30m, concrete and stop cock cover 0.30-0.00m.

Borehole installed on 15/06/2015.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-12.80m. No anomalies encountered. Driller notes loss of flush 25.00-26.50m. Chalk grade based on CIRIA C574 (2002). Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
3.05	Nil	2.72	20	Strike following run 2.20-3.20m.

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BOREHOLE LOG

BH708

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 4

Start Date 10 June 2015 — Easting 561299.3 — Scale 1 : 50

End Date 15 June 2015 — Northing 172747.4 — Ground level 19.80mOD — Depth 29.95 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	42D	8.20 - 8.65	7.20	S 7				Firm locally stiff brown CLAY with rare subrounded fine chalk and flint gravel. (HEAD DEPOSITS)			
	43X	8.20 - 9.20									
	44D	8.30 - 8.50									
	45D*	8.30 - 8.50		Vo 0.0							
	46D	9.00 - 9.20									
	47D*	9.00 - 9.20		Vo 0.0					8.90	10.90	
								Soft brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine and medium flint and rare chalk. (HEAD DEPOSITS)			
	48UT	9.20 - 9.65	9.20								
	50X	9.20 - 10.20									
	49D	9.65 - 9.80									
10/06/15 1730hrs 6.05m	51D	10.00 - 10.20							9.90	9.90	
	52D*	10.00 - 10.20		Vo 0.0				Structureless CHALK composed of slightly sandy silty angular to rounded fine to coarse GRAVEL. Clasts are very weak low density white and cream chalk. Matrix is light brown and brown. Frequent rounded and subrounded fine to coarse flint gravel. (Probably CIRIA Grade Dc)	10.10	9.70	
	53D	10.20 - 10.65	9.20	S 54							
11/06/15 0825hrs 6.35m	54X	10.20 - 11.50	10.20								
	55D	11.00 - 11.20						Structureless CHALK composed of cream and light brown sandy gravelly SILT. Gravel is subangular to rounded fine to coarse very weak medium density white with rare orange specks chalk and subangular to rounded fine and medium flint. (Probably CIRIA Grade Dm) 10.85 - 10.95m: Subvertical relict fracture, infilled (20mm) with brown clay. 11.20 - 11.40m: Orangish brown. Clayey. 11.40 - 11.50m: Gravelly. Pocket (45mm) of reddish brown fine and medim sand.			
	56D*	11.00 - 11.20		Vo 0.0							
		11.50 - 11.95	11.50	S 13							
	57X	11.50 - 12.80									
	58D	12.20 - 12.40									
	59D*	12.20 - 12.40		Vo 0.0					12.50	7.30	
	60D	12.80 - 13.23	11.50	S 24				Structureless CHALK composed of white sandy gravelly SILT. Gravel is angular to rounded fine to coarse weak medium density white with rare black specks chalk. (Probably CIRIA Grade Dm). 13.40 - 13.55m: Locally stained orange. 13.80m: Chalk cobble, speckled black. 14.10m: Cobble sized black nodular flint.			
	61X	12.80 - 14.30									
	62D	13.20 - 13.40									
	63D*	13.20 - 13.40		Vo 0.0							
	64D	14.00 - 14.20									
	65D*	14.00 - 14.20		Vo 0.0							
	66D	14.30 - 14.75	11.50	S 6							
	67X	14.30 - 15.80									
	68D	15.00 - 15.20							14.95	4.85	
	69D*	15.00 - 15.20		Vo 0.0				Structureless CHALK composed of slightly sandy silty angular to rounded fine to coarse GRAVEL. Clasts are weak medium density white with rare black specks. Matrix is white. Rare angular fine gravel of flint. (Probably CIRIA Grade Dc)			
	70D	15.80 - 16.25	11.50	S 7					15.90	3.90	
	71X	15.80 - 17.30						Structureless CHALK composed of slightly sandy silty angular and subangular fine to coarse GRAVEL. Clasts are weak medium and high density white with black specks locally stained orange chalk. Rare angular and subangular coarse flint gravel. Matrix is white and cream. (Probably CIRIA Grade Dc)			
	72D	17.00 - 17.10									
	73D	17.30 - 17.75	11.50	S 13							
	74X	17.30 - 18.80									
								Continued Next Page	{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 3 of 4

Start Date 10 June 2015 — Easting 561299.3 — Scale 1 : 50

End Date 15 June 2015 — Northing 172747.4 — Ground level 19.80mOD — Depth 29.95 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
								18.20 - 18.40m: Slightly sandy gravelly silt.			
	75D	18.50 - 18.60									
	76D	18.80 - 19.25	11.50	S 29				18.70m: Pocket (30mm) of light orangish brown silty clay.			
	77X	18.80 - 20.30									
	78D	19.50 - 19.60						19.45 - 19.50m: Flint, recovered non-intact.			
									19.90	-0.10	
	79D	20.30 - 20.75	11.50	S 28				Structureless CHALK composed of white gravelly sandy SILT. Gravel is angular to subrounded fine to coarse very weak medium and high density white with rare grey marl seams, rare black specks and rare orange staining chalk. Rare angular medium gravel of flint. (Probably CIRIA Grade Dm)			
	80X	20.30 - 21.50	20.20						20.80	-1.00	
	81D	21.40 - 21.50						Structureless CHALK composed of slightly sandy silty angular to subrounded fine and medium GRAVEL. Clasts are white with abundant orange staining. Matrix is white. Rare medium gravel sized pockets of orangish red clay. (Probably CIRIA Grade Dc)			
	82D	21.50 - 21.95	20.20	S 44							
	83X	21.50 - 22.80						21.70 - 21.95m: Cobble sized black nodular flint, recovered non intact.			
									22.35	-2.55	
	84D	22.70 - 22.80						Structureless CHALK composed of white gravelly locally very gravelly SILT. Gravel is subangular and subrounded fine to coarse very weak low and medium density white with abundant orange staining chalk. (Probably CIRIA Grade Dm)			
	85D	22.80 - 23.25	20.20	S 31							
	86X	22.80 - 24.30						23.50m: 40mm subangular flint gravel.			
									23.70	-3.90	
11/06/15 1750hrs 15.55m	87D	24.20 - 24.30						Structureless CHALK composed of slightly sandy silty angular to subrounded fine and medium GRAVEL. Clasts are white with rare orange staining chalk. Matrix is white. (Probably CIRIA Grade Dc) 24.10 - 24.15m: Cobble sized flint, recovered non-intact. 24.35 - 24.50m: Flint, recovered non-intact.			
	88D	24.30 - 24.75	22.80	S 33							
12/06/15 0820hrs 15.55m	89X	24.30 - 25.00									
									25.00	-5.20	
	90C	25.00 - 26.50	24.95		27 4 0	NI 40 60		Limited recovery (27%) of very weak medium density white with black specks and orange staining CHALK. Fractures are subhorizontal and subvertical to 80° very closely spaced planar smooth infilled (up to 5mm) with white silt locally stained orangish brown. (Probably CIRIA Grade C4) 25.30 - 25.40m: Cobble sized black nodular flint. 25.40 - 26.50m: Assessed zone of core loss.			
	91D	26.10 - 26.20									
	92D	26.50 - 26.95	24.95	S 37					26.50	-6.70	
	93X	26.50 - 28.00						Structureless CHALK composed of slightly sandy silty subangular and subrounded fine to coarse GRAVEL. Clasts are very weak medium density white with orange staining chalk. Matrix is white and cream locally orange stained. (CIRIA Grade Dc)			
									27.40	-7.60	
	94D	27.50 - 27.60						Structureless CHALK composed of white slightly sandy gravelly SILT. Gravel is angular to subrounded fine and medium white with orange staining chalk and rare angular			
		28.00 - 28.45	24.95	S 63							
								Continued Next Page	{28.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

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CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 4 of 4

Start Date 10 June 2015 — Easting 561299.3 — Scale 1 : 50

End Date 15 June 2015 — Northing 172747.4 — Ground level 19.80mOD — Depth 29.95 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	95X	28.00 - 29.50	28.00					and subangular fine to coarse flint. (Probably CIRIA Grade Dm) 28.20 - 28.30m: Cobble sized black nodular flint, recovered non-intact. 28.75 - 29.05m: Cobble sized black nodular flint, recovered non-intact. 29.25 - 29.45m: Cobble sized black nodular flint, recovered non-intact.			
	96D	29.00 - 29.10									
12/06/15 1325hrs 15.55m	97D	29.50 - 29.95	29.50	S 59					29.95	-10.15	
15/06/15 1100hrs 15.55m								Borehole completed at 29.95m.	{38.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

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BOREHOLE LOG

WS101

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 22 June 2015 — Easting 560945.0 — Scale 1 : 50

End Date 22 June 2015 — Northing 176278.9 — Ground level 9.10mOD — Depth 6.45 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
22/06/15 1050hrs	1B	0.20	0.40					Brown slightly gravelly silty fine to coarse SAND with frequent roots (up to 5mm diam) and rootlets (up to 2mm diam). Gravel is angular to subrounded fine to coarse flint and sandstone. (MADE GROUND)	0.50	8.60	
	2D*	0.20	0.40		Vo 0.0						
	3B	0.50	0.70								
	4D*	0.50	0.70		Vo 0.0						
	5B	1.00	1.20					Brown and dark brown very silty very gravelly fine to coarse SAND with rare rootlets (up to 2mm diam) and rare subangular fine to coarse flint gravel. (MADE GROUND)	1.20	7.90	
	6D*	1.00	1.20		Vo 0.0						
	7D	1.20	1.65	Nil	S 16						
	8X	1.20	2.00					Medium dense locally poorly cemented greyish brown mottled orangish brown sandy SILT with rare rootlets (up to 2mm diam) and rare angular to subrounded fine to coarse flint and sandstone gravel. Material Cement Kiln Dust (CKD). (MADE GROUND)	1.95	7.15	
	9D*	1.50	1.60		Vo 0.0			1.50 - 1.60m: Rare black specks.			
	10D	1.60	1.70								
	11U	2.00	2.45	2.00				Loose locally poorly cemented greyish brown mottled orangish brown silty fine and medium SAND. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	12X	2.00	3.00					2.55 - 2.60m: White stained.			
	13D*	2.20	2.30		Vo 0.0			2.80m: Angular coarse sandstone gravel.			
	14D	2.30	2.40								
	15D*	2.70	2.80		Vo 0.0			3.20 - 4.00m: Slightly gravelly.			
	16D	2.80	2.90								
	17D	3.00	3.45	3.00	S 4						
	18X	3.00	4.00								
	19D*	3.20	3.30		Vo 0.5						
	20D	3.30	3.40								
	21D*	3.70	3.80		Vo 1.4			4.45 - 4.90m: Medium dense.			
	22D	3.80	3.90								
	23U	4.00	4.45	4.00							
	25X	4.00	5.00								
	24D	4.45	4.90	4.00	S 15						
	26D*	4.90	5.00		Vo 5.6						
	27X	5.00	6.00						5.30	3.80	
	28D*	5.60	5.70		Vo 4.5			Well cemented thinly laminated greyish brown silty fine and medium SAND. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	29D	5.70	5.80								
22/06/15 1545hrs 5.74m	30U	6.00	6.45	6.00				6.00 - 6.45m: CKD into alluvium (Drillers Description).	6.20	2.90	
								Dark brown slightly sandy organic SILT (laboratory description).	6.45	2.65	
								Borehole completed at 6.45m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (113mm) 1.20-4.00m and (84mm) 4.00-6.00m.

CASING: 128mm diam to 6.00m.

BACKFILL: On completion, borehole backfilled with bentonite 6.45-6.00m. A slotted standpipe (50mm) with geosock was installed to 6.00m, granular response zone 6.00-1.30m, bentonite seal 1.30-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-6.45m. No anomalies encountered.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
4.10	4.00	4.05	20	Water strike following U70 4.00-4.45m.

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BOREHOLE LOG

WS102

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 22 June 2015 — Easting 560674.2 — Scale 1 : 50

End Date 23 June 2015 — Northing 176217.1 — Ground level 8.45mOD — Depth 5.22 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
22/06/15 1615hrs	1B	0.20	0.40					Brown with white and black specks slightly gravelly fine to coarse SAND with frequent roots (up to 3mm diam) and rootlets (up to 1mm diam). Gravel is angular to subrounded fine to coarse flint, sandstone and chalk. (MADE GROUND)	0.50	7.95	
	2D*	0.20	0.40		Vo 0.0						
	3B	0.50	0.70								
	4D*	0.50	0.70		Vo 0.0						
	5B	1.00	1.20								
	6D*	1.00	1.20		Vo 0.0						
	7D	1.20	1.65	Nil	S 15			Locally poorly cemented brown slightly gravelly fine to coarse SAND with rare rootlets (up to 1mm diam). Gravel is subangular and subrounded fine to coarse sandstone and rare chalk. Material Cement Kiln Dust (CKD). (MADE GROUND)	1.20	7.25	
	8X	1.20	2.00						1.40	7.05	
	9D*	1.35	1.45		Vo 0.0						
	10D*	1.70	1.80		Vo 0.0			Locally poorly cemented grey mottled greyish brown with rare medium gravel sized black pockets slightly gravelly silty fine SAND. Gravel is angular to subrounded fine and medium sandstone. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	11D	1.80	1.90								
	12U	2.00	2.45	2.00							
	13X	2.00	3.00								
	14D*	2.20	2.30		Vo 0.0						
	15D	2.30	2.40								
22/06/15 1800hrs Dry	16D*	2.70	2.80		Vo 0.0			Locally poorly cemented greyish brown slightly gravelly sandy SILT. Gravel is subangular and subrounded fine and medium sandstone. Material Cement Kiln Dust (CKD). (MADE GROUND) 1.70 - 2.00m: Mottled grey. 2.65 - 2.85m: Gravelly. 3.00 - 3.15m: Gravelly. 3.10 - 3.40m: Mottled grey.			
	17D	2.80	2.90								
	18D	3.00	3.45	3.00	S 8						
23/06/15 0800hrs Dry	19X	3.00	4.00								
	20D*	3.20	3.30		Vo 0.0				3.40	5.05	
	21D	3.30	3.40								
	22D*	3.70	3.80		Vo 0.0						
	23D	3.80	3.90								
	24U	4.00	4.45	4.00				Locally poorly cemented greyish brown silty fine SAND. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	25X	4.00	5.00								
	26D*	4.20	4.30		Vo 0.0						
	27D	4.30	4.40						4.70	3.75	
	28D*	4.70	4.80		Vo 0.0			Well cemented greyish brown with rare fine and medium gravel sized black pockets silty fine SAND. Material Cement Kiln Dust (CKD). (MADE GROUND)			
23/06/15 0915hrs 4.68m	29D	4.80	4.90								
	30D	5.00	5.22	5.00	S*429				5.22	3.23	
								Borehole completed at 5.22m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (113mm) 1.20-5.00m.

CASING: 128mm diam to 5.00m.

BACKFILL: On completion, a slotted standpipe (50mm) with geosock was installed to 5.00m, granular response zone 5.22-1.30m, bentonite seal 1.30-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-5.22m. Hole terminated at 5.22m due to refusal of sampler barrel.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
3.90	4.00	3.99	20	Water strike following run 3.00-4.00m.

AGS

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BOREHOLE LOG

WS201

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 25 June 2015 — Easting 560160.2 — Scale 1 : 50

End Date 25 June 2015 — Northing 175710.2 — Ground level 4.10mOD — Depth 0.15 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
25/06/15 1000hrs 25/06/15 1030hrs Dry									Well cemented light grey slightly gravelly fine SAND. Gravel is angular to subangular fine to coarse well cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)	0.15	3.95	
									Borehole completed at 0.15m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.15m.

CASING: None used.

BACKFILL: On completion, hole backfilled with local materials.

REMARKS: Inspection pit terminated at 0.15m due to hard strata and reattempted as WS201A approximately 2.00m to the west.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

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BOREHOLE LOG

WS201A

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 25 June 2015 — Easting 560157.1 — Scale 1 : 50

End Date 25 June 2015 — Northing 175710.3 — Ground level 4.05mOD — Depth 0.10 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
~~25/06/15~~ 1030hrs 25/06/15 1045hrs Dry									Well cemented light grey slightly gravelly fine SAND. Gravel is angular to subangular fine to coarse well cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)	0.10	3.95	
									Borehole completed at 0.10m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.10m.

CASING: None used.

BACKFILL: On completion, hole backfilled with local materials.

REMARKS: Inspection pit terminated at 0.10m due to hard strata and reattempted as WS201B approximately 4.00m to the west.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

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BOREHOLE LOG

WS201B

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 25 June 2015 — Easting 560152.3 — Scale 1 : 50

End Date 25 June 2015 — Northing 175706.9 — Ground level 3.75mOD — Depth 0.10 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
~~25/06/15~~ 1045hrs 25/06/15 1100hrs Dry									Well cemented light grey slightly gravelly fine SAND. Gravel is angular to subangular fine to coarse well cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)	0.10	3.65	
									Borehole completed at 0.10m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.10m.

CASING: None used.

BACKFILL: On completion, hole backfilled with local materials.

REMARKS: Inspection pit terminated at 0.10m due to hard strata and reattempted as WS201C approximately 8.00m to the east.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

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BOREHOLE LOG

WS201C

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 25 June 2015 — Easting 560163.5 — Scale 1 : 50

End Date 25 June 2015 — Northing 175716.3 — Ground level 4.20mOD — Depth 0.10 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
~~25/06/15~~ 1400hrs 25/06/15 1415hrs Dry									Well cemented light grey slightly gravelly fine SAND. Gravel is angular to subangular fine to coarse well cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)	0.10	4.10	
									Borehole completed at 0.10m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.10m.

CASING: None used.

BACKFILL: On completion, hole backfilled with local materials.

REMARKS: Inspection pit terminated at 0.10m due to hard strata and reattempted as WS201D approximately 2.00m to the south.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

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BOREHOLE LOG

WS201D

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 25 June 2015 — Easting 560165.9 — Scale 1 : 50

End Date 25 June 2015 — Northing 175713.1 — Ground level 4.10mOD — Depth 0.10 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
~~25/06/15~~ 1415hrs 25/06/15 1430hrs Dry									Well cemented light grey slightly gravelly fine SAND. Gravel is angular to subangular fine to coarse well cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)	0.10	4.00	
									Borehole completed at 0.10m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.10m.

CASING: None used.

BACKFILL: On completion, hole backfilled with local materials.

REMARKS: Inspection pit terminated at 0.10m due to hard strata and reattempted as WS201E approximately 4.00m to the north.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

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WS201E

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SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 25 June 2015 — Easting 560161.5 — Scale 1 : 50

End Date 25 June 2015 — Northing 175719.7 — Ground level 4.25mOD — Depth 0.10 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
~~25/06/15~~ 1430hrs 25/06/15 1445hrs Dry									Well cemented light grey slightly gravelly fine SAND. Gravel is angular to subangular fine to coarse well cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)	0.10	4.15	
									Borehole completed at 0.10m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.10m.

CASING: None used.

BACKFILL: On completion, hole backfilled with local materials.

REMARKS: Inspection pit terminated at 0.10m due to hard strata and reattempted as WS201F approximately 20.00m to the north.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

CONTRACT	CHECKED
30766	**EC**

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BOREHOLE LOG

WS201F

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 25 June 2015 — Easting 560156.3 — Scale 1 : 50

End Date 25 June 2015 — Northing 175741.8 — Ground level 4.25mOD — Depth 0.10 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
~~25/06/15~~ 1445hrs 25/06/15 1500hrs Dry									Well cemented light grey slightly gravelly fine SAND. Gravel is angular to subangular fine to coarse well cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)	0.10	4.15	
									Borehole completed at 0.10m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.10m.

CASING: None used.

BACKFILL: On completion, hole backfilled with local materials.

REMARKS: Inspection pit terminated at 0.10m due to hard strata and reattempted as WS201G approximately 5.00m to the west.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

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BOREHOLE LOG

WS201G

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 25 June 2015 — Easting 560145.6 — Scale 1 : 50

End Date 25 June 2015 — Northing 175738.9 — Ground level 3.70mOD — Depth 0.10 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
~~25/06/15~~ 1515hrs 25/06/15 1530hrs Dry									Well cemented light grey slightly gravelly fine SAND. Gravel is angular to subangular fine to coarse well cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)	0.10	3.60	
									Borehole completed at 0.10m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.10m.

CASING: None used.

BACKFILL: On completion, hole backfilled with local materials.

REMARKS: Inspection pit terminated at 0.10m due to hard strata.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

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BOREHOLE LOG

WS202

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 2

Start Date 24 June 2015 — Easting 560621.9 — Scale 1 : 50

End Date 25 June 2015 — Northing 175869.8 — Ground level 9.40mOD — Depth 12.00 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
24/06/15 1115hrs	1B	0.20 - 0.40					Stiff dark brown slightly sandy silty CLAY with rare subangular and subrounded fine and medium flint and sandstone gravel. (MADE GROUND)	0.50	8.90	
	2D*	0.20 - 0.40		Vo 0.0						
	3B	0.50 - 0.70					Light grey sandy SILT with rare subrounded fine and coarse CKD gravel. Material Cement Kiln Dust (CKD). (MADE GROUND)	1.20	8.20	
	4D*	0.50 - 0.70		Vo 0.0						
	5B	1.00 - 1.20								
	6D*	1.00 - 1.20		Vo 0.0						
	7D	1.20 - 1.65	Nil	S 24						
	8X	1.20 - 2.00					Medium dense locally poorly cemented greyish brown with black specks gravelly very silty fine SAND. Gravel is subangular and subrounded fine to coarse poorly cemented CKD and rare flint. Material Cement Kiln Dust (CKD). (MADE GROUND)	1.60	7.80	
	9D*	1.65 - 1.75		Vo 0.0						
	10D	1.75 - 1.85								
	11U	2.00 - 2.45	2.00				Plastic black with rare brown specks slightly gravelly amorphous PEAT. Gravel is angular to subrounded fine to coarse coal and poorly cemented CKD. (MADE GROUND) 1.80 - 1.90m: Frequent brown specks.	2.10	7.30	
	12X	2.00 - 3.00								
	13D*	2.25 - 2.35		Vo 0.0						
	14D	2.35 - 2.45								
	15D*	2.70 - 2.80		Vo 0.0						
	16D	2.80 - 2.90								
		3.00 - 3.45	3.00	C 29			Medium dense locally poorly cemented greyish brown with white specks gravelly very silty fine SAND. Gravel is angular to subrounded fine to coarse poorly cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND) 2.35 - 2.50m: Coarse gravel sized pocket of peat. 2.55m: Orange stained. 2.80 - 3.00m: Very gravelly with frequent orange specks. 3.10 - 3.20m: Coarse gravel sized pocket of peat. 3.35m: Cobbles of poorly cemented CKD (60x65x65mm).	4.45	4.95	
	17X	3.00 - 3.40								
	18X	3.40 - 4.00								
	19D*	3.70 - 3.80		Vo 0.0						
	20D	3.80 - 3.90								
	21D	4.00 - 4.45	3.00	S 29						
	22X	4.00 - 5.00								
	23D*	4.70 - 4.90		Vo 0.0			Very dense well cemented greyish brown slightly gravelly fine SAND. Gravel is angular to subrounded fine to coarse poorly cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND) 5.10 - 5.45m: Thinly laminated.			
		5.00 - 5.45	3.00	C 56						
	24X	5.00 - 6.00								
	25D*	5.70 - 5.90		Vo 0.0						
	26D	6.00 - 6.45	3.00	S 16			5.90 - 5.95m: Reddish brown stained. 6.00 - 6.45m: Medium dense.			
	27X	6.00 - 7.00						6.45	2.95	
	28D*	6.70 - 6.90		Vo 0.5			Medium dense locally poorly cemented greyish brown gravelly silty fine SAND. Gravel is subangular and subrounded fine and medium rarely coarse poorly cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	29D	7.00 - 7.45	3.00	S 10						
	30X	7.00 - 8.00								
	31D*	7.50 - 7.80		Vo 1.3			7.50m: Medium gravel sized white staining.			
	32D	8.00 - 8.45	3.00	S 22						
							Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (1113mm) 1.20-3.40m and 9.00-10.00m, (98mm) 3.40-4.00m and 10.00-11.00m, (84mm) 4.00-5.00m, 8.00-9.00m and 11.00-12.00m, (74mm) 5.00-6.00m, (64mm) 6.00-8.00m.

CASING: 113mm diam to 9.00m.

BACKFILL: On completion, borehole backfilled with bentonite 12.00-11.00m. A slotted standpipe (50mm) with geosock was installed to 10.50m, granular response zone 11.00-2.80m, bentonite seal 2.80-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-12.00m. Stratum names provided by the Engineer.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

AGS

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BOREHOLE LOG

WS202

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 2

Start Date 24 June 2015 — Easting 560621.9 — Scale 1 : 50

End Date 25 June 2015 — Northing 175869.8 — Ground level 9.40mOD — Depth 12.00 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
	33X	8.00 - 9.00						8.20	1.20	
							Medium dense locally poorly cemented greyish brown slightly gravelly silty fine SAND. Gravel is subangular and subrounded fine and medium poorly cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND) 8.20 - 8.40m: Thinly laminated. 8.70m: Greenish grey staining.			
24/06/15 1700hrs 9.21m	34D*	8.70 - 8.80		Vo 0.8						
	35D	8.80 - 8.90								
		9.00 - 9.45	3.00	C 74				9.00	0.40	
25/06/15 0810hrs 7.71m	36X	9.00 - 10.00					Very dense well cemented thinly laminated greyish brown slightly gravelly very silty fine SAND. Gravel is subangular and subrounded fine to coarse poorly cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	37D*	9.70 - 9.80		Vo 1.5						
	38D	9.80 - 9.90								
	39D	10.00 - 10.45	9.00	S 27						
	40X	10.00 - 11.00						10.20	-0.80	
							Medium dense locally poorly cemented greyish brown slightly gravelly very silty fine SAND. Gravel is subangular and subrounded fine and coarse poorly cemented CKD. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	41D*	10.70 - 10.80		Vo 0.0						
	42D	10.80 - 10.90								
	43U	11.00 - 11.45	9.00					11.10	-1.70	
	44X	11.00 - 12.00					Firm thinly laminated dark greenish grey CLAY with rare rootlets (up to 1mm diam), rare subrounded fine and medium chalk gravel and rare coarse gravel sized lenses of peat. (ALLUVIUM)			
25/06/15 1400hrs 10.85m	45D*	11.70 - 11.80		Vo 0.0						
	46D	11.80 - 11.90						12.00	-2.60	
							Borehole completed at 12.00m.	{18.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks
9.21	3.00	8.42	20	Encountered following SPT 9.00-9.45m
10.40	9.00			Encountered following run 10.00-11.00m

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BOREHOLE LOG

WS203

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 23 June 2015 — Easting 560435.9 — Scale 1 : 50

End Date 24 June 2015 — Northing 175753.6 — Ground level 2.60mOD — Depth 4.50 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
23/06/15 1600hrs	1B	0.20	0.40					Grass over dark brown mottled dark grey silty subangular and subrounded fine and medium flint, sandstone, red brick and concrete GRAVEL. (MADE GROUND)	0.50	2.10	
	2D*	0.20	0.40		Vo 0.6						
	3B	0.50	0.70					MADE GROUND comprising light grey concrete.	0.85	1.75	
	4D*	0.50	0.70		Vo 0.0						
	5B	1.00	1.20					Locally poorly cemented dark grey SILT. Material Cement Kiln Dust (CKD). (MADE GROUND)	1.20	1.40	
	6D*	1.00	1.20		Vo 0.0						
	7D	1.20	1.65	Nil	S 9			Loose locally poorly cemented greyish brown slightly silty fine SAND. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	8X	1.20	2.00					1.45m: Coarse gravel sized pocket of soft brown clay.			
	9D*	1.65	1.75		Vo 0.0			1.55m: Coarse gravel sized pocket of soft brown clay.			
	10D	1.75	1.85					1.85m: Cobble sized poorly cemented CKD (up to 50x80x90mm).	2.25	0.35	
	11U	2.00	2.45	2.00							
	12X	2.00	3.00								
	13D*	2.25	2.35		Vo 0.3			Medium dense locally poorly cemented greyish brown with rare fine and medium gravel sized black pockets slightly silty slightly gravelly fine SAND. Gravel is subangular and subrounded fine chalk. Material Cement Kiln Dust (CKD). (MADE GROUND)			
23/06/15 1730hrs Dry	14D*	2.75	2.85		Vo 0.5			2.40m: Coarse gravel sized pocket of soft brown clay.			
	15D	3.00	3.45	3.00	S 17						
24/06/15 0800hrs 2.41m	16X	3.00	4.00								
	17D*	3.20	3.30		Vo 0.3						
	18D	3.30	3.40								
	19D*	3.70	3.80		Vo 0.5			3.70 - 4.00m: Gravelly.			
	20D	3.80	3.90								
	21D	4.00	4.45	4.00	S <1				4.10	-1.50	
	22X	4.00	4.50					Plastic black slightly sandy amorphous PEAT.			
24/06/15 0955hrs 3.88m									4.50	-1.90	
								Borehole completed at 4.50m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (113mm) 1.20-2.00m and 3.00-4.50m and (84mm) 2.00-3.00m.

CASING: 128mm diam to 4.50m.

BACKFILL: On completion, borehole backfilled with bentonite 4.50-4.00m. A slotted standpipe (50mm) with geosock was installed to 4.00m, granular response zone 4.00-1.30m, bentonite seal 1.30-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-4.50m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
2.00	2.00	1.71	20	Overnight strike.

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BOREHOLE LOG

WS204

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 2

Start Date 25 June 2015 — Easting 560318.8 — Scale 1 : 50

End Date 25 June 2015 — Northing 175576.6 — Ground level 12.35mOD — Depth 8.90 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
25/06/15 1400hrs	1B	0.20 - 0.30					Grass over soft dark brown clayey SILT. (MADE GROUND)	0.10	12.25	
	2D*	0.20 - 0.30		Vo 1.2						
	3B	0.50 - 0.70					Soft to firm dark brown slighty sandy silty CLAY. (MADE GROUND)	0.50	11.85	
	4D*	0.50 - 0.70		Vo 0.8						
	5B	1.00 - 1.20					Poorly cemented light grey slightly sandy SILT. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	6D*	1.00 - 1.20		Vo 0.8						
	7D	1.20 - 1.65	Nil	S 15				1.20	11.15	
	8X	1.20 - 2.00					Medium dense locally poorly cemented greyish brown with rare white specks very silty fine SAND. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	9D*	1.45 - 1.55		Vo 0.0						
	10D	1.55 - 1.65					1.55 - 1.75m: Rare fine to coarse gravel sized black pockets.			
	11D*	1.90 - 2.00		Vo 0.0				2.00	10.35	
	U	2.00 - 2.45	2.00				Medium dense well cemented brown with rare grey specks very silty fine SAND. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	12X	2.00 - 3.00								
	13D*	2.45 - 2.55		Vo 0.0						
	14D	2.55 - 2.65								
	15D*	2.90 - 3.00		Vo 0.0			2.65 - 3.00m: Brownish grey mottled light grey.			
	16D	3.00 - 3.45	2.00	S 23			2.80m: Coarse gravel sized black staining.			
	17X	3.00 - 4.00								
	18D*	3.45 - 3.55		Vo 0.0						
	19D	3.55 - 3.65					3.50 - 3.70m: Greyish brown sandy silt.			
	20D*	3.90 - 4.00		Vo 0.0						
	21D	4.00 - 4.45	2.00	S 13						
	22X	4.00 - 5.00								
	23D*	4.45 - 4.55		Vo 0.0						
	24D	4.55 - 4.65								
	25D*	4.90 - 5.00		Vo 0.0						
	26U	5.00 - 5.45	2.00					5.25	7.10	
	27X	5.00 - 6.00					Medium dense well cemented greyish brown with rare white and grey specks sandy SILT. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	28D*	5.45 - 5.75		Vo 0.0						
	29D	6.00 - 6.45	2.00	S 16						
	30X	6.00 - 7.00								
	31D*	6.45 - 6.75		Vo 0.0						
		7.00 - 7.45	2.00	C 20				6.90	5.45	
	32X	7.00 - 8.00					Medium dense well cemented locally thinly laminated greyish brown with rare black and light grey specks slightly sandy SILT. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	33D*	7.45 - 7.55		Vo 0.0						
	34D	7.55 - 7.65								
	35D*	7.90 - 8.00		Vo 0.0						
							Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (113mm) 1.20-3.00m, (98mm) 3.00-4.00m and 7.00-8.00, (84mm) 4.00-5.00m and 8.00-8.90, (74mm) 5.00-6.00m, (64mm) 6.00-7.00m.

CASING: 128mm diam to 2.00m.

BACKFILL: On completion, a slotted standpipe (50mm) with geosock was installed to 8.90m, granular response zone 8.90-1.50m, bentonite seal 1.50-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-8.90m. Hole terminated at 8.90m due to refusal of sampler barrel.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered.

AGS

CONTRACT	CHECKED
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BOREHOLE LOG

WS204

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 2 of 2

Start Date 25 June 2015 — Easting 560318.8 — Scale 1 : 50

End Date 25 June 2015 — Northing 175576.6 — Ground level 12.35mOD — Depth 8.90 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	instru -ment	description	depth (m)	reduced level (m)	legend
		8.00 - 8.45	2.00	S 27						
	36X	8.00 - 8.90					8.25 - 8.40m: Light grey.			
25/06/15 1830hrs Dry	37D*	8.55 - 8.65		Vo 0.0						
	38D	8.70 - 8.80								
		8.90 - 9.07	2.00	C*333			8.80 - 8.90m: Slightly gravelly. Gravel is angular to subrounded fine to coarse flint.	8.90	3.45	
							Borehole completed at 8.90m.			
								{18.00}		

water strike (m) casing (m) rose to (m) time to rise (m) remarks

Groundwater not encountered.

AGS

CONTRACT 30766

CHECKED EC

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Geotechnical Engineering Limited

BOREHOLE LOG

WS301

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 23 June 2015 — Easting 559578.2 — Scale 1 : 50

End Date 23 June 2015 — Northing 175188.9 — Ground level 8.20mOD — Depth 1.65 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
23/06/15 1050hrs	1B	0.30	0.50						Brownish grey slightly silty slightly gravelly fine to coarse SAND with rare black fine gravel sized pockets of ash and rare rootlets (up to 1mm diam). Gravel is angular to subrounded fine to coarse flint, chalk and rare sandstone. (MADE GROUND)			
	2D*	0.30	0.50		Vo 0.0				0.30 - 0.50m: Rare coarse gravel sized glass fragments.			
	3B	0.50	0.70						0.50 - 1.20m: Rare fragments of organic material. Gravel is flint, chalk, poorly cemented silt (Cemented Kiln Dust) and rare sandstone.			
	4D*	0.50	0.70		Vo 0.0				0.80 - 1.00m: Angular to subrounded flint cobbles.			
	5B	1.00	1.20									
	6D*	1.00	1.20		Vo 0.0							
	7D	1.20	1.65	Nil	S 45					1.20	7.00	
23/06/15 1250hrs Dry	8X	1.20	1.65									
		1.65	1.87	Nil	C*195				Well cemented light grey with with rare black specks, rare medium gravel sized black pockets and rare orange staining sandy SILT with rare rootlets (up to 1mm diam) and rare angular fine to coarse flint gravel. Material Cement Kiln Dust (CKD). (MADE GROUND)	1.65	6.55	
									Borehole completed at 1.65m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (84mm) 1.20-1.65m.

CASING: None used.

BACKFILL: On completion, hole backfilled with bentonite 1.65-0.90m and arisings 0.90-0.00m.

REMARKS: Downhole magnetometry for UXO risk mitigation undertaken 0.00-1.65m. Borehole terminated at 1.65m due to hard strata and reattempted as WS301A approximately 1.50m southwest.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered.

AGS

CONTRACT	CHECKED
30766	**EC**

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Geotechnical Engineering Limited

BOREHOLE LOG

WS301A

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 23 June 2015 — Easting 559580.0 — Scale 1 : 50

End Date 23 June 2015 — Northing 175191.5 — Ground level 8.40mOD — Depth 0.36 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
23/06/15 1255hrs ~~23/06/15~~ 1400hrs Dry									Brownish grey slightly silty slightly gravelly fine to coarse SAND with rare black fine gravel sized pockets of ash and rare rootlets (up to 1mm diam). Gravel is angular to subrounded fine to coarse flint, chalk and rare sandstone. (MADE GROUND)	0.36	8.04	
									Borehole completed at 0.36m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.36m.

CASING: None used.

BACKFILL: On completion, hole backfilled with arisings.

REMARKS: Inspection pit terminated at 0.36m due to hard strata and reattempted as WS301B approximately 1.50m to the north.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered.

AGS

CONTRACT	CHECKED
30766	**EC**

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Geotechnical Engineering Limited

BOREHOLE LOG

WS301B

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 23 June 2015 — Easting 559582.5 — Scale 1 : 50

End Date 23 June 2015 — Northing 175188.6 — Ground level 8.20mOD — Depth 0.31 m

progress date/time water depth	sample no & type	depth (m) from	depth (m) to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
23/06/15 1400hrs									Brownish grey slightly silty slightly gravelly fine to coarse SAND with rare black fine gravel sized pockets of ash and rare rootlets (up to 1mm diam). Gravel is angular to subrounded fine to coarse flint, chalk and rare sandstone. (MADE GROUND)	0.31	7.89	
23/06/15 1430hrs Dry									Borehole completed at 0.31m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit 0.00-0.31m.

CASING: None used.

BACKFILL: On completion, hole backfilled with arisings.

REMARKS: Inspection pit terminated at 0.31m due to hard strata and reattempted as WS301C approximately 1.50m to the southeast.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks
				Groundwater not encountered.

AGS

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

BOREHOLE LOG

WS301C

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT Sheet 1 of 1

Start Date 23 June 2015 Easting 559584.0 Scale 1 : 50

End Date 23 June 2015 Northing 175191.0 Ground level 8.35mOD Depth 0.33 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range		instru -ment	description	depth (m)	reduced level (m)	legend
23/06/15 1430hrs 23/06/15 1515hrs Dry								Brownish grey slightly silty slightly gravelly fine to coarse SAND with rare black fine gravel sized pockets of ash and rare rootlets (up to 1mm diam). Gravel is angular to subrounded fine to coarse flint, chalk and rare sandstone. (MADE GROUND)	0.33	8.02	
								Borehole completed at 0.33m.	{8.00}		

EQUIPMENT: Geotechnical Terrier 2000 rig.

METHOD: Hand dug inspection pit only 0.00-0.0.33m.

CASING: None used.

BACKFILL: On completion, hole backfilled with arisings.

REMARKS: Inspection pit terminated at 0.33m due to hard strata.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m) casing (m) rose to (m) time to rise (min) remarks

Groundwater not encountered.

AGS

CONTRACT	CHECKED
30766	**EC**

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Geotechnical Engineering Limited

STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
BH101	1.20	1.65	Nil	0.80	1 0	75 75	1 2 2 2	75 75 75 75	C	7	81
BH101	3.20	3.65	3.00	0.80	1 1	75 75	1 0 0 1	75 75 75 75	C	2	81
BH101	4.20	4.65	4.20	3.10	1 0	75 75	0 0 0 0	75 75 75 75	C	<1	81
BH101	6.20	6.65	6.00	Dry	1 0	75 75	1 0 1 0	75 75 75 75	S	2	81
BH101	8.20	8.65	8.00	Dry	1 0	75 75	0 1 0 0	75 75 75 75	S	1	81
BH101	10.50	10.95	10.50	Dry	1 0	75 75	0 1 0 0	75 75 75 75	S	1	81
BH101	13.50	13.95	13.00	Dry	1 0	75 75	1 0 1 4	75 75 75 75	S	6	81
BH101	16.50	16.95	16.50	9.60	1 1	75 75	2 2 2 1	75 75 75 75	C	7	81
BH101	18.00	18.45	18.00	3.10	1 3	75 75	4 6 10 15	75 75 75 75	C	35	81
BH101	19.50	19.95	19.50	3.30	4 5	75 75	8 9 13 10	75 75 75 75	C	40	81
BH101	21.00	21.45	21.00	5.80	1 1	75 75	2 1 2 2	75 75 75 75	S	7	81
BH101	22.50	22.95	22.50	5.00	1 0	75 75	1 1 2 1	75 75 75 75	S	5	81
BH101	24.00	24.45	22.50	2.98	3 5	75 75	5 6 7 8	75 75 75 75	S	26	68
BH101	25.50	25.95	23.30	9.80	3 6	75 75	6 9 17 21	75 75 75 75	S	53	68
BH101	28.50	28.95	28.50	9.85	9 9	75 75	10 18 27 29	75 75 75 75	S	84	68
BH101	31.70	31.93	31.70	9.80	18 7	75 20	58 42	75 60	C	222	68
BH101	34.70	34.82	34.70	8.00	25	40	85 15	75 0	C	400	68
BH101	37.70	37.88	37.70	8.50	16 9	75 10	69 31	75 20	C	316	68
BH101	40.70	40.84	40.70	8.20	25	75	100	60	C	500	68
BH101	43.70	43.85	43.70	9.00	25	75	100	75	C	400	68
BH201	1.70	2.02	1.50	Dry	17 8	75 30	40 38 22	75 75 65	C	140	73
BH201	2.70	3.15	2.70	2.00	11 12	75 75	69 16 7 3	75 75 75 75	C	95	73
BH201	3.70	4.11	3.70	2.99	4 3	75 75	8 14 42 36	75 75 75 35	C	115	73
BH201	4.70	5.15	4.70	3.10	5 2	75 75	4 3 1 3	75 75 75 75	C	11	73

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
BH201	5.70	6.15	5.70	3.74	5 4	75 75	3 2 1 1	75 75 75 75	C	7	73
BH201	7.70	8.15	6.70	3.68	1 3	75 75	6 4 5 7	75 75 75 75	S	22	73
BH201	8.70	9.15	8.70	3.76	3 4	75 75	3 2 2 2	75 75 75 75	S	9	73
BH201	9.70	10.15	9.70	3.57	3 5	75 75	3 3 2 1	75 75 75 75	S	9	73
BH202	1.20	1.65	Nil	Dry	1 0	75 75	1 1 1 1	75 75 75 75	S	4	81
BH202	3.20	3.65	3.00	3.20	1 2	75 75	1 1 1 1	75 75 75 75	S	4	81
BH202	5.20	5.65	5.20	4.50	1 0	75 75	0 1 0 0	75 75 75 75	S	1	81
BH202	7.20	7.65	7.00	5.80	1 1	75 75	0 0 1 0	75 75 75 75	S	1	81
BH202	9.20	9.65	9.20	4.40	1 0	75 75	0 1 0 1	75 75 75 75	S	2	81
BH202	11.50	11.95	11.00	10.20	1 0	75 75	1 0 1 0	75 75 75 75	S	2	81
BH202	14.50	14.95	13.50	Dry	2 2	75 75	1 2 1 2	75 75 75 75	S	6	81
BH202	17.50	17.95	13.50	17.00	1 0	75 75	1 1 1 5	75 75 75 75	S	8	81
BH202	19.00	19.45	19.00	19.00	2 2	75 75	2 2 2 2	75 75 75 75	C	8	81
BH202	20.50	20.95	20.50	6.30	2 2	75 75	1 1 1 1	75 75 75 75	S	4	81
BH202	22.50	22.95	22.50	5.42	3 2	75 75	2 2 2 2	75 75 75 75	S	8	73
BH202	24.00	24.45	24.00	0.27	3 3	75 75	3 4 4 4	75 75 75 75	S	15	73
BH202	27.00	27.45	27.00	4.04	1 3	75 75	3 2 3 2	75 75 75 75	S	10	73
BH202	28.50	28.95	28.50	3.71	1 2	75 75	8 8 17 22	75 75 75 75	S	55	73
BH203	1.20	1.65	1.20	Dry	1 3	75 75	3 0 3 2	75 75 75 75	C	8	81
BH203	2.20	2.65	2.20	Dry	1 0	75 75	1 1 2 2	75 75 75 75	C	6	81
BH203	3.20	3.65	3.20	Dry	1 0	75 75	1 1 1 2	75 75 75 75	S	5	81
BH203	5.20	5.65	5.20	Dry	1 3	75 75	4 4 8 9	75 75 75 75	S	25	81
BH203	6.20	6.65	6.00	Dry	1 4	75 75	5 6 9 9	75 75 75 75	S	29	81
BH203	7.20	7.65	7.20	Dry	3 6	75 75	7 8 8 9	75 75 75 75	S	32	81

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
BH203	8.20	8.65	8.20	8.00	7 7	75 75	7 9 9 8	75 75 75 75	C	33	81
BH203	9.20	9.65	9.00	8.10	1 2	75 75	3 4 6 6	75 75 75 75	C	19	81
BH203	10.20	10.65	10.00	9.40	2 2	75 75	3 3 4 5	75 75 75 75	C	15	81
BH203	12.00	12.45	12.00	9.30	1 0	75 75	1 1 1 1	75 75 75 75	C	4	81
BH203	13.50	13.95	13.50	4.10	1 1	75 75	1 1 1 2	75 75 75 75	S	5	81
BH203	15.50	15.95	15.50	2.96	3 1	75 75	2 4 4 2	75 75 75 75	S	12	73
BH203	17.00	17.45	16.00	2.68	2 2	75 75	4 4 3 4	75 75 75 75	S	15	73
BH203	18.50	18.95	18.50	2.82	1 3	75 75	3 2 3 4	75 75 75 75	S	12	73
BH203	20.00	20.45	18.50	2.80	4 5	75 75	4 5 4 5	75 75 75 75	S	18	73
BH203	21.50	21.84	21.50	2.70	8 15	75 75	30 37 33	75 75 40	S	158	73
BH203	22.70	23.15	22.70	2.34	4 7	75 75	7 6 8 12	75 75 75 75	S	33	73
BH203	25.70	26.06	22.70	3.42	7 15	75 75	28 44 28	75 75 55	S	146	73
BH203	28.70	29.15	22.70	2.86	7 10	75 75	7 9 7 9	75 75 75 75	S	32	73
BH203	31.60	32.05	22.70	2.73	7 12	75 75	13 18 18 15	75 75 75 75	S	64	73
BH203	34.60	35.05	22.70	2.74	4 5	75 75	7 9 12 14	75 75 75 75	S	42	73
BH203	37.20	37.62	22.70	2.74	6 8	75 75	12 21 40 27	75 75 75 45	S	111	73
BH203	40.20	40.65	22.70	2.76	7 10	75 75	19 27 27 27	75 75 75 75	S	100	73
BH204	1.20	1.65	1.00	Dry	1 6	75 75	8 11 13 16	75 75 75 75	C	48	81
BH204	2.20	2.65	2.00	Dry	1 1	75 75	2 2 1 2	75 75 75 75	C	7	81
BH204	3.20	3.65	3.20	Dry	1 0	75 75	1 2 2 2	75 75 75 75	C	7	81
BH204	4.20	4.65	4.00	Dry	0 1	75 75	1 1 1 2	75 75 75 75	S	5	81
BH204	6.20	6.65	6.20	Dry	0 1	75 75	1 1 1 1	75 75 75 75	S	4	81
BH204	7.20	7.65	7.20	6.80	2 2	75 75	4 4 4 8	75 75 75 75	C	20	81
BH204	8.20	8.65	8.20	6.80	4 6	75 75	6 4 4 3	75 75 75 75	C	17	81

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
BH204	9.20	9.65	9.00	Dry	1 0	75 75	1 1 1 2	75 75 75 75	C	5	81
BH204	11.50	11.95	11.50	8.80	1 2	75 75	2 1 1 1	75 75 75 75	S	5	81
BH204	13.50	13.95	13.50	5.40	1 2	75 75	1 1 2 2	75 75 75 75	S	6	81
BH204	15.00	15.45	15.00	2.90	1 0	75 75	1 0 1 1	75 75 75 75	S	3	73
BH204	16.50	16.95	16.50	3.05	1 1	75 75	2 2 3 5	75 75 75 75	S	12	73
BH204	18.00	18.45	18.00	2.87	3 3	75 75	3 3 4 4	75 75 75 75	S	14	73
BH204	19.50	19.95	18.00	2.87	3 3	75 75	2 1 1 3	75 75 75 75	S	7	73
BH501	1.20	1.65	Nil	Dry	5 1	75 75	2 2 1 2	75 75 75 75	S	7	79
BH501	2.20	2.65	Nil	Dry	1 1	75 75	1 2 3 3	75 75 75 75	S	9	79
BH501	3.20	3.65	Nil	Dry	1 1	75 75	1 2 2 2	75 75 75 75	S	7	79
BH501	4.20	4.65	Nil	Dry	1 2	75 75	3 4 4 4	75 75 75 75	S	15	79
BH501	5.20	5.65	4.20	2.14	3 3	75 75	3 3 3 4	75 75 75 75	S	13	79
BH501	6.20	6.65	6.20	1.59	2 3	75 75	3 3 4 4	75 75 75 75	S	14	79
BH501	7.20	7.65	7.20	1.34	4 5	75 75	6 6 7 7	75 75 75 75	S	26	79
BH501	8.20	8.65	7.20	3.21	3 4	75 75	3 3 3 2	75 75 75 75	S	11	73
BH501	9.20	9.65	7.20	Dry	1 0	75 75	0 0 1 1	75 75 75 75	S	2	73
BH501	10.20	10.65	7.20	Dry	1 0	75 75	0 0 1 0	75 75 75 75	S	1	73
BH501	11.70	12.15	11.70	11.30	2 2	75 75	2 2 1 1	75 75 75 75	S	6	73
BH501	13.00	13.45	13.00	11.78	2 4	75 75	12 11 9 12	75 75 75 75	S	44	73
BH501	14.50	14.95	13.00	11.70	2 3	75 75	5 6 7 8	75 75 75 75	S	26	73
BH501	15.70	16.15	13.00	12.35	13 10	75 75	8 9 10 15	75 75 75 75	S	42	73
BH501	17.00	17.45	15.70	11.57	3 6	75 75	8 8 9 16	75 75 75 75	S	41	73
BH501	20.00	20.45	17.00	11.10	3 3	75 75	7 18 38 18	75 75 75 75	S	81	73
BH502	1.20	1.65	Nil	Dry	2 3	75 75	5 9 12 15	75 75 75 75	S	41	73

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
BH502	2.20	2.65	Nil	Dry	1 2	75 75	2 4 4 5	75 75 75 75	S	15	73
BH502	3.20	3.65	Nil	Dry	1 1	75 75	1 1 1 2	75 75 75 75	S	5	73
BH502	4.20	4.65	Nil	Dry	1 1	75 75	1 2 3 2	75 75 75 75	S	8	73
BH502	5.20	5.65	Nil	Dry	4 8	75 75	7 7 6 5	75 75 75 75	S	25	73
BH502	6.20	6.65	Nil	Dry	2 2	75 75	1 1 2 2	75 75 75 75	S	6	73
BH502	7.20	7.65	Nil	Damp	1 0	75 75	1 2 2 2	75 75 75 75	S	7	73
BH502	8.20	8.65	Nil	Dry	2 2	75 75	1 2 2 2	75 75 75 75	S	7	73
BH502	9.20	9.65	Nil	Dry	1 0	75 75	1 0 0 0	75 75 75 75	S	1	73
BH502	10.20	10.65	10.20	9.34	17 8	75 75	3 2 2 2	75 75 75 75	S	9	73
BH502	11.70	12.15	11.70	Dry	3 4	75 75	6 7 7 8	75 75 75 75	S	28	73
BH502	13.20	13.65	13.20	11.95	5 6	75 75	8 8 6 8	75 75 75 75	S	30	73
BH502	14.50	14.95	13.20	11.78	5 18	75 75	13 12 19 18	75 75 75 75	S	62	73
BH502	17.00	17.45	17.00	11.96	5 8	75 75	9 9 10 12	75 75 75 75	S	40	73
BH502	20.00	20.45	17.00	12.00	3 5	75 75	8 9 13 19	75 75 75 75	S	49	73
BH703	1.20	1.65	Nil	Dry	2 1	75 75	2 2 2 2	75 75 75 75	S	8	79
BH703	2.20	2.65	Nil	Dry	2 1	75 75	2 2 1 2	75 75 75 75	S	7	79
BH703	3.20	3.65	Nil	Dry	2 2	75 75	3 3 3 3	75 75 75 75	S	12	79
BH703	4.20	4.65	Nil	Dry	1 1	75 75	1 2 2 2	75 75 75 75	S	7	79
BH703	5.20	5.65	Nil	Dry	2 2	75 75	3 3 5 5	75 75 75 75	S	16	79
BH703	6.20	6.65	6.20	1.84	5 9	75 75	9 10 10 9	75 75 75 75	S	38	79
BH703	7.20	7.65	7.20	2.14	4 4	75 75	17 11 6 8	75 75 75 75	S	42	79
BH703	8.20	8.65	8.20	4.17	3 4	75 75	3 3 3 2	75 75 75 75	S	11	79
BH703	9.20	9.65	9.20	4.46	1 1	75 75	1 1 1 1	75 75 75 75	S	4	79
BH703	10.20	10.65	10.20	4.37	2 1	75 75	2 2 2 2	75 75 75 75	S	8	79

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

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Geotechnical Engineering Limited

STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
BH704	1.20	1.65	Nil	Dry	1 1	75 75	1 1 1 1	75 75 75 75	S	4	79
BH704	2.20	2.65	Nil	Dry	1 1	75 75	1 1 0 1	75 75 75 75	S	3	79
BH704	4.20	4.65	Nil	4.10	1 1	75 75	1 1 1 2	75 75 75 75	S	5	79
BH704	5.20	5.65	5.20	4.10	2 2	75 75	1 1 1 1	75 75 75 75	S	4	79
BH704	6.20	6.65	6.15	3.31	2 3	75 75	4 2 2 2	75 75 75 75	S	10	79
BH704	7.20	7.65	7.20	4.11	2 2	75 75	2 2 2 2	75 75 75 75	S	8	79
BH704	8.20	8.65	8.20	4.20	1 2	75 75	3 3 4 4	75 75 75 75	S	14	79
BH704	9.20	9.65	9.20	3.61	4 4	75 75	4 3 3 4	75 75 75 75	S	14	79
BH704	10.20	10.65	10.20	3.30	2 2	75 75	2 2 2 2	75 75 75 75	S	8	79
BH704	11.70	12.15	10.20	3.37	1 0	75 75	1 1 2 2	75 75 75 75	S	6	79
BH704	13.20	13.65	13.20	2.61	3 3	75 75	3 5 5 5	75 75 75 75	S	18	79
BH704	14.70	15.15	14.70	1.47	3 3	75 75	5 5 6 8	75 75 75 75	S	24	79
BH704	16.20	16.65	16.20	3.38	2 3	75 75	3 5 5 5	75 75 75 75	S	18	79
BH704	17.70	18.15	17.70	5.14	4 5	75 75	7 7 6 7	75 75 75 75	S	27	79
BH704	19.20	19.65	19.20	4.34	1 2	75 75	4 6 7 7	75 75 75 75	S	24	79
BH704	20.20	20.65	19.20	4.28	2 5	75 75	5 6 5 5	75 75 75 75	S	21	79
BH705	1.20	1.65	Nil	Dry	4 6	75 75	8 6 5 4	75 75 75 75	S	23	79
BH705	2.20	2.65	Nil	Dry	5 5	75 75	5 4 4 3	75 75 75 75	S	16	79
BH705	3.20	3.65	Nil	Dry	3 3	75 75	4 4 3 3	75 75 75 75	S	14	79
BH705	5.20	5.65	4.20	1.04	1 1	75 75	0 1 1 2	75 75 75 75	S	4	79
BH705	6.20	6.65	6.20	1.09	1 0	75 75	1 1 1 1	75 75 75 75	S	4	79
BH705	7.20	7.65	7.20	1.06	1 1	75 75	1 1 1 2	75 75 75 75	S	5	79
BH705	8.20	8.65	8.20	1.34	1 1	75 75	2 2 1 2	75 75 75 75	S	7	79
BH705	9.20	9.65	9.20	1.24	3 2	75 75	3 3 3 3	75 75 75 75	S	12	79

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

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STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
BH705	10.20	10.65	10.20	1.54	3 3	75 75	2 3 3 2	75 75 75 75	S	10	79
BH705	11.70	12.15	11.70	1.45	4 4	75 75	4 3 3 4	75 75 75 75	S	14	79
BH705	13.20	13.65	13.20	1.59	2 2	75 75	3 3 3 3	75 75 75 75	S	12	79
BH705	14.70	15.15	14.70	1.61	4 4	75 75	5 4 4 4	75 75 75 75	S	17	79
BH705	16.20	16.65	16.20	1.74	7 7	75 75	7 5 6 5	75 75 75 75	S	23	79
BH705	17.70	18.15	17.70	2.17	6 6	75 75	7 7 6 7	75 75 75 75	S	27	79
BH705	18.30	18.68	17.70	2.14	25	75	10 10 10 9	75 75 75 75	C	39	79
BH705	19.80	20.25	19.80	2.20	4 4	75 75	4 4 7 6	75 75 75 75	S	21	79
BH706	1.20	1.65	Nil	Dry	2 2	75 75	2 2 2 3	75 75 75 75	S	9	79
BH706	2.20	2.65	Nil	Dry	2 3	75 75	3 3 3 3	75 75 75 75	S	12	79
BH706	3.20	3.65	Nil	Dry	3 3	75 75	3 3 4 5	75 75 75 75	S	15	79
BH706	4.20	4.65	Nil	Dry	3 3	75 75	4 4 5 4	75 75 75 75	S	17	79
BH706	5.20	5.65	Nil	Dry	7 9	75 75	9 9 9 8	75 75 75 75	S	35	79
BH706	6.20	6.65	6.20	1.59	2 2	75 75	6 8 6 7	75 75 75 75	S	27	79
BH706	7.20	7.65	7.20	4.16	4 6	75 75	7 6 7 7	75 75 75 75	S	27	79
BH706	8.20	8.65	8.20	4.57	1 1	75 75	0 1 1 0	75 75 75 75	S	2	79
BH706	9.20	9.65	9.20	4.36	2 1	75 75	2 2 3 2	75 75 75 75	S	9	79
BH706	10.20	10.65	10.20	4.71	2 4	75 75	3 3 4 3	75 75 75 75	S	13	79
BH706	11.70	12.15	11.70	4.87	2 2	75 75	4 2 2 3	75 75 75 75	S	11	79
BH706	13.20	13.65	13.20	5.24	2 2	75 75	1 2 3 2	75 75 75 75	S	8	79
BH706	14.70	15.15	14.70	6.44	2 2	75 75	3 4 4 4	75 75 75 75	S	15	79
BH706	16.20	16.65	16.20	6.18	1 1	75 75	2 1 5 4	75 75 75 75	S	12	79
BH706	17.70	18.15	17.70	6.53	3 4	75 75	5 4 4 4	75 75 75 75	S	17	79
BH706	19.20	19.65	19.20	6.41	4 4	75 75	5 5 5 6	75 75 75 75	S	21	79

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

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STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
BH706	20.70	21.15	20.70	6.74	2 3	75 75	5 7 8 10	75 75 75 75	S	30	79
BH706	22.20	22.65	22.20	6.61	8 9	75 75	10 13 16 21	75 75 75 75	S	60	79
BH706	24.00	24.45	24.00	7.45	4 5	75 75	8 10 14 13	75 75 75 75	S	45	79
BH706	25.50	25.95	25.45	7.36	6 7	75 75	8 11 14 14	75 75 75 75	S	47	79
BH706	28.30	28.75	26.60	6.21	6 5	75 75	6 7 6 6	75 75 75 75	S	25	79
BH706	29.80	30.25	26.60	6.24	6 6	75 75	7 7 6 7	75 75 75 75	S	27	79
BH707	1.20	1.65	Nil	Dry	2 4	75 75	3 2 3 2	75 75 75 75	S	10	79
BH707	2.20	2.65	Nil	Dry	1 1	75 75	1 1 1 1	75 75 75 75	S	4	79
BH707	3.20	3.65	Nil	Dry	1 1	75 75	1 1 1 1	75 75 75 75	S	4	79
BH707	4.20	4.65	Nil	Dry	1 1	75 75	4 8 7 5	75 75 75 75	S	24	79
BH707	5.20	5.65	Nil	Dry	2 2	75 75	2 2 2 2	75 75 75 75	S	8	79
BH707	6.20	6.65	6.20	1.14	2 2	75 75	2 2 2 4	75 75 75 75	S	10	79
BH707	7.20	7.65	7.20	1.59	2 2	75 75	3 4 4 6	75 75 75 75	S	17	79
BH707	8.20	8.65	8.20	2.41	6 8	75 75	8 10 10 13	75 75 75 75	S	41	79
BH707	9.20	9.65	9.20	1.41	10 11	75 75	11 12 12 12	75 75 75 75	S	47	79
BH707	10.20	10.65	10.20	4.58	6 6	75 75	10 6 5 4	75 75 75 75	S	25	79
BH707	11.70	12.15	11.70	5.69	1 0	75 75	1 1 0 1	75 75 75 75	S	3	79
BH707	14.70	15.15	14.70	5.60	1 1	75 75	1 2 3 5	75 75 75 75	S	11	79
BH707	17.70	18.15	17.70	9.63	4 5	75 75	5 6 5 5	75 75 75 75	S	21	79
BH707	19.20	19.65	19.20	8.58	2 2	75 75	4 5 5 5	75 75 75 75	S	19	79
BH708	1.20	1.65	Nil	Dry	1 2	75 75	2 2 2 2	75 75 75 75	S	8	73
BH708	2.20	2.65	Nil	Dry	1 1	75 75	2 2 1 1	75 75 75 75	S	6	73
BH708	3.20	3.65	Nil	2.72	1 2	75 75	2 2 4 5	75 75 75 75	S	13	73
BH708	4.20	4.65	Nil	3.23	1 3	75 75	4 5 5 7	75 75 75 75	S	21	73

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

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STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
BH708	6.20	6.65	Nil	4.21	2 2	75 75	4 3 4 5	75 75 75 75	S	16	73
BH708	7.20	7.65	Nil	5.04	1 1	75 75	2 2 2 3	75 75 75 75	S	9	73
BH708	8.20	8.65	7.20	3.30	1 1	75 75	1 2 2 2	75 75 75 75	S	7	73
BH708	10.20	10.65	9.20	5.36	5 9	75 75	13 12 14 15	75 75 75 75	S	54	73
BH708	11.50	11.95	11.50	1.06	7 5	75 75	4 2 3 4	75 75 75 75	S	13	73
BH708	12.80	13.23	11.50	6.08	18 7	75 50	10 6 4 4	75 75 75 75	S	24	73
BH708	14.30	14.75	11.50	9.96	2 2	75 75	1 1 2 2	75 75 75 75	S	6	73
BH708	15.80	16.25	11.50	12.74	1 1	75 75	1 2 2 2	75 75 75 75	S	7	73
BH708	17.30	17.75	11.50	15.58	2 3	75 75	3 2 4 4	75 75 75 75	S	13	73
BH708	18.80	19.25	11.50	15.55	4 4	75 75	5 7 8 9	75 75 75 75	S	29	73
BH708	20.30	20.75	11.50	15.55	7 7	75 75	8 6 7 7	75 75 75 75	S	28	73
BH708	21.50	21.95	20.20	15.50	5 13	75 75	9 14 12 9	75 75 75 75	S	44	73
BH708	22.80	23.25	20.20	15.50	6 5	75 75	5 7 9 10	75 75 75 75	S	31	73
BH708	24.30	24.75	22.80	15.55	5 8	75 75	8 7 9 9	75 75 75 75	S	33	73
BH708	26.50	26.95	24.95	14.98	2 6	75 75	8 9 10 10	75 75 75 75	S	37	73
BH708	28.00	28.45	24.95	15.55	5 3	75 75	10 16 18 19	75 75 75 75	S	63	73
BH708	29.50	29.95	29.50	15.50	5 9	75 75	12 13 19 15	75 75 75 75	S	59	73
WS101	1.20	1.65	Nil	Dry	2 5	75 75	4 4 4 4	75 75 75 75	S	16	73
WS101	3.00	3.45	3.00	Dry	1 0	75 75	1 1 1 1	75 75 75 75	S	4	73
WS101	4.45	4.90	4.00	4.10	3 3	75 75	3 4 4 4	75 75 75 75	S	15	73
WS102	1.20	1.65	Nil	Dry	2 3	75 75	3 3 3 6	75 75 75 75	S	15	73
WS102	3.00	3.45	3.00	Dry	1 1	75 75	1 1 2 4	75 75 75 75	S	8	73
WS102	5.00	5.22	5.00	4.68	2 4	75 75	100	70	S	429	73
WS202	1.20	1.65	Nil	Dry	4 6	75 75	6 8 5 5	75 75 75 75	S	24	73

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

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Geotechnical Engineering Limited

STANDARD PENETRATION TEST

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	borehole depth (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
WS202	3.00	3.45	3.00	Dry	8 8	75 75	6 6 8 9	75 75 75 75	C	29	73
WS202	4.00	4.45	3.00	Dry	4 6	75 75	6 6 8 9	75 75 75 75	S	29	73
WS202	5.00	5.45	3.00	Dry	10 14	75 75	19 13 12 12	75 75 75 75	C	56	73
WS202	6.00	6.45	3.00	Dry	2 7	75 75	4 4 4 4	75 75 75 75	S	16	73
WS202	7.00	7.45	3.00	Dry	1 2	75 75	2 2 3 3	75 75 75 75	S	10	73
WS202	8.00	8.45	3.00	Dry	6 6	75 75	7 4 5 6	75 75 75 75	S	22	73
WS202	9.00	9.45	3.00	9.21	7 14	75 75	12 18 22 22	75 75 75 75	C	74	73
WS202	10.00	10.45	9.00	Dry	7 8	75 75	8 6 7 6	75 75 75 75	S	27	73
WS203	1.20	1.65	Nil	Dry	1 2	75 75	2 3 2 2	75 75 75 75	S	9	73
WS203	3.00	3.45	3.00	2.41	1 4	75 75	4 4 5 4	75 75 75 75	S	17	73
WS203	4.00	4.45	4.00	3.66	0 0	75 75	0 0 0 0	75 75 75 75	S	< 1	73
WS204	1.20	1.65	Nil	Dry	2 2	75 75	3 2 4 6	75 75 75 75	S	15	73
WS204	3.00	3.45	2.00	Dry	2 5	75 75	4 5 5 9	75 75 75 75	S	23	73
WS204	4.00	4.45	2.00	Dry	2 3	75 75	4 3 3 3	75 75 75 75	S	13	73
WS204	6.00	6.45	2.00	Dry	3 5	75 75	4 5 3 4	75 75 75 75	S	16	73
WS204	7.00	7.45	2.00	Dry	8 9	75 75	7 6 3 4	75 75 75 75	C	20	73
WS204	8.00	8.45	2.00	Dry	2 6	75 75	6 6 7 8	75 75 75 75	S	27	73
WS204	8.90	9.07	2.00	Dry	21 4	75 5	56 44	75 15	C	333	73
WS301	1.20	1.65	Nil	Dry	4 8	75 75	6 9 10 20	75 75 75 75	S	45	73
WS301	1.65	1.87	Nil	Dry	25	70	45 46 9	75 75 4	C	195	73

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, solid cone C.
4. Where full test drive not completed, linearly extrapolated N value reported.
5. <1 Denotes hammer self weight penetration (sank under own weight).
6. ** Denotes no effective penetration.

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Geotechnical Engineering Limited

TRIAL PIT LOG

TP201

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT — Sheet 1 of 1

Start Date 25 June 2015 — Easting 560201.2 — Scale 1 : 25

End Date 25 June 2015 — Northing 175846.8 — Ground level 5.25mOD — Depth 1.90 m

water record	sample/test no/type	sample/test result	sample/test depth (m)	description	depth (m)	level (m)	legend
	1D*	Vo 0.0	0.30	Off-white and light grey silty very sandy subangular fine to coarse poorly cemented silt (Possible Cement Kiln Dust), chalk, flint and concrete GRAVEL. (MADE GROUND)			
	2B		0.50		0.35	4.90	
	3D		0.50	Poorly cemented light brown mottled white sandy SILT. Material Cement Kiln Dust (CKD). (MADE GROUND)			
	4D*	Vo 0.0	0.50		0.70	4.55	
	5D		1.00	Reddish brown mottled light grey, yellowish brown, black and white very sandy angular and subangular fine to coarse brick, concrete, sandstone and clinker GRAVEL with a high brick cobble content. Rare angular and subangular fine to coarse gravel sized ceramic, glass and metal fragments. Rare fragments of grey plastic ducting (up to 2x50x160mm). (MADE GROUND)			
	6D*	Vo 0.1	1.00				
	7B		1.00		1.20	4.05	
	8B		1.50	Reddish brown, yellowish brown and grey COBBLES and BOULDERS of brick and brick masonry with much angular and subangular fine to coarse brick gravel. Frequent wood fragments (up to 5x10x120mm). (MADE GROUND)			
	9D		1.50				
	10D*	Vo 0.0	1.50		1.60	3.65	
	11B		1.80	Strongly cemented grey mottled off white rough CONCRETE with rare angular and subangular fine and medium flint, sandstone and concrete gravel. (MADE GROUND)			
	12D		1.80		1.90	3.35	
Dry.	13D*	Vo 0.3	1.80	Trial pit completed at 1.90m.			

Notes

Trial pit excavated by JCB 3CX mechanical excavator.
Groundwater not encountered.
Trial pit sides remained stable and vertical.
Trial pit terminated at 1.90m due to concrete obstruction. 30 mins attempted to excavate through with 300mm penetration.
Trial pit dimensions 0.60x3.20x1.90m.
On completion, the trial pit was backfilled with materials arising.
Ground protection measures employed comprising plastic sheeting and wooden boards. On completion of trial pit plastic sheeting and wooden boards washed down.

Sketch of Foundation - Not to scale. All dimensions in metres.

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

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Geotechnical Engineering Limited

TRIAL PIT LOG

TP301

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD					Sheet	1 of 1
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT					Scale	1 : 25
Start Date	24 June 2015	Easting	559666.2				
End Date	24 June 2015	Northing	175158.2	Ground level	7.55mOD	Depth	2.40 m

water record	sample/test no/type	result	depth (m)	description	depth (m)	level (m)	legend
	1D*	Vo 0.4	0.30	Poorly cemented light grey locally dark grey and reddish brown sandy very gravelly SILT with medium cobble and boulder content of brick, brick masonry and concrete. Gravel is angular and subangular fine to coarse chalk, flint and brick (Material possible Cement Kiln Dust). (MADE GROUND)			
	2B		0.50				
	3D		0.50				
	4D*	Vo 0.0	0.50				
	5D		1.00				
	6D*	Vo 0.0	1.00				
	7B		1.00				
	8B		1.50				
	9D		1.50				
	10D*	Vo 0.0	1.50		1.70	5.85	
	11D		2.00	Dark brown, black, orangish brown and off white very sandy angular and subangular fine to coarse concrete, flint and siltstone GRAVEL with a high cobble and boulder content of concrete and flint. Frequent fragments (up to 0.50x40x40mm) of black plastic coated fibrous textile. Rare angular fine and medium gravel sized glass fragments, plastic coated electric cable (up to 7mm diam), plastic (up to 1x20x160mm) and wood (up to 5x10x70mm). (MADE GROUND)			
	12D*	Vo 0.0	2.00	2.10m: 2 no. fragments of carpet (up to 5x200x300mm).	2.20	5.35	
	13B		2.40				
	14B		2.40				
	15D		2.40	White and dark brown sandy silty subangular fine to coarse chalk GRAVEL. (MADE GROUND)	2.40	5.15	
Dry.	16D*	Vo 0.0	2.40	2.40m: Concrete slab.			
				Trial pit completed at 2.40m.			

Notes

Trial pit excavated by JCB 3CX mechanical excavator.
Groundwater not encountered.
Trial pit sides remained stable and vertical.
Trial pit terminated at 2.40m due to concrete obstruction.
Trial pit dimensions 0.60x3.50x2.40m.
On completion, the trial pit was backfilled with materials arising.
Ground protection measures employed comprising plastic sheeting and wooden boards. On completion of trial pit plastic sheeting and wooden boards washed down.

Sketch of Foundation - Not to scale. All dimensions in metres.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

CONTRACT	CHECKED
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Geotechnical Engineering Limited

TRIAL PIT LOG

TP302

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD					Sheet	1 of 1
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT					Scale	1 : 25
Start Date	24 June 2015	Easting	559576.3				
End Date	24 June 2015	Northing	175188.8	Ground level	8.25mOD	Depth	3.50 m

water record	sample/test no/type	result	depth (m)	description	depth (m)	level (m)	legend
	1D*	Vo 0.1	0.30	Orangish brown, grey mottled white slightly silty very sandy subangular fine to coarse flint, chalk and weakly cemented sandy silt GRAVEL. (Material possible Cement Kiln Dust). (MADE GROUND) 0.20m: Steel reinforcement bar (12mm diamx600mm) and scaffold tube with square plate footing at one end (50mm diamx800mm).			
	2B		0.50				
	3D		0.50				
	4D*	Vo 0.2	0.50				
	5D		1.00				
	6D*	Vo 0.6	1.00		1.20	7.05	
	7B		1.50	Poorly cemented grey mottled white locally reddish brown silty very sandy subangular fine to coarse brick, concrete, flint, chalk and weakly cemented sandy silt GRAVEL with rare wood fragments (up to 2x5x10mm). (Material possible Cement Kiln Dust). (MADE GROUND)			
	8B		1.50		1.60	6.65	
	9D		1.50	Poorly cemented off-white and light grey mottled black and orangish brown silty very sandy subangular fine to coarse chalk, poorly cemented silt , rarely brick, sandstone and flint GRAVEL. Rare wood fragments (up to 5x10x30mm) and rare polythene fragments (up to 1x20x20mm). (Material Possible Cement Kiln Dust) (MADE GROUND)			
	10D*	Vo 0.4	1.50				
	11D		2.00				
	12D*	Vo 0.1	2.00		2.20	6.05	
	13B		2.50	White silty subangular fine to coarse chalk GRAVEL with a high cobble and boulder content of chalk. (MADE GROUND) 2.30m: Fence post in side of pit (probable 100mm diam). 2.50m: Steel plates (up to 30x240x240mm).			
	14B		2.50				
	15D		2.50				
	16D*	Vo 0.1	2.50	2.80m: Wooden fence post fragment (75x75x300mm).			
	17D		3.00				
	18D*	Vo 0.0	3.00				
	19B		3.50				
	20D		3.50		3.50	4.75	
Dry.	21D*	Vo 0.0	3.50	Trial pit completed at 3.50m.			

Notes

Trial pit excavated by JCB 3CX mechanical excavator.
Groundwater not encountered.
Trial pit sides remained stable and vertical.
Trial pit dimensions 0.60x2.80x3.50m.
On completion, the trial pit was backfilled with materials arising.
Ground protection measures employed comprising plastic sheeting and wooden boards. On completion of trial pit plastic sheeting and wooden boards washed down.

Sketch of Foundation - Not to scale. All dimensions in metres.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

CONTRACT	CHECKED
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Geotechnical Engineering Limited

TRIAL PIT LOG

TP701

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD					Sheet	1 of 1
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT					Scale	1 : 25
Start Date	25 June 2015	Easting	561563.1				
End Date	25 June 2015	Northing	173333.8	Ground level	6.00mOD	Depth	3.30 m

water record	sample/test no/type	sample/test result	sample/test depth (m)	description	depth (m)	level (m)	legend
	1D		0.30	Firm friable brown mottled grey and white slightly sandy gravelly silty CLAY. Gravel is subangular and subrounded fine to coarse flint, rarely subangular fine and medium chalk and brick. Rare polythene sheeting (up to 1x5x5mm). (MADE GROUND)			
	2D*	Vo 0.5	0.30		0.40	5.60	
	3B		0.50	Stiff brown mottled grey and white slightly sandy gravelly silty CLAY. Gravel is subangular and subrounded fine to coarse flint, rarely subangular fine and medium chalk and brick. (MADE GROUND)			
	4D		0.50				
	5D*	Vo 0.3	0.50		0.90	5.10	
	6D	PP 1.9	1.00	Firm friable reddish brown mottled black, yellowish brown, white and grey slightly sandy slightly gravelly CLAY. Gravel is angular to subrounded fine to coarse flint, chalk and rare brick. Rare cobbles of flint and brick. Rare polythene fragments (up to 1x20x20mm). (MADE GROUND) 0.90m: Green packing tape in side of pit (1x15mm).			
	7D*	Vo 0.1	1.00				
	8B		1.50				
	9B		1.50				
	10D	Vo 0.5	1.50				
	11D*		1.50		2.00	4.00	
	12D	H 42	2.00	Firm reddish brown slightly sandy slightly gravelly silty CLAY. Gravel is angular and subangular fine to coarse flint and chalk. (MADE GROUND/REWORKED NATURAL DEPOSITS)			
	13D*	Vo 0.2	2.00		2.30	3.70	
		PP 1.7	2.00	Firm friable reddish brown slightly sandy silty CLAY. (MADE GROUND/REWORKED NATURAL DEPOSITS)			
	14B		2.50	2.50 - 2.80m: East side of pit: Reddish brown and grey subangular fine and medium crystalline gravel surrounding black ribbed plastic drainage pipe. Pipe undamaged, running roughly north-south adjacent to east face of pit.			
	15B		2.50				
	16D		2.50				
	17D*	Vo 0.2	2.50				
	18D		3.00				
	19D*	Vo 0.1	3.00		3.10	2.90	
	20B		3.20	Soft orangish brown mottled grey slightly sandy silty CLAY. (ALLUVIUM)			
	21D	Vo 0.0	3.20		3.30	2.70	
Dry.	22D*		3.20	Trial pit completed at 3.30m.			

Notes

Trial pit excavated by JCB 3CX mechanical excavator.
Groundwater not encountered.
Trial pit sidewalls spalling 1.00-3.30m
Trial pit dimensions 0.60x2.90x3.30m.
On completion, the trial pit was backfilled with materials arising.
Ground protection measures employed comprising plastic sheeting and wooden boards. On completion of trial pit plastic sheeting and wooden boards washed down.
Stratum names provided by the Engineer.

Sketch of Foundation - Not to scale. All dimensions in metres.

CONTRACT	CHECKED
30766	EC

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Ltd, Tel. 01452 527743 30766 MASTER.GPJ TRIALJH.GPJ GEOTECH M25.GLB 19/10/2015 10:47:12 RS CT

Geotechnical Engineering Limited

TRIAL PIT LOG

TP702

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD					Sheet	1 of 1
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT					Scale	1 : 25
Start Date	25 June 2015	Easting	561575.0				
End Date	25 June 2015	Northing	173292.5	Ground level	5.55mOD	Depth	3.40 m

water record	sample/test no/type	result	depth (m)	description	depth (m)	level (m)	legend
				Firm friable orangish brown slightly sandy silty CLAY with frequent rootlets. (MADE GROUND)			
	1D*	Vo 0.2	0.30				
				0.40 - 0.70m: Reddish brown with rare subangular fine and medium chalk and flint gravel.			
	2B		0.50				
	3D		0.50				
	4D*	Vo 0.1	0.50	0.70 - 0.80m: Slightly gravelly. Gravel is subangular fine to coarse chalk.			
					0.90	4.65	
				Orangish brown silty gravelly fine SAND. Gravel is subangular fine to coarse crystalline. (MADE GROUND)			
	5D		1.00		1.10	4.45	
	6D*	Vo 0.2	1.00	Firm dark grey mottled orangish brown and light grey slightly sandy slightly gravelly silty CLAY with a medium brick cobble content. Gravel is subangular fine to coarse flint and brick. Frequent tree branches (up to 70 diam x 800mm). Strong hydrocarbon odour. (MADE GROUND)			
	7B		1.50		1.60	3.95	
	8B		1.50	Firm friable reddish brown slightly sandy slightly gravelly silty CLAY. Gravel is subangular and subrounded fine and medium chalk. Frequent roots (up to 3mm diam). (MADE GROUND)			
	9D		1.50				
	10D*	Vo 0.1	1.50		2.00	3.55	
	11D		2.00	Firm reddish brown slightly sandy silty CLAY. (MADE GROUND/REWORKED NATURAL DEPOSITS)			
	12D*	Vo 0.0	2.00				
				2.40 - 2.70m: East end of pit: Reddish brown and grey subangular fine and medium crystalline gravel surrounding black ribbed plastic drainage pipe. Pipe undamaged, running roughly north-south adjacent to east end of pit.			
	13B		2.50				
	14B		2.50				
	15D		2.50				
	16D*	Vo 0.0	2.50		2.80	2.75	
				Firm orangish brown mottled grey slightly sandy silty CLAY. Rare roots (up to 4mm diam). (ALLUVIUM)			
	17B	H 43	3.00				
	18D	PP 1.8	3.00				
	19D*	Vo 0.0	3.00	3.20 - 3.40m: Friable.			
	20B		3.40				
	21D		3.40		3.40	2.15	
Dry.	22D*	Vo 0.0	3.40	Trial pit completed at 3.40m.			

Notes

Trial pit excavated by JCB 3CX mechanical excavator.
Groundwater not encountered.
Trial pit sides remained stable and vertical.
Trial pit dimensions 0.60x3.40x3.40m.
On completion, the trial pit was backfilled with materials arising.
Ground protection measures employed comprising plastic sheeting and wooden boards. on completion of trial pit plastic sheeting and wooden boards washed down.
Stratum names provided by the Engineer.

Sketch of Foundation - Not to scale. All dimensions in metres.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

CONTRACT	CHECKED
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Geotechnical Engineering Limited

PERMEABILITY TEST - VARIABLE HEAD

CLIENT LONDON PARAMOUNT RESORT HOLDINGS LTD BOREHOLE **BH202**

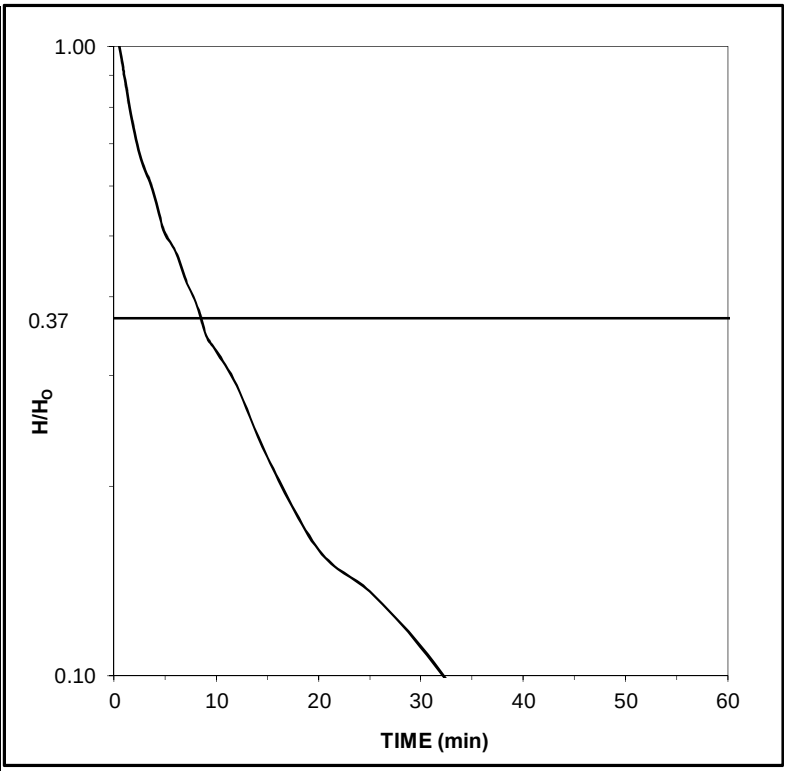
SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DEPTH RECORD

DEPTH OF BOREHOLE	24.00 m	BOREHOLE DIAMETER IN TEST SECTION	0.13 m
DEPTH TO BASE OF CASING	23.00 m	DIAMETER OF CASING	0.15 m
TEST INTERVAL	1.00 m		
HEIGHT OF DATUM ABOVE GROUND LEVEL	0.65 m	TYPE OF TEST	FALLING
DEPTH TO STANDING WATER BELOW DATUM	4.25 m	DATE	15/06/2015

TEST RECORD

ELAPSED TIME (min)	DEPTH TO WATER BELOW DATUM (m)	HEAD (m) H	H / H_O
0.50	0.65	3.60	1.00
0.75	0.83	3.42	0.95
1.00	1.03	3.22	0.89
1.50	1.37	2.88	0.80
2.00	1.63	2.62	0.73
2.50	1.83	2.42	0.67
3.00	1.96	2.29	0.64
3.50	2.06	2.19	0.61
4.00	2.19	2.06	0.57
4.50	2.33	1.92	0.53
5.00	2.44	1.81	0.50
6.00	2.55	1.70	0.47
7.00	2.72	1.53	0.43
8.00	2.84	1.41	0.39
9.00	3.00	1.25	0.35
10.00	3.07	1.18	0.33
12.00	3.21	1.04	0.29
15.00	3.45	0.80	0.22
20.00	3.68	0.57	0.16
25.00	3.76	0.49	0.14
30.00	3.85	0.40	0.11
35.00	3.94	0.31	0.09
40.00	4.02	0.23	0.06
45.00	4.07	0.18	0.05
50.00	4.11	0.14	0.04
55.00	4.12	0.13	0.04
60.00	4.13	0.12	0.03



Time lag method $k = \frac{A}{FT}$

General approach method $k = \frac{A}{F(t_2 - t_1)} \log_e \frac{H_1}{H_2}$

BS 5930 Fig 6, intake factor based on case **B**

RESULTS

TIME LAG METHOD		**GENERAL APPROACH METHOD**		
Cross sectional area of casing, A	**0.0181** m^2	Cross sectional area of casing, A		**0.0181** m^2
Intake factor, F	**0.352** m	Intake factor, F		**0.352** m
Time lag, T	s	Variable head, H_1	m at time, t_1	s
		Variable head, H_2	m at time, t_2	s
Permeability, k	**NIL** ms^{-1}	**Permeability, k**		**NIL** ms^{-1}

REMARKS

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Geotechnical Engineering Limited

PERMEABILITY TEST - VARIABLE HEAD

CLIENT LONDON RESORT COMPANY HOLDINGS LTD BOREHOLE **BH203**

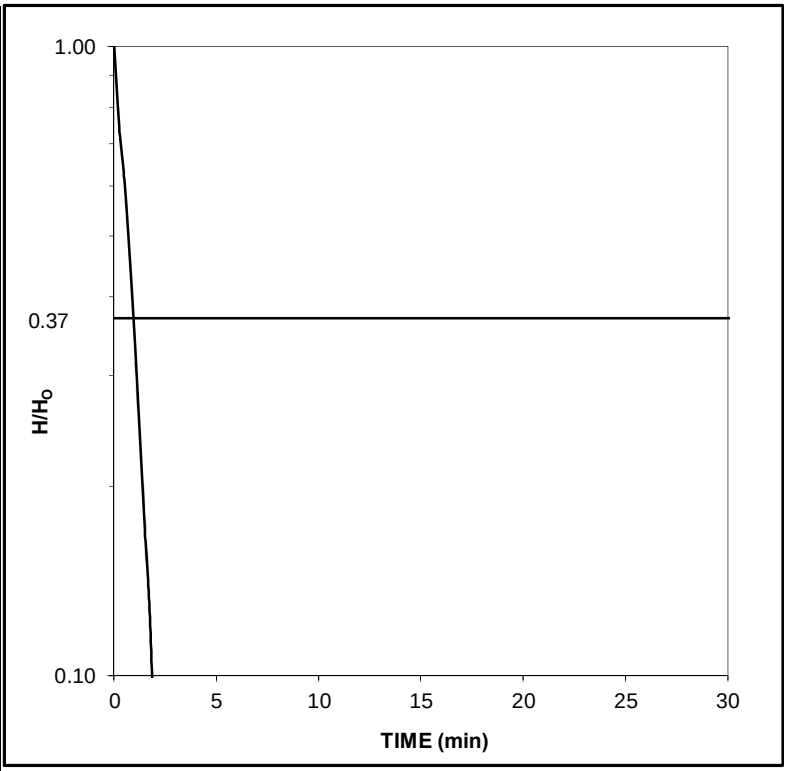
SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DEPTH RECORD

DEPTH OF BOREHOLE	17.00 m	BOREHOLE DIAMETER IN TEST SECTION	0.13 m
DEPTH TO BASE OF CASING	16.00 m	DIAMETER OF CASING	0.15 m
TEST INTERVAL	1.00 m		
HEIGHT OF DATUM ABOVE GROUND LEVEL	0.55 m	TYPE OF TEST	FALLING
DEPTH TO STANDING WATER BELOW DATUM	3.23 m	DATE	30/06/2015

TEST RECORD

ELAPSED TIME (min)	DEPTH TO WATER BELOW DATUM (m)	HEAD (m) H	H / H_O
0.00	0.00	3.23	1.00
0.25	0.83	2.40	0.74
0.50	1.25	1.98	0.61
0.75	1.72	1.51	0.47
1.00	2.12	1.11	0.34
1.25	2.45	0.78	0.24
1.50	2.68	0.55	0.17
1.75	2.83	0.40	0.12
2.00	3.00	0.23	0.07
2.25	3.08	0.15	0.05
2.50	3.15	0.08	0.02
2.75	3.20	0.03	0.01
3.00	3.23	0.00	0.00
3.25	3.23	0.00	0.00
3.50	3.23	0.00	0.00
4.50	3.23	0.00	0.00
5.50	3.23	0.00	0.00
10.00	3.23	0.00	0.00
15.00	3.23	0.00	0.00
20.00	3.23	0.00	0.00
25.00	3.23	0.00	0.00
30.00	3.23	0.00	0.00



Time lag method $k = \frac{A}{FT}$

General approach method $k = \frac{A}{F(t_2 - t_1)} \log_e \frac{H_1}{H_2}$

BS 5930 Fig 6, intake factor based on case **D**

RESULTS

TIME LAG METHOD		**GENERAL APPROACH METHOD**		
Cross sectional area of casing, A	**0.0177** m^2	Cross sectional area of casing, A		**0.0177** m^2
Intake factor, F	**2.282** m	Intake factor, F		**2.282** m
Time lag, T	**80** s	Variable head, H_1	**2.40** m at time, t_1	**15** s
		Variable head, H_2	**0.23** m at time, t_2	**120** s
Permeability, k	**9.68E-05** ms^{-1}	**Permeability, k**		**1.73E-04** ms^{-1}

REMARKS

Borehole open to 17.00m following test.

Approximate tide height during test period: 2.30 ebbing to 2.00m.

Source: http://tides.willyweather.co.uk/london-and-south-east-england/kent/river-thames----broadness.html

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PERMEABILITY TEST - VARIABLE HEAD

CLIENT LONDON RESORT COMPANY HOLDINGS LTD BOREHOLE **BH204**

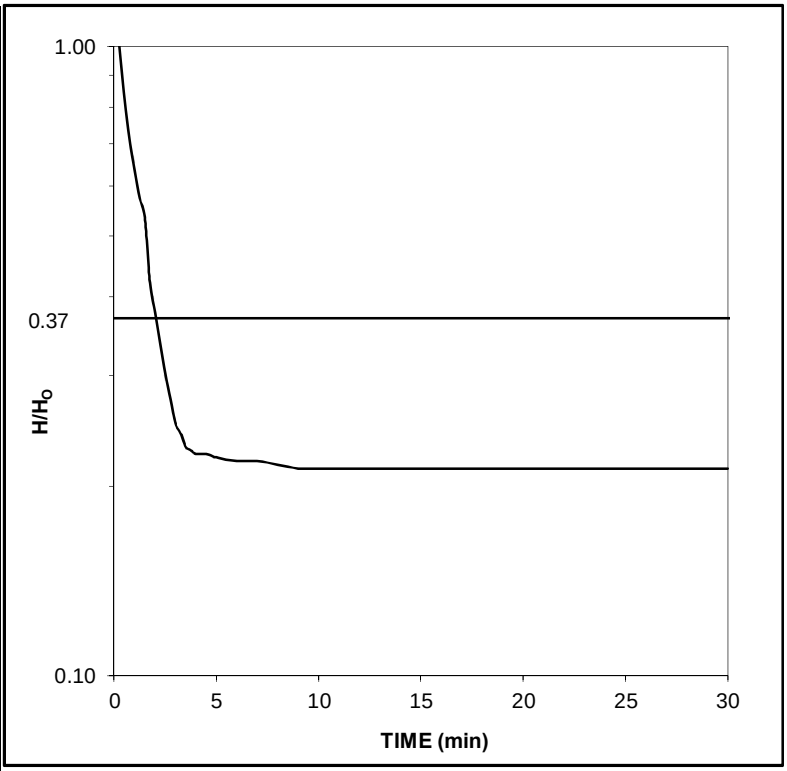
SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DEPTH RECORD

DEPTH OF BOREHOLE	15.00 m	BOREHOLE DIAMETER IN TEST SECTION	0.13 m
DEPTH TO BASE OF CASING	14.00 m	DIAMETER OF CASING	0.15 m
TEST INTERVAL	1.00 m		
HEIGHT OF DATUM ABOVE GROUND LEVEL	0.52 m	TYPE OF TEST	FALLING
DEPTH TO STANDING WATER BELOW DATUM	4.04 m	DATE	25/06/2015

TEST RECORD

ELAPSED TIME (min)	DEPTH TO WATER BELOW DATUM (m)	HEAD (m) H	H / H_O
0.25	0.62	3.42	1.00
0.50	1.21	2.83	0.83
0.75	1.61	2.43	0.71
1.00	1.87	2.17	0.63
1.25	2.08	1.96	0.57
1.50	2.21	1.83	0.54
1.75	2.60	1.44	0.42
2.00	2.75	1.29	0.38
2.25	2.89	1.15	0.34
2.50	3.01	1.03	0.30
2.75	3.10	0.94	0.27
3.00	3.18	0.86	0.25
3.25	3.21	0.83	0.24
3.50	3.25	0.79	0.23
3.75	3.26	0.78	0.23
4.00	3.27	0.77	0.23
4.50	3.27	0.77	0.23
5.00	3.28	0.76	0.22
6.00	3.29	0.75	0.22
7.00	3.29	0.75	0.22
8.00	3.30	0.74	0.22
9.00	3.31	0.73	0.21
10.00	3.31	0.73	0.21
15.00	3.31	0.73	0.21
20.00	3.31	0.73	0.21
25.00	3.31	0.73	0.21
30.00	3.31	0.73	0.21



Time lag method $k = \frac{A}{FT}$

General approach method $k = \frac{A}{F(t_2 - t_1)} \log_e \frac{H_1}{H_2}$

BS 5930 Fig 6, intake factor based on case **D**

RESULTS

TIME LAG METHOD		**GENERAL APPROACH METHOD**		
Cross sectional area of casing, A	**0.0181** m^2	Cross sectional area of casing, A		**0.0181** m^2
Intake factor, F	**2.282** m	Intake factor, F		**2.282** m
Time lag, T	**120** s	Variable head, H_1	**3.42** m at time, t_1	**15** s
		Variable head, H_2	**0.79** m at time, t_2	**210** s
Permeability, k	**6.63E-05** ms^{-1}	**Permeability, k**		**5.97E-05** ms^{-1}

REMARKS

Borehole open to 14.80m following test.

Tide height during test period: 1.60m.

Source: http://tides.willyweather.co.uk/london-and-south-east-england/kent/river-thames----broadness.html

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GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH101	15/07/15 09:00:00	1019	-0.28								0.0	20		
BH101	15/07/15 09:01:00										0.0			
BH101	15/07/15 09:02:00										0.0			
BH101	15/07/15 09:03:00										0.0			
BH101	15/07/15 09:04:00										0.0			
BH101	15/07/15 09:05:00			0.0	0.3	20.4	5.0	0	2	3.5				
BH101	15/07/15 09:06:00			0.0	0.3	20.4	4.0	0	3	3.1				
BH101	15/07/15 09:07:00			0.0	0.2	20.4	3.0	0	4	2.9				
BH101	15/07/15 09:08:00			0.0	0.2	20.4	3.0	0	6	2.8				
BH101	15/07/15 09:09:00			0.0	0.1	20.4	2.0	0	6	2.5				
BH101	15/07/15 09:10:00			0.0	0.1	20.4	1.0	0	7	2.3				
BH101	15/07/15 09:11:00			0.0	0.1	20.3	1.0	0	7	2.2				
BH101	15/07/15 09:12:00			0.0	0.1	20.3	1.0	0	8	2.2				
BH101	15/07/15 09:13:00			0.0	0.1	20.3	1.0	0	7	2.2				
BH101	15/07/15 09:14:00			0.0	0.1	20.3	1.0	0	8	2.1			5.26	
BH101	29/07/15 12:45:00	1009	0								0.0	18		
BH101	29/07/15 12:46:00										0.0			
BH101	29/07/15 12:47:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH101	29/07/15 12:48:00										0.0			
BH101	29/07/15 12:49:00										0.0			
BH101	29/07/15 12:50:00			0.6	5.3	18.5	>>>	0	0	0.0				
BH101	29/07/15 12:51:00			0.4	3.5	19.0	70.0	0	0	0.0				
BH101	29/07/15 12:52:00			0.4	3.2	19.1	64.0	0	0	0.0				
BH101	29/07/15 12:53:00			0.4	2.9	19.2	58.0	0	0	0.0				
BH101	29/07/15 12:54:00			0.3	2.4	19.3	48.0	0	0	0.0				
BH101	29/07/15 12:55:00			0.3	2.3	19.3	46.0	0	0	0.0				
BH101	29/07/15 12:56:00			0.3	2.3	19.3	44.0	0	0	0.0				
BH101	29/07/15 12:57:00												3.99	
BH101	12/08/15 09:30:00	1020	0								0.0	19		
BH101	12/08/15 09:31:00										0.0			
BH101	12/08/15 09:32:00										0.0			
BH101	12/08/15 09:33:00										0.0			
BH101	12/08/15 09:34:00										0.0			
BH101	12/08/15 09:35:00			0.0	0.0	20.5	0.0	0	0	1.8				
BH101	12/08/15 09:36:00			0.0	0.0	20.5	0.0	0	0	1.6				
BH101	12/08/15 09:37:00			0.0	0.0	20.5	0.0	0	0	1.4				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH101	12/08/15 09:38:00			0.0	0.0	20.5	0.0	0	0	1.2				
BH101	12/08/15 09:39:00			0.0	0.0	20.5	0.0	0	0	1.2				
BH101	12/08/15 09:40:00			0.0	0.0	20.5	0.0	0	0	1.1				
BH101	12/08/15 09:41:00			0.0	0.0	20.5	0.0	0	0	1.1				
BH101	12/08/15 09:42:00			0.0	0.0	20.5	0.0	0	0	1.0				
BH101	12/08/15 09:43:00			0.0	0.0	20.5	0.0	0	0	0.9				
BH101	12/08/15 09:44:00			0.0	0.0	20.5	0.0	0	0	0.9			4.98	
BH101	26/08/15 16:15:00	999										17		
BH101	26/08/15 16:16:00		0								0.0			
BH101	26/08/15 16:17:00		-2								-0.6			
BH101	26/08/15 16:18:00		-1								-0.3			
BH101	26/08/15 16:19:00		0								0.0			
BH101	26/08/15 16:20:00		0								0.0			
BH101	26/08/15 16:21:00			0.0	0.0	20.6	0.0	0	0	0.0				
BH101	26/08/15 16:22:00			0.0	0.0	20.6	0.0	0	0	0.0				
BH101	26/08/15 16:23:00			0.0	0.0	20.6	0.0	0	0	0.0				
BH101	26/08/15 16:24:00			0.0	0.0	20.6	0.0	0	0	0.0				
BH101	26/08/15 16:25:00			0.0	0.0	20.6	0.0	0	0	0.0				Stable readings

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH101	26/08/15 16:26:00												5.04	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH201	15/07/15 12:45:00	1016	0.63								0.0	23		
BH201	15/07/15 12:46:00										0.0			
BH201	15/07/15 12:47:00										0.0			
BH201	15/07/15 12:48:00										0.0			
BH201	15/07/15 12:49:00										0.0			
BH201	15/07/15 12:50:00			0.0	0.1	15.7	1.0	0	1	4.9				
BH201	15/07/15 12:51:00			0.0	0.0	15.7	0.0	0	0	4.7				
BH201	15/07/15 12:52:00			0.0	0.0	15.7	0.0	0	1	4.5				
BH201	15/07/15 12:53:00			0.0	0.0	15.7	0.0	0	0	4.3				
BH201	15/07/15 12:54:00			0.0	0.0	15.7	0.0	0	0	4.1				
BH201	15/07/15 12:55:00			0.0	0.0	15.7	0.0	0	0	3.9				
BH201	15/07/15 12:56:00			0.0	0.0	15.8	0.0	0	0	3.5				
BH201	15/07/15 12:57:00			0.0	0.0	15.8	0.0	0	0	3.2				
BH201	15/07/15 12:58:00			0.0	0.0	15.9	0.0	0	0	3.0				
BH201	15/07/15 12:59:00			0.0	0.0	15.9	0.0	0	0	2.8			3.83	
BH201	29/07/15 09:30:00	1002										16		
BH201	29/07/15 09:31:00										0.0			
BH201	29/07/15 09:32:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH201	29/07/15 09:33:00										0.4			
BH201	29/07/15 09:34:00										0.0			
BH201	29/07/15 09:35:00										0.0			
BH201	29/07/15 09:36:00			0.0	0.0	15.4	0.0	0	0	0.0				
BH201	29/07/15 09:37:00			0.0	0.0	15.2	0.0	0	0	0.0				
BH201	29/07/15 09:38:00			0.0	0.0	15.1	0.0	0	0	0.0				
BH201	29/07/15 09:39:00			0.0	0.0	15.0	0.0	0	0	0.0				
BH201	29/07/15 09:40:00			0.0	0.0	15.1	0.0	0	0	0.0				
BH201	29/07/15 09:41:00			0.0	0.0	15.4	0.0	0	0	0.0				
BH201	29/07/15 09:42:00			0.0	0.0	15.3	0.0	0	0	0.0				
BH201	29/07/15 09:43:00			0.0	0.0	15.4	0.0	0	0	0.0				
BH201	29/07/15 09:44:00			0.0	0.0	15.3	0.0	0	0	0.0				
BH201	29/07/15 09:45:00			0.0	0.0	15.4	0.0	0	0	0.0				
BH201	29/07/15 09:46:00												3.81	
BH201	12/08/15 13:00:00	1020	0								0.0	19		
BH201	12/08/15 13:01:00										0.0			
BH201	12/08/15 13:02:00										0.0			
BH201	12/08/15 13:03:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH201	12/08/15 13:04:00										0.0			
BH201	12/08/15 13:05:00			0.0	0.0	19.9	0.0	0	0	1.6				
BH201	12/08/15 13:06:00			0.0	0.0	16.8	0.0	0	0	1.6				
BH201	12/08/15 13:07:00			0.0	0.0	16.6	0.0	0	0	1.6				
BH201	12/08/15 13:08:00			0.0	0.0	16.5	0.0	0	0	1.6				
BH201	12/08/15 13:09:00			0.0	0.0	16.4	0.0	0	0	1.6				
BH201	12/08/15 13:10:00			0.0	0.0	16.3	0.0	0	0	1.6				
BH201	12/08/15 13:11:00			0.0	0.0	16.3	0.0	0	0	1.6				
BH201	12/08/15 13:12:00			0.0	0.0	16.2	0.0	0	0	1.6				
BH201	12/08/15 13:13:00			0.0	0.0	15.9	0.0	0	0	1.5				
BH201	12/08/15 13:14:00			0.0	0.0	16.1	0.0	0	0	1.5			3.92	
BH201	26/08/15 14:40:00	1000	0									17		
BH201	26/08/15 14:41:00		0								0.0			
BH201	26/08/15 14:42:00		-1								-0.3			
BH201	26/08/15 14:43:00		0								0.0			
BH201	26/08/15 14:44:00		0								0.0			
BH201	26/08/15 14:45:00		0								0.0			
BH201	26/08/15 14:46:00			0.0	0.0	15.9	0.0	0	0	0.0				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH201	26/08/15 14:47:00			0.0	0.0	15.9	0.0	0	0	0.0				
BH201	26/08/15 14:48:00			0.0	0.0	15.8	0.0	0	0	0.0				
BH201	26/08/15 14:49:00			0.0	0.0	15.8	0.0	0	0	0.0				
BH201	26/08/15 14:50:00			0.0	0.0	15.7	0.0	0	0	0.0				
BH201	26/08/15 14:51:00			0.0	0.0	15.6	0.0	0	0	0.0				
BH201	26/08/15 14:52:00			0.0	0.0	15.6	0.0	0	0	0.0				
BH201	26/08/15 14:53:00			0.0	0.0	15.5	0.0	0	0	0.0				
BH201	26/08/15 14:54:00			0.0	0.0	15.5	0.0	0	0	0.0				
BH201	26/08/15 14:55:00			0.0	0.0	15.5	0.0	0	0	0.0				
BH201	26/08/15 14:56:00												3.90	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH202	25/06/15 11:30:00												3.39	
BH202	14/07/15 14:20:00	1019									0.0	20		
BH202	14/07/15 14:21:00										0.0			
BH202	14/07/15 14:22:00										0.0			
BH202	14/07/15 14:23:00										0.0			
BH202	14/07/15 14:24:00										0.0			
BH202	14/07/15 14:25:00			0.0	0.1	18.8	0.0	0	0	4.5				
BH202	14/07/15 14:26:00			0.0	0.1	18.7	0.0	0	0	4.5				
BH202	14/07/15 14:27:00			0.0	0.1	18.7	0.0	0	0	4.0				
BH202	14/07/15 14:28:00			0.0	0.1	18.6	0.0	0	0	3.6				
BH202	14/07/15 14:29:00			0.0	0.1	18.7	0.0	0	0	3.3				
BH202	14/07/15 14:30:00			0.0	0.1	18.7	0.0	0	0	3.1				
BH202	14/07/15 14:31:00			0.0	0.1	18.7	0.0	0	0	2.9				
BH202	14/07/15 14:32:00			0.0	0.1	18.7	0.0	0	0	2.7				
BH202	14/07/15 14:33:00			0.0	0.1	18.7	0.0	0	0	2.6				
BH202	14/07/15 14:34:00			0.0	0.1	18.7	0.0	0	0	2.5				
BH202	14/07/15 14:35:00												3.39	
BH202	29/07/15 09:45:00	1010	0								0.0	18		

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH202	29/07/15 09:46:00										0.0			
BH202	29/07/15 09:47:00										0.0			
BH202	29/07/15 09:48:00										0.0			
BH202	29/07/15 09:49:00										0.0			
BH202	29/07/15 09:50:00			0.0	0.0	19.6	0.0	0	0	0.0				
BH202	29/07/15 09:51:00			0.0	0.0	19.6	0.0	0	0	0.0				
BH202	29/07/15 09:52:00			0.0	0.0	19.7	0.0	0	0	0.0				
BH202	29/07/15 09:53:00			0.0	0.0	19.7	0.0	0	0	0.0				
BH202	29/07/15 09:54:00			0.0	0.0	19.7	0.0	0	0	0.0				
BH202	29/07/15 09:55:00												3.85	
BH202	12/08/15 10:00:00	1018	-0.23								0.0	21		
BH202	12/08/15 10:01:00										0.0			
BH202	12/08/15 10:02:00										0.0			
BH202	12/08/15 10:03:00										0.0			
BH202	12/08/15 10:04:00										0.0			
BH202	12/08/15 10:05:00			0.0	0.0	20.5	0.0	0	0	2.1				
BH202	12/08/15 10:06:00			0.0	0.0	20.5	0.0	0	0	1.9				
BH202	12/08/15 10:07:00			0.0	0.0	20.5	0.0	0	0	1.9				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH202	12/08/15 10:08:00			0.0	0.0	20.5	0.0	0	0	1.7				
BH202	12/08/15 10:09:00			0.0	0.0	20.5	0.0	0	0	1.5				
BH202	12/08/15 10:10:00			0.0	0.0	20.5	0.0	0	0	1.4				
BH202	12/08/15 10:11:00			0.1	0.0	20.5	0.0	0	1	1.4				
BH202	12/08/15 10:12:00			0.1	0.0	20.5	0.0	0	1	1.4				
BH202	12/08/15 10:13:00			0.1	0.0	20.5	0.0	0	1	1.3				
BH202	12/08/15 10:14:00			0.0	0.0	20.5	0.0	0	0	1.3			3.29	
BH202	26/08/15 15:00:00	1002	0								0.0	13		
BH202	26/08/15 15:01:00										0.0			
BH202	26/08/15 15:02:00										0.0			
BH202	26/08/15 15:03:00										0.0			
BH202	26/08/15 15:04:00										0.0			
BH202	26/08/15 15:05:00			0.0	0.0	19.7	0.0	0	0	0.0				
BH202	26/08/15 15:06:00			0.0	0.0	19.7	0.0	0	0	0.0				
BH202	26/08/15 15:07:00			0.0	0.0	19.7	0.0	0	0	0.0				
BH202	26/08/15 15:08:00			0.0	0.0	19.7	0.0	0	0	0.0				
BH202	26/08/15 15:09:00			0.0	0.0	19.7	0.0	0	0	0.0				STABLE READINGS
BH202	26/08/15 15:10:00												3.69	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH203	15/07/15 11:45:00	1017	0.32								0.0	23		
BH203	15/07/15 11:46:00										0.0			
BH203	15/07/15 11:47:00										0.0			
BH203	15/07/15 11:48:00										0.0			
BH203	15/07/15 11:49:00										0.0			
BH203	15/07/15 11:50:00			0.4	0.0	17.9	0.0	0	19	6.5				
BH203	15/07/15 11:51:00			0.4	0.0	18.0	0.0	0	18	6.6				
BH203	15/07/15 11:52:00			0.4	0.0	18.2	0.0	0	17	6.1				
BH203	15/07/15 11:53:00			0.4	0.0	18.2	0.0	0	17	6.2				
BH203	15/07/15 11:54:00			0.3	0.0	18.1	0.0	0	16	6.1				
BH203	15/07/15 11:55:00			0.3	0.0	18.1	0.0	0	15	6.0				
BH203	15/07/15 11:56:00			0.3	0.0	18.1	0.0	0	15	5.9				
BH203	15/07/15 11:57:00			0.3	0.0	18.1	0.0	0	14	5.7				
BH203	15/07/15 11:58:00			0.3	0.0	18.1	0.0	0	13	5.3				
BH203	15/07/15 11:59:00			0.3	0.0	18.1	0.0	0	13	5.6			2.37	
BH203	29/07/15 08:30:00	1008	0								0.0	18		
BH203	29/07/15 08:31:00										0.0			
BH203	29/07/15 08:32:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH203	29/07/15 08:33:00										0.0			
BH203	29/07/15 08:34:00										0.0			
BH203	29/07/15 08:35:00			0.1	0.0	17.1	0.0	0	0	0.0				
BH203	29/07/15 08:36:00			0.1	0.0	17.2	0.0	0	0	0.0				
BH203	29/07/15 08:37:00			0.1	0.0	17.2	0.0	0	0	0.0				
BH203	29/07/15 08:38:00			0.1	0.0	16.9	0.0	0	0	0.0				
BH203	29/07/15 08:39:00			0.1	0.0	16.5	0.0	0	0	0.0				
BH203	29/07/15 08:40:00			0.0	0.0	16.2	0.0	0	0	0.0				
BH203	29/07/15 08:41:00			0.0	0.0	15.6	0.0	0	0	0.0				
BH203	29/07/15 08:42:00			0.0	0.0	15.2	0.0	0	0	0.0				
BH203	29/07/15 08:43:00			0.0	0.0	14.9	0.0	0	0	0.0				
BH203	29/07/15 08:44:00			0.0	0.0	14.7	0.0	0	0	0.0				
BH203	29/07/15 08:45:00												2.86	
BH203	13/08/15 10:30:00	1012	0								0.0	19		
BH203	13/08/15 10:31:00										0.0			
BH203	13/08/15 10:32:00										0.0			
BH203	13/08/15 10:33:00										0.0			
BH203	13/08/15 10:34:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH203	13/08/15 10:35:00			0.0	0.0	20.2	0.0	0	0	2.5				
BH203	13/08/15 10:36:00			0.0	0.0	20.2	0.0	0	0	2.2				
BH203	13/08/15 10:37:00			0.0	0.0	20.2	0.0	0	0	2.0				
BH203	13/08/15 10:38:00			0.0	0.0	20.3	0.0	0	0	1.6				
BH203	13/08/15 10:39:00			0.0	0.0	20.3	0.0	0	0	1.5				
BH203	13/08/15 10:40:00			0.0	0.0	20.3	0.0	0	0	1.4				
BH203	13/08/15 10:41:00			0.0	0.0	20.3	0.0	0	0	1.3				
BH203	13/08/15 10:42:00			0.0	0.0	20.3	0.0	0	0	1.2				
BH203	13/08/15 10:43:00			0.0	0.0	20.4	0.0	0	0	1.1				
BH203	13/08/15 10:44:00			0.0	0.0	20.4	0.0	0	0	1.0			2.82	
BH203	26/08/15 13:15:00	1004									0.0	13		
BH203	26/08/15 13:16:00										0.0			
BH203	26/08/15 13:17:00										0.0			
BH203	26/08/15 13:18:00										0.0			
BH203	26/08/15 13:19:00										0.0			
BH203	26/08/15 13:20:00			0.2	0.0	19.4	0.0	0	0	0.0				
BH203	26/08/15 13:21:00			0.2	0.0	19.4	0.0	0	0	0.0				
BH203	26/08/15 13:22:00			0.2	0.0	19.4	0.0	0	0	0.0				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH203	26/08/15 13:23:00			0.1	0.0	19.4	0.0	0	0	0.0				
BH203	26/08/15 13:24:00			0.1	0.0	19.4	0.0	0	0	0.0				STABLE READINGS
BH203	26/08/15 13:25:00												2.89	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH204	15/07/15 11:00:00	1018	0.92								0.0	21		
BH204	15/07/15 11:01:00										0.0			
BH204	15/07/15 11:02:00										0.0			
BH204	15/07/15 11:03:00										0.0			
BH204	15/07/15 11:04:00										0.0			
BH204	15/07/15 11:05:00			1.2	0.5	18.1	10.0	0	4	4.7				
BH204	15/07/15 11:06:00			1.2	0.5	18.1	9.0	0	4	4.2				
BH204	15/07/15 11:07:00			1.2	0.5	18.1	9.0	0	4	3.8				
BH204	15/07/15 11:08:00			1.1	0.5	18.2	9.0	0	4	3.6				
BH204	15/07/15 11:09:00			1.1	0.5	18.2	9.0	0	4	3.5				
BH204	15/07/15 11:10:00			1.1	0.5	18.2	9.0	0	4	3.4				
BH204	15/07/15 11:11:00			1.1	0.5	18.2	9.0	0	4	3.1				
BH204	15/07/15 11:12:00			1.0	0.4	18.3	8.0	0	3	2.7				
BH204	15/07/15 11:13:00			1.0	0.4	18.3	8.0	0	4	2.7				
BH204	15/07/15 11:14:00			1.0	0.4	18.3	8.0	0	3	2.8			2.50	
BH204	29/07/15 08:32:00	990										16		
BH204	29/07/15 08:33:00										0.0			
BH204	29/07/15 08:34:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH204	29/07/15 08:35:00										0.0			
BH204	29/07/15 08:36:00										0.0			
BH204	29/07/15 08:37:00										0.0			
BH204	29/07/15 08:38:00			0.8	0.0	18.9	0.0	0	0	7.0				
BH204	29/07/15 08:39:00			0.5	0.0	19.7	0.0	0	0	6.3				
BH204	29/07/15 08:40:00			0.5	0.0	19.7	0.0	0	0	6.1				
BH204	29/07/15 08:41:00			0.7	0.0	19.3	0.0	0	0	6.1				
BH204	29/07/15 08:42:00			0.8	0.0	19.2	0.0	0	0	6.0				
BH204	29/07/15 08:43:00			0.2	0.0	20.2	0.0	0	0	5.9				
BH204	29/07/15 08:44:00			0.3	0.0	20.2	0.0	0	0	5.8				
BH204	29/07/15 08:45:00			0.4	0.0	20.0	0.0	0	0	5.7				
BH204	29/07/15 08:46:00			0.7	0.0	19.5	0.0	0	0	5.4				
BH204	29/07/15 08:47:00			0.7	0.0	19.5	0.0	0	0	5.3				
BH204	29/07/15 08:48:00												2.80	
BH204	13/08/15 09:45:00	1012	0								0.0	19		
BH204	13/08/15 09:46:00										0.0			
BH204	13/08/15 09:47:00										0.0			
BH204	13/08/15 09:48:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH204	13/08/15 09:49:00										0.0			
BH204	13/08/15 09:50:00			0.0	0.0	20.1	0.0	0	0	3.0				
BH204	13/08/15 09:51:00			0.0	0.0	20.1	0.0	0	0	2.2				
BH204	13/08/15 09:52:00			0.0	0.0	20.2	0.0	0	0	1.8				
BH204	13/08/15 09:53:00			0.0	0.0	20.2	0.0	0	0	1.5				
BH204	13/08/15 09:54:00			0.0	0.0	20.2	0.0	0	0	1.4				
BH204	13/08/15 09:55:00			0.0	0.0	20.3	0.0	0	0	1.2				
BH204	13/08/15 09:56:00			0.0	0.0	20.3	0.0	0	0	1.1				
BH204	13/08/15 09:57:00			0.0	0.0	20.3	0.0	0	0	0.9				
BH204	13/08/15 09:58:00			0.0	0.0	20.3	0.0	0	0	0.8				
BH204	13/08/15 09:59:00			0.0	0.0	20.4	0.0	0	0	0.7			3.08	
BH204	26/08/15 13:35:00	1004									0.0	13		
BH204	26/08/15 13:36:00										0.0			
BH204	26/08/15 13:37:00										0.0			
BH204	26/08/15 13:38:00										0.0			
BH204	26/08/15 13:39:00										0.0			
BH204	26/08/15 13:40:00			0.4	0.0	19.1	0.0	0	0	0.0				
BH204	26/08/15 13:41:00			0.4	0.0	19.2	0.0	0	0	0.0				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH204	26/08/15 13:42:00			0.3	0.0	19.2	0.0	0	0	0.0				
BH204	26/08/15 13:43:00			0.3	0.0	19.3	0.0	0	0	0.0				
BH204	26/08/15 13:44:00			0.3	0.0	19.3	0.0	0	0	0.0				STABLE READINGS
BH204	26/08/15 13:45:00												2.88	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH501	15/07/15 13:45:00	1016	0.33								0.0	23		
BH501	15/07/15 13:46:00										0.0			
BH501	15/07/15 13:47:00										0.0			
BH501	15/07/15 13:48:00										0.0			
BH501	15/07/15 13:49:00										0.0			
BH501	15/07/15 13:50:00			0.1	0.0	19.1	0.0	0	3	3.4				
BH501	15/07/15 13:51:00			0.1	0.0	19.1	0.0	0	3	4.0				
BH501	15/07/15 13:52:00			0.1	0.0	19.0	0.0	0	3	4.2				
BH501	15/07/15 13:53:00			0.1	0.0	19.0	0.0	0	4	4.3				
BH501	15/07/15 13:54:00			0.1	0.0	19.0	0.0	0	4	4.4				
BH501	15/07/15 13:55:00			0.1	0.0	18.4	0.0	0	3	4.7				
BH501	15/07/15 13:56:00			0.1	0.0	17.9	0.0	0	3	4.6				
BH501	15/07/15 13:57:00			0.0	0.0	17.1	0.0	0	2	4.2				
BH501	15/07/15 13:58:00			0.0	0.0	16.1	0.0	0	2	3.6				
BH501	15/07/15 13:59:00			0.0	0.0	15.0	0.0	0	1	3.0			11.73	
BH501	28/07/15 13:20:00	1004									0.0	18		
BH501	28/07/15 13:21:00										0.0			
BH501	28/07/15 13:22:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH501	28/07/15 13:23:00										0.0			
BH501	28/07/15 13:24:00										0.0			
BH501	28/07/15 13:25:00			0.2	0.0	18.2	0.0	0	0	0.0				
BH501	28/07/15 13:26:00			0.2	0.0	18.2	0.0	0	0	0.0				
BH501	28/07/15 13:27:00			0.2	0.0	18.2	0.0	0	0	0.0				
BH501	28/07/15 13:28:00			0.2	0.0	18.1	0.0	0	0	0.0				
BH501	28/07/15 13:29:00			0.2	0.0	18.1	0.0	0	0	0.0				
BH501	28/07/15 13:30:00													
BH501	28/07/15 13:31:00													
BH501	28/07/15 13:32:00												11.76	
BH501	13/08/15 11:20:00	1012	0								0.0	20		
BH501	13/08/15 11:21:00										0.0			
BH501	13/08/15 11:22:00										0.0			
BH501	13/08/15 11:23:00										0.0			
BH501	13/08/15 11:24:00										0.0			
BH501	13/08/15 11:25:00			0.0	0.0	20.2	0.0	0	0	1.8				
BH501	13/08/15 11:26:00			0.0	0.0	20.2	0.0	0	0	1.6				
BH501	13/08/15 11:27:00			0.0	0.0	20.2	0.0	0	0	1.6				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH501	13/08/15 11:28:00			0.0	0.0	20.2	0.0	0	0	1.6				
BH501	13/08/15 11:29:00			0.0	0.0	20.2	0.0	0	0	1.6				
BH501	13/08/15 11:30:00			0.0	0.0	20.2	0.0	0	0	1.6				
BH501	13/08/15 11:31:00			0.0	0.0	20.2	0.0	0	0	1.7				
BH501	13/08/15 11:32:00			0.0	0.0	20.2	0.0	0	0	1.7				
BH501	13/08/15 11:33:00			0.0	0.0	20.2	0.0	0	0	1.7				
BH501	13/08/15 11:34:00			0.0	0.0	20.2	0.0	0	0	1.7			4.73	
BH501	26/08/15 11:45:00	1002	0								0.0	13		
BH501	26/08/15 11:46:00										0.0			
BH501	26/08/15 11:47:00										0.0			
BH501	26/08/15 11:48:00										0.0			
BH501	26/08/15 11:49:00										0.0			
BH501	26/08/15 11:50:00			0.4	0.0	19.2	0.0	0	0	0.0				
BH501	26/08/15 11:51:00			0.4	0.0	19.2	0.0	0	0	0.0				
BH501	26/08/15 11:52:00			0.4	0.0	19.2	0.0	0	0	0.0				
BH501	26/08/15 11:53:00			0.3	0.0	19.2	0.0	0	0	0.0				
BH501	26/08/15 11:54:00			0.3	0.0	19.2	0.0	0	0	0.0				STABLE READINGS
BH501	26/08/15 11:55:00												11.73	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH502	15/07/15 13:30:00	1018									0.0	24		
BH502	15/07/15 13:31:00										0.0			
BH502	15/07/15 13:32:00										0.0			
BH502	15/07/15 13:33:00										0.0			
BH502	15/07/15 13:34:00										0.0			
BH502	15/07/15 13:35:00			0.0	0.8	16.8	0.0	0	0	0.0				
BH502	15/07/15 13:36:00			0.0	1.2	15.4	0.0	0	0	0.0				
BH502	15/07/15 13:37:00			0.0	1.4	14.3	0.0	0	0	0.0				
BH502	15/07/15 13:38:00			0.0	1.5	13.9	0.0	0	0	0.0				
BH502	15/07/15 13:39:00			0.0	1.5	13.8	0.0	0	0	0.0				
BH502	15/07/15 13:40:00			0.0	1.5	13.8	0.0	0	0	0.0				
BH502	15/07/15 13:41:00			0.0	1.5	13.8	0.0	0	0	0.0				
BH502	15/07/15 13:42:00			0.0	1.5	13.8	0.0	0	0	0.0				
BH502	15/07/15 13:43:00			0.0	1.5	13.8	0.0	0	0	0.0				
BH502	15/07/15 13:44:00			0.0	1.5	13.8	0.0	0	0	0.0				
BH502	15/07/15 13:45:00												12.22	
BH502	28/07/15 13:15:00	1000										17		
BH502	28/07/15 13:16:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH502	28/07/15 13:17:00										0.0			
BH502	28/07/15 13:18:00										0.0			
BH502	28/07/15 13:19:00										0.0			
BH502	28/07/15 13:20:00										0.0			
BH502	28/07/15 13:21:00			1.0	0.0	17.4	0.0	0	0	0.0				
BH502	28/07/15 13:22:00			0.8	0.0	18.0	0.0	0	0	0.0				
BH502	28/07/15 13:23:00			0.3	0.0	19.4	0.0	0	0	0.0				
BH502	28/07/15 13:24:00			0.5	0.0	19.0	0.0	0	0	0.0				
BH502	28/07/15 13:25:00			0.8	0.0	17.9	0.0	0	0	0.0				
BH502	28/07/15 13:26:00			0.6	0.0	18.6	0.0	0	0	0.0				
BH502	28/07/15 13:27:00			0.7	0.0	18.0	0.0	0	0	0.0				
BH502	28/07/15 13:28:00			0.8	0.0	18.2	0.0	0	0	0.0				
BH502	28/07/15 13:29:00			0.8	0.0	17.5	0.0	0	0	0.0				
BH502	28/07/15 13:30:00			0.8	0.0	17.3	0.0	0	0	0.0				
BH502	28/07/15 13:31:00												12.02	
BH502	13/08/15 11:30:00	1015	-0.48								0.0	21		
BH502	13/08/15 11:31:00										0.0			
BH502	13/08/15 11:32:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH502	13/08/15 11:33:00										0.0			
BH502	13/08/15 11:34:00										0.0			
BH502	13/08/15 11:35:00			0.0	1.8	13.9	0.0	0	0	1.9				
BH502	13/08/15 11:36:00			0.0	1.8	13.9	0.0	0	0	1.6				
BH502	13/08/15 11:37:00			0.0	1.8	13.9	0.0	0	0	1.6				
BH502	13/08/15 11:38:00			0.0	1.8	13.9	0.0	0	0	1.6				
BH502	13/08/15 11:39:00			0.0	1.8	13.9	0.0	0	0	1.5				
BH502	13/08/15 11:40:00			0.0	1.8	13.9	0.0	0	0	1.5				
BH502	13/08/15 11:41:00			0.0	1.8	13.9	0.0	0	0	1.5				
BH502	13/08/15 11:42:00			0.0	1.8	13.9	0.0	0	0	1.4				
BH502	13/08/15 11:43:00			0.0	1.8	13.9	0.0	0	0	1.4				
BH502	13/08/15 11:44:00			0.0	1.8	13.9	0.0	0	0	1.4			12.09	
BH502	26/08/15 12:20:00	1002	0								0.0	13		
BH502	26/08/15 12:21:00										0.0			
BH502	26/08/15 12:22:00										0.0			
BH502	26/08/15 12:23:00										0.0			
BH502	26/08/15 12:24:00										0.0			
BH502	26/08/15 12:25:00			1.3	0.0	14.3	0.0	0	0	0.0				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH502	26/08/15 12:26:00			1.4	0.0	13.9	0.0	0	0	0.0				
BH502	26/08/15 12:27:00			1.4	0.0	13.7	0.0	0	0	0.0				
BH502	26/08/15 12:28:00			1.5	0.0	13.5	0.0	0	0	0.0				
BH502	26/08/15 12:29:00			1.6	0.0	13.4	0.0	0	0	0.0				
BH502	26/08/15 12:30:00			1.6	0.0	13.2	0.0	0	0	0.0				
BH502	26/08/15 12:31:00			1.5	0.0	13.2	0.0	0	0	0.0				
BH502	26/08/15 12:32:00			1.6	0.0	13.3	0.0	0	0	0.0				
BH502	26/08/15 12:33:00			1.5	0.0	13.2	0.0	0	0	0.0				
BH502	26/08/15 12:34:00			1.5	0.0	13.2	0.0	0	0	0.0				
BH502	26/08/15 12:35:00												11.59	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH703	20/07/15 08:30:00	1011	0								0.0	19		
BH703	20/07/15 08:31:00										0.0			
BH703	20/07/15 08:32:00										0.0			
BH703	20/07/15 08:33:00										0.0			
BH703	20/07/15 08:34:00										0.0			
BH703	20/07/15 08:35:00			0.4	0.0	14.1	0.0	0	0	7.4				
BH703	20/07/15 08:36:00			0.4	0.0	14.0	0.0	0	0	7.5				
BH703	20/07/15 08:37:00			0.4	0.0	14.0	0.0	0	0	7.5				
BH703	20/07/15 08:38:00			0.4	0.0	14.0	0.0	0	0	6.9				
BH703	20/07/15 08:39:00			0.4	0.0	13.9	0.0	0	0	7.0				
BH703	20/07/15 08:40:00			0.4	0.0	13.9	0.0	0	0	6.8				
BH703	20/07/15 08:41:00			0.4	0.0	13.9	0.0	0	0	6.6				
BH703	20/07/15 08:42:00			0.4	0.0	13.9	0.0	0	0	6.4				
BH703	20/07/15 08:43:00			0.4	0.0	13.9	0.0	0	0	6.7				
BH703	20/07/15 08:44:00			0.4	0.0	13.8	0.0	0	0	6.8			4.77	
BH703	28/07/15 09:57:00	986										16		
BH703	28/07/15 09:58:00										0.0			
BH703	28/07/15 09:59:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH703	28/07/15 10:00:00										0.0			
BH703	28/07/15 10:01:00										0.0			
BH703	28/07/15 10:02:00										0.0			
BH703	28/07/15 10:03:00			0.1	0.0	20.2	0.0	0	0	0.0				
BH703	28/07/15 10:04:00			0.1	0.0	20.2	0.0	0	0	0.0				
BH703	28/07/15 10:05:00			0.1	0.0	20.2	0.0	0	0	0.0				
BH703	28/07/15 10:06:00			0.1	0.0	20.2	0.0	0	0	0.0				
BH703	28/07/15 10:07:00			0.1	0.0	20.2	0.0	0	0	0.0				Stable readings
BH703	28/07/15 10:08:00												4.67	
BH703	13/08/15 11:20:00	1012	0								0.0	19		
BH703	13/08/15 11:21:00										0.0			
BH703	13/08/15 11:22:00										0.0			
BH703	13/08/15 11:23:00										0.0			
BH703	13/08/15 11:24:00										0.0			
BH703	13/08/15 11:25:00			0.0	0.0	20.2	0.0	0	0	1.8				
BH703	13/08/15 11:26:00			0.0	0.0	20.2	0.0	0	0	1.6				
BH703	13/08/15 11:27:00			0.0	0.0	20.2	0.0	0	0	1.6				
BH703	13/08/15 11:28:00			0.0	0.0	20.2	0.0	0	0	1.6				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH703	13/08/15 11:29:00			0.0	0.0	20.2	0.0	0	0	1.6				
BH703	13/08/15 11:30:00			0.0	0.0	20.2	0.0	0	0	1.6				
BH703	13/08/15 11:31:00			0.0	0.0	20.2	0.0	0	0	1.7				
BH703	13/08/15 11:32:00			0.0	0.0	20.2	0.0	0	0	1.7				
BH703	13/08/15 11:33:00			0.0	0.0	20.2	0.0	0	0	1.7				
BH703	13/08/15 11:34:00			0.0	0.0	20.2	0.0	0	0	1.7			4.73	
BH703	26/08/15 09:10:00	1005	0								0.0	13		
BH703	26/08/15 09:11:00										0.0			
BH703	26/08/15 09:12:00										0.0			
BH703	26/08/15 09:13:00										0.0			
BH703	26/08/15 09:14:00										0.0			
BH703	26/08/15 09:15:00			0.3	0.0	19.2	0.0	0	0	0.0				
BH703	26/08/15 09:16:00			0.3	0.0	19.2	0.0	0	0	0.0				
BH703	26/08/15 09:17:00			0.3	0.0	19.4	0.0	0	0	0.0				
BH703	26/08/15 09:18:00			0.2	0.0	19.4	0.0	0	0	0.0				
BH703	26/08/15 09:19:00			0.2	0.0	19.4	0.0	0	0	0.0				STABLE READINGS
BH703	26/08/15 09:20:00												4.74	depth 9.43m

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH704	20/07/15 10:15:00	1015	0								0.0	19		
BH704	20/07/15 10:16:00										0.0			
BH704	20/07/15 10:17:00										0.0			
BH704	20/07/15 10:18:00										0.0			
BH704	20/07/15 10:19:00										0.0			
BH704	20/07/15 10:20:00			6.9	0.0	14.6	0.0	0	0	1.5				
BH704	20/07/15 10:21:00			7.2	0.0	14.3	0.0	0	0	1.5				
BH704	20/07/15 10:22:00			7.3	0.0	14.1	0.0	0	0	1.4				
BH704	20/07/15 10:23:00			7.4	0.0	14.0	0.0	0	0	1.3				
BH704	20/07/15 10:24:00			7.5	0.0	13.9	0.0	0	0	1.2				
BH704	20/07/15 10:25:00			7.7	0.0	13.6	0.0	0	0	1.0				
BH704	20/07/15 10:26:00			7.8	0.0	13.7	0.0	0	0	0.8				
BH704	20/07/15 10:27:00			8.0	0.0	13.6	0.0	0	0	0.7				
BH704	20/07/15 10:28:00			8.1	0.0	13.6	0.0	0	0	0.5				
BH704	20/07/15 10:29:00			8.1	0.0	13.6	0.0	0	0	0.5			4.33	
BH704	28/07/15 10:44:00	992												
BH704	28/07/15 10:45:00										0.0			
BH704	28/07/15 10:46:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH704	28/07/15 10:47:00										0.0			
BH704	28/07/15 10:48:00										0.0			
BH704	28/07/15 10:49:00										0.0			
BH704	28/07/15 10:50:00			2.2	0.0	18.3	0.0	0	0	0.4				
BH704	28/07/15 10:51:00			2.0	0.0	18.7	0.0	0	0	0.3				
BH704	28/07/15 10:52:00			1.9	0.0	18.8	0.0	0	0	0.4				
BH704	28/07/15 10:53:00			1.9	0.0	18.8	0.0	0	0	0.3				
BH704	28/07/15 10:54:00			1.9	0.0	18.8	0.0	0	0	0.1				
BH704	28/07/15 10:55:00			1.9	0.0	18.8	0.0	0	0	0.1				
BH704	28/07/15 10:56:00		Stable readings	1.9	0.0	18.8	0.0	0	0	0.1				Stable readings
BH704	28/07/15 10:57:00												4.21	
BH704	14/08/15 10:30:00	1006	3.35								0.0	21		
BH704	14/08/15 10:31:00										0.0			
BH704	14/08/15 10:32:00										0.0			
BH704	14/08/15 10:33:00										0.0			
BH704	14/08/15 10:34:00										0.0			
BH704	14/08/15 10:35:00			4.2	0.0	17.1	0.0	0	0	0.0				
BH704	14/08/15 10:36:00			5.0	0.0	16.5	0.0	0	0	0.3				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH704	14/08/15 10:37:00			5.3	0.0	16.2	0.0	0	0	0.5				
BH704	14/08/15 10:38:00			5.9	0.0	15.7	0.0	0	0	0.6				
BH704	14/08/15 10:39:00			6.6	0.0	15.2	0.0	0	0	0.6				
BH704	14/08/15 10:40:00			7.1	0.0	14.7	0.0	0	0	0.6				
BH704	14/08/15 10:41:00			7.7	0.0	14.2	0.0	0	0	0.6				
BH704	14/08/15 10:42:00			8.2	0.0	13.8	0.0	0	0	0.6				
BH704	14/08/15 10:43:00			8.5	0.0	13.7	0.0	0	0	0.5				
BH704	14/08/15 10:44:00			8.5	0.0	13.6	0.0	0	0	0.5			4.29	Insufficient water to obtain sample.
BH704	26/08/15 09:15:00	1001										16		Rain throughout day
BH704	26/08/15 09:16:00										0.0			
BH704	26/08/15 09:17:00										0.0			
BH704	26/08/15 09:18:00										0.0			
BH704	26/08/15 09:19:00										0.0			
BH704	26/08/15 09:20:00										0.0			
BH704	26/08/15 09:21:00			7.2	0.0	14.0	0.0	0	0	1.0				
BH704	26/08/15 09:22:00			7.1	0.0	14.1	0.0	0	0	0.4				
BH704	26/08/15 09:23:00			7.4	0.0	13.7	0.0	0	0	0.3				
BH704	26/08/15 09:24:00			7.7	0.0	13.5	0.0	0	0	0.0				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH704	26/08/15 09:25:00			7.8	0.0	13.4	0.0	0	0	0.0				
BH704	26/08/15 09:26:00			8.1	0.0	13.2	0.0	0	0	0.0				
BH704	26/08/15 09:27:00			8.4	0.0	12.9	0.0	0	0	0.0				
BH704	26/08/15 09:28:00			8.8	0.0	13.1	0.0	0	0	0.0				
BH704	26/08/15 09:29:00			9.2	0.0	12.5	0.0	0	0	0.0				
BH704	26/08/15 09:30:00			8.9	0.0	12.5	0.0	0	0	0.0				
BH704	26/08/15 09:31:00												4.24	Insufficient water to obtain sample.

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH705	20/07/15 09:15:00	1011	0								0.0	19		
BH705	20/07/15 09:16:00										0.0			
BH705	20/07/15 09:17:00										0.0			
BH705	20/07/15 09:18:00										0.0			
BH705	20/07/15 09:19:00										0.0			
BH705	20/07/15 09:20:00			0.6	0.0	17.4	0.0	0	0	4.2				
BH705	20/07/15 09:21:00			0.6	0.0	17.7	0.0	0	0	3.2				
BH705	20/07/15 09:22:00			0.6	0.0	18.0	0.0	0	0	2.5				
BH705	20/07/15 09:23:00			0.6	0.0	18.2	0.0	0	0	2.1				
BH705	20/07/15 09:24:00			0.6	0.0	18.4	0.0	0	0	1.6				
BH705	20/07/15 09:25:00			0.6	0.0	18.5	0.0	0	0	1.5				
BH705	20/07/15 09:26:00			0.7	0.0	18.6	0.0	0	0	1.3				
BH705	20/07/15 09:27:00			0.7	0.0	18.6	0.0	0	0	1.2				
BH705	20/07/15 09:28:00			0.7	0.0	18.7	0.0	0	0	1.1				
BH705	20/07/15 09:29:00			0.7	0.0	18.7	0.0	0	0	1.1			2.76	
BH705	28/07/15 10:40:00	1005	0								0.0	18		
BH705	28/07/15 10:41:00										0.0			
BH705	28/07/15 10:42:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH705	28/07/15 10:43:00										0.0			
BH705	28/07/15 10:44:00										0.0			
BH705	28/07/15 10:45:00			0.5	0.0	17.5	0.0	0	0	0.0				
BH705	28/07/15 10:46:00			0.5	0.0	16.9	0.0	0	0	0.0				
BH705	28/07/15 10:47:00			0.6	0.0	16.0	0.0	0	0	0.0				
BH705	28/07/15 10:48:00			0.7	0.0	15.7	0.0	0	0	0.0				
BH705	28/07/15 10:49:00			0.8	0.0	15.6	0.0	0	0	0.0				
BH705	28/07/15 10:50:00			0.9	0.0	15.7	0.0	0	0	0.0				
BH705	28/07/15 10:51:00			0.9	0.0	15.7	0.0	0	0	0.0				
BH705	28/07/15 10:52:00												2.71	
BH705	14/08/15 10:30:00	1007	0								0.0	19		
BH705	14/08/15 10:31:00										0.0			
BH705	14/08/15 10:32:00										0.0			
BH705	14/08/15 10:33:00										0.0			
BH705	14/08/15 10:34:00										0.0			
BH705	14/08/15 10:35:00			0.0	0.3	18.5	0.0	0	0	1.7				
BH705	14/08/15 10:36:00			0.0	0.3	18.5	0.0	0	0	1.4				
BH705	14/08/15 10:37:00			0.0	0.3	18.7	0.0	0	0	1.2				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH705	14/08/15 10:38:00			0.0	0.3	18.8	0.0	0	0	1.1				
BH705	14/08/15 10:39:00			0.0	0.3	18.9	0.0	0	0	1.0				
BH705	14/08/15 10:40:00			0.0	0.3	18.8	0.0	0	0	0.9				
BH705	14/08/15 10:41:00			0.0	0.4	18.8	0.0	0	0	0.8				
BH705	14/08/15 10:42:00			0.0	0.4	18.8	0.0	0	0	0.8				
BH705	14/08/15 10:43:00			0.0	0.4	18.7	0.0	0	0	0.8				
BH705	14/08/15 10:44:00			0.0	0.5	18.7	0.0	0	0	0.8			2.77	
BH705	26/08/15 09:48:00	1001										16		
BH705	26/08/15 09:49:00										0.0			
BH705	26/08/15 09:50:00										0.0			
BH705	26/08/15 09:51:00										0.0			
BH705	26/08/15 09:52:00										0.0			
BH705	26/08/15 09:53:00										0.0			
BH705	26/08/15 09:54:00			0.0	0.0	20.4	0.0	0	0	0.0				
BH705	26/08/15 09:55:00			0.0	0.0	20.4	0.0	0	0	0.0				
BH705	26/08/15 09:56:00			0.0	0.0	20.4	0.0	0	0	0.0				
BH705	26/08/15 09:57:00			0.0	0.0	20.4	0.0	0	0	0.0				
BH705	26/08/15 09:58:00			0.0	0.0	20.4	0.0	0	0	0.0				Stable readings

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH705	26/08/15 09:59:00												2.77	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH706	20/07/15 11:00:00	1012	0								0.0	19		
BH706	20/07/15 11:01:00										0.0			
BH706	20/07/15 11:02:00										0.0			
BH706	20/07/15 11:03:00										0.0			
BH706	20/07/15 11:04:00										0.0			
BH706	20/07/15 11:05:00			0.0	0.0	20.4	0.0	0	0	0.9				
BH706	20/07/15 11:06:00			0.0	0.0	20.5	0.0	0	0	0.9				
BH706	20/07/15 11:07:00			0.0	0.0	20.4	0.0	0	0	0.9				
BH706	20/07/15 11:08:00			0.0	0.0	20.4	0.0	0	0	0.9				
BH706	20/07/15 11:09:00			0.0	0.0	20.5	0.0	0	0	1.0				
BH706	20/07/15 11:10:00			0.0	0.0	20.4	0.0	0	0	1.2				
BH706	20/07/15 11:11:00			0.0	0.0	20.4	0.0	0	0	1.3				
BH706	20/07/15 11:12:00			0.0	0.0	20.3	0.0	0	0	1.5				
BH706	20/07/15 11:13:00			0.0	0.0	20.3	0.0	0	0	1.6				
BH706	20/07/15 11:14:00			0.0	0.0	20.3	0.0	0	0	1.6			6.43	
BH706	28/07/15 11:40:00	1005	0								0.0	18		
BH706	28/07/15 11:41:00										0.0			
BH706	28/07/15 11:42:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH706	28/07/15 11:43:00										0.0			
BH706	28/07/15 11:44:00										0.0			
BH706	28/07/15 11:45:00			0.2	0.0	19.7	0.0	0	0	0.0				
BH706	28/07/15 11:46:00			0.1	0.0	19.7	0.0	0	0	0.0				
BH706	28/07/15 11:47:00			0.0	0.0	19.8	0.0	0	0	0.0				
BH706	28/07/15 11:48:00			0.0	0.0	19.8	0.0	0	0	0.0				
BH706	28/07/15 11:49:00			0.0	0.0	19.8	0.0	0	0	0.0				
BH706	28/07/15 11:50:00													
BH706	28/07/15 11:51:00													
BH706	28/07/15 11:52:00												6.40	
BH706	14/08/15 09:00:00	1007	2.25								0.0	19		
BH706	14/08/15 09:01:00										0.0			
BH706	14/08/15 09:02:00										0.0			
BH706	14/08/15 09:03:00										0.0			
BH706	14/08/15 09:04:00										0.0			
BH706	14/08/15 09:05:00			0.0	0.1	20.7	0.0	0	0	0.0				
BH706	14/08/15 09:06:00			0.0	0.0	20.7	0.0	0	0	0.0				
BH706	14/08/15 09:07:00			0.0	0.0	20.7	0.0	0	0	0.3				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH706	14/08/15 09:08:00			0.0	0.0	20.7	0.0	0	0	0.4				
BH706	14/08/15 09:09:00			0.0	0.0	20.7	0.0	0	0	0.5				
BH706	14/08/15 09:10:00			0.0	0.0	20.7	0.0	0	0	0.5				
BH706	14/08/15 09:11:00			0.0	0.0	20.7	0.0	0	0	0.6				
BH706	14/08/15 09:12:00			0.0	0.0	20.7	0.0	0	0	0.7				
BH706	14/08/15 09:13:00			0.0	0.0	20.7	0.0	0	0	0.5				
BH706	14/08/15 09:14:00			0.0	0.0	20.7	0.0	0	0	0.7			6.46	
BH706	26/08/15 09:50:00	1004									0.0	13		
BH706	26/08/15 09:51:00										0.0			
BH706	26/08/15 09:52:00										0.0			
BH706	26/08/15 09:53:00										0.0			
BH706	26/08/15 09:54:00										0.0			
BH706	26/08/15 09:55:00			0.1	0.0	19.7	0.0	0	0	0.0				
BH706	26/08/15 09:56:00			0.1	0.0	19.6	0.0	0	0	0.0				
BH706	26/08/15 09:57:00			0.0	0.0	19.7	0.0	0	0	0.0				
BH706	26/08/15 09:58:00			0.0	0.0	19.7	0.0	0	0	0.0				
BH706	26/08/15 09:59:00			0.0	0.0	19.7	0.0	0	0	0.0				STABLE READINGS
BH706	26/08/15 10:00:00												6.43	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH707	20/07/15 12:00:00	1012	0								0.0	19		
BH707	20/07/15 12:01:00										0.0			
BH707	20/07/15 12:02:00										0.0			
BH707	20/07/15 12:03:00										0.0			
BH707	20/07/15 12:04:00										0.0			
BH707	20/07/15 12:05:00			1.4	0.0	5.7	0.0	0	0	1.7				
BH707	20/07/15 12:06:00			1.2	0.0	7.1	0.0	0	0	1.5				
BH707	20/07/15 12:07:00			1.1	0.0	8.0	0.0	0	0	1.4				
BH707	20/07/15 12:08:00			1.1	0.0	8.1	0.0	0	0	1.4				
BH707	20/07/15 12:09:00			1.1	0.0	8.1	0.0	0	0	1.4				
BH707	20/07/15 12:10:00			1.1	0.0	8.1	0.0	0	0	1.4				
BH707	20/07/15 12:11:00			1.1	0.0	8.0	0.0	0	0	1.4				
BH707	20/07/15 12:12:00			1.1	0.0	7.8	0.0	0	0	1.4				
BH707	20/07/15 12:13:00			1.1	0.0	7.8	0.0	0	0	1.4				
BH707	20/07/15 12:14:00			1.1	0.0	7.8	0.0	0	0	1.3			11.03	
BH707	28/07/15 12:15:00	1004									0.0	18		
BH707	28/07/15 12:16:00										0.0			
BH707	28/07/15 12:17:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH707	28/07/15 12:18:00										0.0			
BH707	28/07/15 12:19:00										0.0			
BH707	28/07/15 12:20:00			0.8	0.0	18.3	0.0	0	0	0.0				
BH707	28/07/15 12:21:00			0.8	0.0	18.2	0.0	0	0	0.0				
BH707	28/07/15 12:22:00			0.7	0.0	18.2	0.0	0	0	0.0				
BH707	28/07/15 12:23:00			0.7	0.0	18.1	0.0	0	0	0.0				
BH707	28/07/15 12:24:00			0.7	0.0	18.1	0.0	0	0	0.0				
BH707	28/07/15 12:25:00													
BH707	28/07/15 12:26:00													
BH707	28/07/15 12:27:00												11.02	
BH707	14/08/15 09:25:00	1007	0								0.0	19		
BH707	14/08/15 09:26:00										0.0			
BH707	14/08/15 09:27:00										0.0			
BH707	14/08/15 09:28:00										0.0			
BH707	14/08/15 09:29:00										0.0			
BH707	14/08/15 09:30:00			0.0	4.9	7.7	0.0	0	0	2.3				
BH707	14/08/15 09:31:00			0.0	4.9	7.7	0.0	0	0	2.2				
BH707	14/08/15 09:32:00			0.0	3.6	7.6	0.0	0	0	1.8				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH707	14/08/15 09:33:00			0.0	3.7	7.7	0.0	0	0	18.0				
BH707	14/08/15 09:34:00			0.0	3.7	7.5	0.0	0	0	1.7				
BH707	14/08/15 09:35:00			0.0	3.7	7.4	0.0	0	0	1.7				
BH707	14/08/15 09:36:00			0.0	3.7	7.5	0.0	0	0	1.7				
BH707	14/08/15 09:37:00			0.0	3.7	7.2	0.0	0	0	1.7				
BH707	14/08/15 09:38:00			0.0	3.8	7.4	0.0	0	0	1.6				
BH707	14/08/15 09:39:00			0.0	3.8	7.5	0.0	0	0	1.6			11.03	
BH707	26/08/15 10:15:00	1004									0.0	13		
BH707	26/08/15 10:16:00										0.0			
BH707	26/08/15 10:17:00										0.0			
BH707	26/08/15 10:18:00										0.0			
BH707	26/08/15 10:19:00										0.0			
BH707	26/08/15 10:20:00			2.5	0.0	10.8	0.0	0	0	0.0				
BH707	26/08/15 10:21:00			2.8	0.0	10.1	0.0	0	0	0.0				
BH707	26/08/15 10:22:00			3.0	0.0	9.5	0.0	0	0	0.0				
BH707	26/08/15 10:23:00			3.1	0.0	9.3	0.0	0	0	0.0				
BH707	26/08/15 10:24:00			3.1	0.0	9.1	0.0	0	0	0.0				
BH707	26/08/15 10:25:00			3.1	0.0	9.1	0.0	0	0	0.0				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH707	26/08/15 10:26:00			3.1	0.0	9.1	0.0	0	0	0.0				
BH707	26/08/15 10:27:00			3.1	0.0	9.1	0.0	0	0	0.0				
BH707	26/08/15 10:28:00			3.1	0.0	9.1	0.0	0	0	0.0				
BH707	26/08/15 10:29:00			3.1	0.0	9.1	0.0	0	0	0.0				
BH707	26/08/15 10:30:00												11.05	depth 19.22m

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH708	20/07/15 13:00:00	1012	0								0.0	20		
BH708	20/07/15 13:01:00										0.0			
BH708	20/07/15 13:02:00										0.0			
BH708	20/07/15 13:03:00										0.0			
BH708	20/07/15 13:04:00										0.0			
BH708	20/07/15 13:05:00			0.3	0.0	19.0	0.0	0	4	2.1				
BH708	20/07/15 13:06:00			0.3	0.0	19.1	0.0	0	4	2.0				
BH708	20/07/15 13:07:00			0.3	0.0	19.1	0.0	0	4	2.1				
BH708	20/07/15 13:08:00			0.3	0.0	19.0	0.0	0	4	2.3				
BH708	20/07/15 13:09:00			0.3	0.0	19.0	0.0	0	4	2.4				
BH708	20/07/15 13:10:00			0.3	0.0	19.0	0.0	0	4	2.4				
BH708	20/07/15 13:11:00			0.3	0.0	19.0	0.0	0	4	2.5				
BH708	20/07/15 13:12:00			0.3	0.0	18.9	0.0	0	3	2.5				
BH708	20/07/15 13:13:00			0.3	0.0	18.9	0.0	0	4	2.5				
BH708	20/07/15 13:14:00			0.3	0.0	18.9	0.0	0	3	2.5			16.03	
BH708	28/07/15 11:36:00	992										16		
BH708	28/07/15 11:37:00										0.0			
BH708	28/07/15 11:38:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH708	28/07/15 11:39:00										0.0			
BH708	28/07/15 11:40:00										0.0			
BH708	28/07/15 11:41:00										0.0			
BH708	28/07/15 11:42:00			2.3	0.0	12.1	0.0	0	0	5.8				
BH708	28/07/15 11:43:00			2.3	0.0	11.9	0.0	0	0	4.3				
BH708	28/07/15 11:44:00			2.3	0.0	11.9	0.0	0	0	4.1				
BH708	28/07/15 11:45:00			2.3	0.0	11.9	0.0	0	0	5.4				
BH708	28/07/15 11:46:00			2.2	0.0	11.7	0.0	0	0	3.5				
BH708	28/07/15 11:47:00			2.3	0.0	12.0	0.0	0	0	2.7				
BH708	28/07/15 11:48:00			2.3	0.0	11.7	0.0	0	0	3.3				
BH708	28/07/15 11:49:00			2.3	0.0	11.8	0.0	0	0	3.1				
BH708	28/07/15 11:50:00			2.3	0.0	11.6	0.0	0	0	2.0				
BH708	28/07/15 11:51:00			2.3	0.0	11.6	0.0	0	0	2.0				
BH708	28/07/15 11:52:00												16.02	
BH708	13/08/15 12:15:00	1007	-0.02								0.0	18		
BH708	13/08/15 12:16:00										0.0			
BH708	13/08/15 12:17:00										0.0			
BH708	13/08/15 12:18:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH708	13/08/15 12:19:00										0.0			
BH708	13/08/15 12:20:00			1.2	0.0	16.3	0.0	0	0	2.5				
BH708	13/08/15 12:21:00			1.2	0.0	16.2	0.0	0	0	2.5				
BH708	13/08/15 12:22:00			1.2	0.0	16.2	0.0	0	0	2.4				
BH708	13/08/15 12:23:00			1.2	0.0	16.2	0.0	0	0	2.5				
BH708	13/08/15 12:24:00			1.2	0.0	16.1	0.0	0	0	2.4				
BH708	13/08/15 12:25:00			1.2	0.0	16.1	0.0	0	0	2.4				
BH708	13/08/15 12:26:00			1.3	0.0	16.1	0.0	0	0	2.3				
BH708	13/08/15 12:27:00			1.3	0.0	16.1	0.0	0	0	2.2				
BH708	13/08/15 12:28:00			1.3	0.0	16.0	0.0	0	0	2.2				
BH708	13/08/15 12:29:00			1.3	0.0	16.0	0.0	0	0	2.1			16.12	
BH708	26/08/15 11:05:00	1000										16		
BH708	26/08/15 11:06:00		0								0.0			
BH708	26/08/15 11:07:00		9								0.6			
BH708	26/08/15 11:08:00		16								0.5			
BH708	26/08/15 11:09:00		4								1.6			
BH708	26/08/15 11:10:00		2								0.6			
BH708	26/08/15 11:11:00			4.1	0.0	8.7	0.0	0	0	0.0				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
BH708	26/08/15 11:12:00			4.0	0.0	9.1	0.0	0	0	0.3				
BH708	26/08/15 11:13:00			4.1	0.0	8.6	0.0	0	0	0.0				
BH708	26/08/15 11:14:00			4.1	0.0	8.6	0.0	0	0	0.0				
BH708	26/08/15 11:15:00			4.1	0.0	8.6	0.0	0	0	0.0				
BH708	26/08/15 11:16:00			4.0	0.0	8.6	0.0	0	0	0.0				
BH708	26/08/15 11:17:00			4.1	0.0	8.5	0.0	0	0	0.0				
BH708	26/08/15 11:18:00			4.0	0.0	8.9	0.0	0	0	0.8				
BH708	26/08/15 11:19:00			4.0	0.0	9.0	0.0	0	0	0.7				
BH708	26/08/15 11:20:00			4.0	0.0	9.0	0.0	0	0	0.9				
BH708	26/08/15 11:21:00												15.93	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
SW01	12/08/15 10:30:00													

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
SW02	12/08/15 11:40:00													

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
SW03	12/08/15 10:00:00													

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
SW04	12/08/15 11:30:00													

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
SW05	12/08/15 11:10:00													

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS101	15/07/15 10:00:00	1018	-0.02								0.0	20		
WS101	15/07/15 10:01:00										0.0			
WS101	15/07/15 10:02:00										0.0			
WS101	15/07/15 10:03:00										0.0			
WS101	15/07/15 10:04:00										0.0			
WS101	15/07/15 10:05:00			0.0	0.1	19.2	2.0	0	0	3.6				
WS101	15/07/15 10:06:00			0.0	0.1	19.3	2.0	0	0	3.7				
WS101	15/07/15 10:07:00			0.0	0.1	19.3	2.0	0	0	3.7				
WS101	15/07/15 10:08:00			0.0	0.1	19.3	2.0	0	0	3.6				
WS101	15/07/15 10:09:00			0.0	0.1	19.3	2.0	0	0	3.6				
WS101	15/07/15 10:10:00			0.0	0.1	19.3	2.0	0	0	3.5				
WS101	15/07/15 10:11:00			0.0	0.1	19.3	2.0	0	0	3.4				
WS101	15/07/15 10:12:00			0.0	0.1	19.4	2.0	0	0	3.3				
WS101	15/07/15 10:13:00			0.0	0.1	19.4	1.0	0	0	3.3				
WS101	15/07/15 10:14:00			0.0	0.1	19.4	1.0	0	0	3.3			3.31	
WS101	29/07/15 12:10:00	1009	0								0.0	18		
WS101	29/07/15 12:11:00										0.0			
WS101	29/07/15 12:12:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS101	29/07/15 12:13:00										0.0			
WS101	29/07/15 12:14:00										0.0			
WS101	29/07/15 12:15:00			0.0	0.0	18.8	0.0	0	0	0.0				
WS101	29/07/15 12:16:00			0.0	0.0	18.8	0.0	0	0	0.0				
WS101	29/07/15 12:17:00			0.0	0.0	18.8	0.0	0	0	0.0				
WS101	29/07/15 12:18:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS101	29/07/15 12:19:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS101	29/07/15 12:20:00												3.65	
WS101	12/08/15 10:00:00	1026	0								0.0	17		
WS101	12/08/15 10:01:00										0.0			
WS101	12/08/15 10:02:00										0.0			
WS101	12/08/15 10:03:00										0.0			
WS101	12/08/15 10:04:00										0.0			
WS101	12/08/15 10:05:00			0.0	0.2	19.9	3.0	0	0	1.8				
WS101	12/08/15 10:06:00			0.0	0.2	19.9	3.0	0	0	1.6				
WS101	12/08/15 10:07:00			0.0	0.2	19.8	3.0	0	0	1.5				
WS101	12/08/15 10:08:00			0.0	0.2	19.8	3.0	0	0	1.3				
WS101	12/08/15 10:09:00			0.0	0.2	19.8	3.0	0	0	1.3				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS101	12/08/15 10:10:00			0.0	0.2	19.8	3.0	0	0	1.3				
WS101	12/08/15 10:11:00			0.0	0.2	19.7	3.0	0	0	1.3				
WS101	12/08/15 10:12:00			0.0	0.2	19.8	3.0	0	0	1.3				
WS101	12/08/15 10:13:00			0.0	0.2	19.7	3.0	0	0	1.2				
WS101	12/08/15 10:14:00			0.0	0.2	19.7	3.0	0	0	1.2			3.66	
WS101	26/08/15 16:00:00	1003	0								0.0	13		
WS101	26/08/15 16:01:00										0.0			
WS101	26/08/15 16:02:00										0.0			
WS101	26/08/15 16:03:00										0.0			
WS101	26/08/15 16:04:00										0.0			
WS101	26/08/15 16:05:00			0.0	0.0	18.8	0.0	0	0	0.0				
WS101	26/08/15 16:06:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS101	26/08/15 16:07:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS101	26/08/15 16:08:00			0.0	0.0	18.6	0.0	0	0	0.0				
WS101	26/08/15 16:09:00			0.0	0.0	18.6	0.0	0	0	0.0				STABLE READINGS
WS101	26/08/15 16:10:00												3.78	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS102	14/07/15 10:00:00	1018	-0.23								0.0	21		
WS102	14/07/15 10:01:00										0.0			
WS102	14/07/15 10:02:00										0.0			
WS102	14/07/15 10:03:00										0.0			
WS102	14/07/15 10:04:00										0.0			
WS102	14/07/15 10:05:00			0.0	0.0	18.0	0.0	0	1	4.3				
WS102	14/07/15 10:06:00			0.0	0.0	18.0	0.0	0	0	4.0				
WS102	14/07/15 10:07:00			0.0	0.0	18.0	0.0	0	0	3.8				
WS102	14/07/15 10:08:00			0.0	0.0	18.0	0.0	0	0	3.6				
WS102	14/07/15 10:09:00			0.0	0.0	18.0	0.0	0	0	3.0				
WS102	14/07/15 10:10:00			0.0	0.0	18.0	0.0	0	0	3.0				
WS102	14/07/15 10:11:00			0.0	0.0	18.0	0.0	0	0	3.0				
WS102	14/07/15 10:12:00			0.0	0.0	18.0	0.0	0	0	2.9				
WS102	14/07/15 10:13:00			0.0	0.0	18.1	0.0	0	0	2.8				
WS102	14/07/15 10:14:00			0.0	0.0	18.1	0.0	0	0	2.7			3.29	
WS102	29/07/15 12:10:00	1002										17		
WS102	29/07/15 12:11:00										0.0			
WS102	29/07/15 12:12:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS102	29/07/15 12:13:00										0.0			
WS102	29/07/15 12:14:00										0.0			
WS102	29/07/15 12:15:00										0.0			
WS102	29/07/15 12:16:00			0.0	0.0	19.2	0.0	0	0	0.0				
WS102	29/07/15 12:17:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS102	29/07/15 12:18:00			0.0	0.0	18.6	0.0	0	0	0.0				
WS102	29/07/15 12:19:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS102	29/07/15 12:20:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS102	29/07/15 12:21:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS102	29/07/15 12:22:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS102	29/07/15 12:23:00			0.0	0.0	18.7	0.0	0	0	0.0				
WS102	29/07/15 12:24:00												3.49	
WS102	12/08/15 11:00:00	1020	0								0.0	19		
WS102	12/08/15 11:01:00										0.0			
WS102	12/08/15 11:02:00										0.0			
WS102	12/08/15 11:03:00										0.0			
WS102	12/08/15 11:04:00										0.0			
WS102	12/08/15 11:05:00			0.0	0.0	20.6	0.0	0	0	1.9				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS102	12/08/15 11:06:00			0.0	0.0	20.5	0.0	0	0	1.3				
WS102	12/08/15 11:07:00			0.0	0.0	20.4	0.0	0	0	1.1				
WS102	12/08/15 11:08:00			0.0	0.0	20.4	0.0	0	0	1.0				
WS102	12/08/15 11:09:00			0.0	0.0	20.3	0.0	0	0	0.9				
WS102	12/08/15 11:10:00			0.0	0.0	20.1	0.0	0	0	0.9				
WS102	12/08/15 11:11:00			0.0	0.0	20.0	0.0	0	0	0.8				
WS102	12/08/15 11:12:00			0.0	0.0	19.9	0.0	0	0	0.8				
WS102	12/08/15 11:13:00			0.0	0.0	19.8	0.0	0	0	0.8				
WS102	12/08/15 11:14:00			0.0	0.0	19.7	0.0	0	0	0.7			3.98	
WS102	26/08/15 15:53:00	1000										17		
WS102	26/08/15 15:54:00										0.0			
WS102	26/08/15 15:55:00										0.0			
WS102	26/08/15 15:56:00										0.0			
WS102	26/08/15 15:57:00										0.0			
WS102	26/08/15 15:58:00										0.0			
WS102	26/08/15 15:59:00			0.0	0.0	18.4	0.0	0	0	0.0				
WS102	26/08/15 16:00:00			0.0	0.0	18.3	0.0	0	0	0.0				
WS102	26/08/15 16:01:00			0.0	0.0	18.3	0.0	0	0	0.0				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS102	26/08/15 16:02:00			0.0	0.0	18.1	0.0	0	0	0.0				
WS102	26/08/15 16:03:00			0.0	0.0	18.1	0.0	0	0	0.0				
WS102	26/08/15 16:04:00			0.0	0.0	18.0	0.0	0	0	0.0				
WS102	26/08/15 16:05:00			0.0	0.0	18.0	0.0	0	0	0.0				
WS102	26/08/15 16:06:00			0.0	0.0	18.0	0.0	0	0	0.0				
WS102	26/08/15 16:07:00			0.0	0.0	18.0	0.0	0	0	0.0				
WS102	26/08/15 16:08:00			0.0	0.0	18.0	0.0	0	0	0.0				
WS102	26/08/15 16:09:00												3.54	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

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GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS202	14/07/15 13:15:00	1017	0.01								0.0	20		
WS202	14/07/15 13:16:00										0.0			
WS202	14/07/15 13:17:00										0.0			
WS202	14/07/15 13:18:00										0.0			
WS202	14/07/15 13:19:00										0.0			
WS202	14/07/15 13:20:00			0.0	0.3	15.9	5.0	0	6	3.8				
WS202	14/07/15 13:21:00			0.0	0.3	15.9	5.0	0	6	3.9				
WS202	14/07/15 13:22:00			0.0	0.3	15.9	5.0	0	6	4.0				
WS202	14/07/15 13:23:00			0.0	0.3	16.0	5.0	0	6	3.9				
WS202	14/07/15 13:24:00			0.0	0.3	16.0	5.0	0	6	3.8				
WS202	14/07/15 13:25:00			0.0	0.3	16.1	5.0	0	6	3.8				
WS202	14/07/15 13:26:00			0.0	0.3	16.2	5.0	0	6	3.7				
WS202	14/07/15 13:27:00			0.0	0.3	16.3	5.0	0	6	3.6				
WS202	14/07/15 13:28:00			0.0	0.2	16.5	4.0	0	5	3.5				
WS202	14/07/15 13:29:00			0.0	0.2	16.6	4.0	0	5	3.5			7.65	
WS202	29/07/15 10:30:00	1009	0								0.0	18		
WS202	29/07/15 10:31:00										0.0			
WS202	29/07/15 10:32:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS202	29/07/15 10:33:00										0.0			
WS202	29/07/15 10:34:00										0.0			
WS202	29/07/15 10:35:00			0.0	0.0	16.3	0.0	0	0	0.0				
WS202	29/07/15 10:36:00			0.0	0.0	16.2	0.0	0	0	0.0				
WS202	29/07/15 10:37:00			0.0	0.0	16.2	0.0	0	0	0.0				
WS202	29/07/15 10:38:00			0.0	0.0	16.3	0.0	0	0	0.0				
WS202	29/07/15 10:39:00			0.0	0.0	16.3	0.0	0	0	0.0				
WS202	29/07/15 10:40:00												7.26	
WS202	12/08/15 12:00:00	1023	-0.12								0.0	18		
WS202	12/08/15 12:01:00										0.0			
WS202	12/08/15 12:02:00										0.0			
WS202	12/08/15 12:03:00										0.0			
WS202	12/08/15 12:04:00										0.0			
WS202	12/08/15 12:05:00			0.3	0.0	17.7	0.0	5	5	2.5				
WS202	12/08/15 12:06:00			0.3	0.0	17.8	0.0	55	5	2.5				
WS202	12/08/15 12:07:00			0.3	0.0	17.8	0.0	5	5	2.5				
WS202	12/08/15 12:08:00			0.3	0.0	17.8	0.0	5	5	2.6				
WS202	12/08/15 12:09:00			0.3	0.0	17.9	0.0	5	5	2.6				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS202	12/08/15 12:10:00			0.3	0.0	17.9	0.0	5	5	2.5				
WS202	12/08/15 12:11:00			0.3	0.0	17.9	0.0	5	5	2.6				
WS202	12/08/15 12:12:00			0.3	0.0	18.0	0.0	6	5	2.6				
WS202	12/08/15 12:13:00			0.2	0.0	18.1	0.0	5	4	2.6				
WS202	12/08/15 12:14:00			0.2	0.0	18.2	0.0	5	4	2.8			7.95	
WS202	26/08/15 15:15:00	1002	0								0.0	13		
WS202	26/08/15 15:16:00										0.0			
WS202	26/08/15 15:17:00										0.0			
WS202	26/08/15 15:18:00										0.0			
WS202	26/08/15 15:19:00										0.0			
WS202	26/08/15 15:20:00			0.0	0.0	16.9	0.0	0	0	0.0				
WS202	26/08/15 15:21:00			0.0	0.0	16.8	0.0	0	0	0.0				
WS202	26/08/15 15:22:00			0.0	0.0	16.7	0.0	0	0	0.0				
WS202	26/08/15 15:23:00			0.0	0.0	16.6	0.0	0	0	0.0				
WS202	26/08/15 15:24:00			0.0	0.0	16.6	0.0	0	0	0.0				STABLE READINGS
WS202	26/08/15 15:25:00												7.16	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS203	14/07/15 12:15:00	1019	-0.17								0.0	20		
WS203	14/07/15 12:16:00										0.0			
WS203	14/07/15 12:17:00										0.0			
WS203	14/07/15 12:18:00										0.0			
WS203	14/07/15 12:19:00										0.0			
WS203	14/07/15 12:20:00			0.0	2.4	19.6	45.0	0	16	2.0				
WS203	14/07/15 12:21:00			0.0	2.0	19.7	39.0	0	14	1.9				
WS203	14/07/15 12:22:00			0.0	1.8	19.8	35.0	0	12	1.8				
WS203	14/07/15 12:23:00			0.0	1.6	19.8	31.0	0	11	1.9				
WS203	14/07/15 12:24:00			0.0	1.4	19.9	28.0	0	10	1.9				
WS203	14/07/15 12:25:00			0.0	1.3	19.9	25.0	0	8	2.1				
WS203	14/07/15 12:26:00			0.0	1.2	19.9	24.0	0	8	2.7				
WS203	14/07/15 12:27:00			0.0	1.2	19.9	23.0	0	7	3.0				
WS203	14/07/15 12:28:00			0.0	1.1	19.9	20.0	0	6	3.0				
WS203	14/07/15 12:29:00			0.0	1.0	20.0	19.0	0	5	2.9			1.14	
WS203	29/07/15 10:45:00	1004										17		
WS203	29/07/15 10:46:00										0.0			
WS203	29/07/15 10:47:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS203	29/07/15 10:48:00										0.0			
WS203	29/07/15 10:49:00										0.0			
WS203	29/07/15 10:50:00										0.0			
WS203	29/07/15 10:51:00													
WS203	29/07/15 10:52:00			0.0	1.3	20.1	29.3	0	0	0.0				Peak CH4 = 2%
WS203	29/07/15 10:53:00			0.1	1.2	20.1	28.4	0	0	0.0				
WS203	29/07/15 10:54:00			0.1	0.6	20.3	13.7	0	0	0.0				
WS203	29/07/15 10:55:00			0.1	0.0	20.4	1.8	0	0	0.0				
WS203	29/07/15 10:56:00			0.1	0.0	20.4	0.0	0	0	0.0				
WS203	29/07/15 10:57:00			0.1	0.0	20.4	0.0	0	0	0.0				
WS203	29/07/15 10:58:00			0.1	0.0	20.4	0.0	0	0	0.0				
WS203	29/07/15 10:59:00			0.1	0.0	20.4	0.0	0	0	0.0				
WS203	29/07/15 11:00:00			0.1	0.0	20.4	0.0	0	0	0.0				
WS203	29/07/15 11:01:00			0.1	0.0	20.5	0.0	0	0	0.0				
WS203	29/07/15 11:02:00												1.23	
WS203	12/08/15 12:00:00	1020	0								0.0	20		
WS203	12/08/15 12:01:00										0.0			
WS203	12/08/15 12:02:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS203	12/08/15 12:03:00										0.0			
WS203	12/08/15 12:04:00										0.0			
WS203	12/08/15 12:05:00			0.0	0.0	20.7	0.0	0	0	2.2				
WS203	12/08/15 12:06:00			0.0	0.0	20.6	0.0	0	0	1.9				
WS203	12/08/15 12:07:00			0.0	0.0	20.6	0.0	0	0	1.8				
WS203	12/08/15 12:08:00			0.0	0.0	20.6	0.0	0	0	1.7				
WS203	12/08/15 12:09:00			0.0	0.0	20.6	0.0	0	0	1.6				
WS203	12/08/15 12:10:00			0.0	0.0	20.6	0.0	0	0	1.6				
WS203	12/08/15 12:11:00			0.0	0.0	20.6	0.0	0	0	1.5				
WS203	12/08/15 12:12:00			0.0	0.0	20.5	0.0	0	0	1.4				
WS203	12/08/15 12:13:00			0.0	0.0	20.5	0.0	0	0	1.5				
WS203	12/08/15 12:14:00			0.0	0.0	20.6	0.0	0	0	1.5			1.56	
WS203	26/08/15 15:20:00	1000										17		
WS203	26/08/15 15:21:00										0.0			
WS203	26/08/15 15:22:00										0.0			
WS203	26/08/15 15:23:00										0.0			
WS203	26/08/15 15:24:00										0.0			
WS203	26/08/15 15:25:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

CHECKED **EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS203	26/08/15 15:26:00			0.0	5.7	18.7	#	0	0	0.0				
WS203	26/08/15 15:27:00			0.0	4.2	19.2	96.5	0	0	0.0				
WS203	26/08/15 15:28:00			0.0	4.2	19.2	96.5	0	0	0.0				
WS203	26/08/15 15:29:00			0.0	4.3	19.2	97.8	0	0	0.0				
WS203	26/08/15 15:30:00			0.0	4.4	19.2	#	0	0	0.0				
WS203	26/08/15 15:31:00			0.0	2.9	19.5	64.0	0	0	0.0				
WS203	26/08/15 15:32:00			0.0	3.1	19.5	67.3	0	0	0.0				
WS203	26/08/15 15:33:00			0.0	3.3	19.4	72.0	0	0	0.0				
WS203	26/08/15 15:34:00			0.0	3.4	19.4	76.1	0	0	0.0				
WS203	26/08/15 15:35:00			0.0	3.4	19.4	78.9	0	0	0.0				
WS203	26/08/15 15:36:00												1.27	

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT	CHECKED
30766	**EC**

Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS204	15/07/15 12:30:00	1016	0.56								0.0	23		
WS204	15/07/15 12:31:00										0.0			
WS204	15/07/15 12:32:00										0.0			
WS204	15/07/15 12:33:00										0.0			
WS204	15/07/15 12:34:00										0.0			
WS204	15/07/15 12:35:00			0.0	0.1	15.5	2.0	0	3	5.0				
WS204	15/07/15 12:36:00			0.0	0.1	15.4	2.0	0	3	5.2				
WS204	15/07/15 12:37:00			0.0	0.1	15.4	2.0	0	3	5.2				
WS204	15/07/15 12:38:00			0.0	0.1	15.5	2.0	0	3	5.0				
WS204	15/07/15 12:39:00			0.0	0.1	15.6	2.0	0	2	4.8				
WS204	15/07/15 12:40:00			0.0	0.1	15.9	2.0	0	2	4.6				
WS204	15/07/15 12:41:00			0.0	0.1	16.5	2.0	0	2	4.2				
WS204	15/07/15 12:42:00			0.0	0.1	17.7	1.0	0	1	3.6				
WS204	15/07/15 12:43:00			0.0	0.1	18.9	1.0	0	0	3.0				
WS204	15/07/15 12:44:00			0.0	0.1	19.0	1.0	0	0	3.0			Dry	
WS204	29/07/15 09:30:00	1009	0								0.0	18		
WS204	29/07/15 09:31:00										0.0			
WS204	29/07/15 09:32:00										0.0			

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS204	29/07/15 09:33:00										0.0			
WS204	29/07/15 09:34:00										0.0			
WS204	29/07/15 09:35:00			0.0	0.0	17.8	0.0	0	0	0.0				
WS204	29/07/15 09:36:00			0.0	0.0	17.8	0.0	0	0	0.0				
WS204	29/07/15 09:37:00			0.0	0.0	17.8	0.0	0	0	0.0				
WS204	29/07/15 09:38:00			0.0	0.0	17.7	0.0	0	0	0.0				
WS204	29/07/15 09:39:00			0.0	0.0	17.7	0.0	0	0	0.0				
WS204	29/07/15 09:40:00												Dry	
WS204	13/08/15 09:30:00	1016	-0.69								0.0	20		
WS204	13/08/15 09:31:00										0.0			
WS204	13/08/15 09:32:00										0.0			
WS204	13/08/15 09:33:00										0.0			
WS204	13/08/15 09:34:00										0.0			
WS204	13/08/15 09:35:00			0.2	0.0	14.0	0.0	4	3	2.1				
WS204	13/08/15 09:36:00			0.2	0.0	13.3	0.0	4	4	1.8				
WS204	13/08/15 09:37:00			0.2	0.0	12.8	0.0	5	4	1.8				
WS204	13/08/15 09:38:00			0.2	0.0	12.3	0.0	5	4	1.8				
WS204	13/08/15 09:39:00			0.2	0.0	11.8	0.0	5	4	1.9				

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

CONTRACT **30766**

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Geotechnical Engineering Limited

GAS AND GROUNDWATER LEVELS

CLIENT: LONDON RESORT COMPANY HOLDINGS LTD

SITE: LONDON PARAMOUNT ENTERTAINMENT RESORT

Borehole /trial pit no.	date and time	barometric pressure (mb)	pressure differentiation (mm H_2O)	carbon dioxide (%)	methane (%)	oxygen (%)	LEL (%)	hydrogen sulphide (ppm)	carbon monoxide (ppm)	VOC (ppm)	gas flow (ltr/hr)	temperature (°C)	water level (m - bgl)	remarks
WS204	13/08/15 09:40:00			0.3	0.0	11.0	0.0	5	5	1.9				
WS204	13/08/15 09:41:00			0.3	0.0	10.8	0.0	5	5	2.0				
WS204	13/08/15 09:42:00			0.3	0.0	10.6	0.0	5	5	2.0				
WS204	13/08/15 09:43:00			0.3	0.0	11.7	0.0	4	4	2.0				
WS204	13/08/15 09:44:00			0.2	0.0	13.2	0.0	2	4	1.9			DRY	
WS204	26/08/15 14:30:00	1002	0								0.0	13		initial flow: -1.1
WS204	26/08/15 14:31:00										0.0			
WS204	26/08/15 14:32:00										0.0			
WS204	26/08/15 14:33:00										0.0			
WS204	26/08/15 14:34:00										0.0			
WS204	26/08/15 14:35:00			0.0	0.0	15.2	0.0	0	0	0.0				
WS204	26/08/15 14:36:00			0.0	0.0	14.2	0.0	0	0	0.0				
WS204	26/08/15 14:37:00			0.0	0.0	14.1	0.0	0	0	0.0				
WS204	26/08/15 14:38:00			0.0	0.0	14.0	0.0	0	0	0.0				
WS204	26/08/15 14:39:00			0.0	0.0	14.0	0.0	0	0	0.0				STABLE READINGS
WS204	26/08/15 14:40:00												DRY	depth: 8.57m

remarks
# denotes result exceeding capacity of gas monitoring equipment
VOC - Photoionisation Detector Mini RAE 2000 measures VOC vapours with 10.6eV lamp calibrated against isobutylene.

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APPENDIX B

LABORATORY TESTING

2718

GEOTECHNICAL ENGINEERING LIMITED

Version No.	1
For the attention of Chris Yates/Emma Leivers	Page No. 1 of 191
	Date of Issue 13/10/2015

TEST REPORT

PROJECT/SITE	London Paramount Entertainment Resort	Samples received	15/07/2015
GEL REPORT NUMBER	30766	Schedule received	15/07/2015
Your ref/PO:	0	Testing commenced	04/08/2015
Test report refers to	All schedules combined	Status	Final

SUMMARY OF RESULTS ATTACHED

TEST METHOD & DESCRIPTION	QUANTITY	ACCREDITED TEST
BS1377: Part 2: 1990:3.3, Saturation Moisture Content	17	YES
BS1377: Part 2: 1990:3.3, Saturation Moisture Content (Subcontracted)	2	YES
BS EN ISO 17892-1: 2014:5. Water Content	81	YES
BS1377: Part 2: 1990:3.2, Moisture Content (Subcontracted)	47	YES
BS1377: Part 2: 1990:4.2-4.4&5.2-5.4, Liquid & Plastic Limits	51	YES
BS1377: Part 2: 1990:4.5-4.6&5.2-5.4, Liquid (Casagrande Method) & Plastic Limits	1	YES
BS1377: Part 2: 1990:4.2-4.4&5.2-5.4, Liquid & Plastic Limits (Subcontracted)	22	YES
BS EN ISO 17892-2: 2014:5.1 Density - Linear Measurement	2	YES
BS EN ISO 17892-2: 2014:5.2 Density - Immersion	2	YES
BS1377: Part 2: 1990:7.2, Density - Linear Measurement (Subcontracted)	3	YES
BS1377: Part 2: 1990:9.2, Particle Size Distribution - Wet Sieve	46	YES
BS1377: Part 2: 1990:9.4, Particle Size Distribution - Pipette	30	YES
BS1377: Part 2: 1990:9.2, Particle Size Distribution - Wet Sieve (Subcontracted)	38	YES
BS1377: Part 2: 1990:9.5, Particle Size Distribution - Hydrometer (Subcontracted)	28	YES

Remarks

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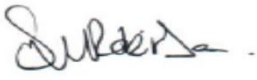
Approved Signatories:

S Robinson (Client Manager) C Andrew (Client Manager)

W Jones (Technical Support) J Hanson (Director) C Thomas (Consultant)



Geotechnical Engineering Ltd
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GEOTECHNICAL ENGINEERING LIMITED

Version No.	1
For the attention of Chris Yates/Emma Leivers	Page No. 2 of 191
	Date of Issue 13/10/2015

TEST REPORT

PROJECT/SITE	London Paramount Entertainment Resort	Samples received	15/07/2015
GEL REPORT NUMBER	30766	Schedule received	15/07/2015
Your ref/PO:	0	Testing commenced	04/08/2015
Test report refers to	All schedules combined	Status	Final

SUMMARY OF RESULTS ATTACHED

TEST METHOD & DESCRIPTION	QUANTITY	ACCREDITED TEST
BS1377: Part 4: 1990:3, Dry Density/Moisture Content Relationship	2	YES
BS1377: Part 4: 1990:3, Dry Density/Moisture Content Relationship (Subcontracted)	1	YES
BS1377: Part 5: 1990:3, Consolidation	2	NO
BS1377: Part 6: 1990:6, Constant Head Permeability (Subcontracted)	2	YES
BS1377: Part 7: 1990:4.5, Determination of Shear Strength by Direct Shear (Subcontracted)	4	YES
BS1377: Part 7: 1990:8&9, Undrained Triaxial Compression	4	NO
BS1377: Part 7: 1990:8&9, Undrained Triaxial Compression (Subcontracted)	4	YES
BS1377: Part 8: 1990: Effective Stress Testing (Subcontracted)	5	YES
ISRM: Suggested Methods: 2007 Edition: Uniaxial Compressive Strength of Rock	6	NO
ISRM: Suggested Methods: 2007 Edition: Uniaxial Compressive Strength of Rock (Subcontracted)	1	NO
ISRM: Suggested Methods 2007 Edition: Point Load Strength Test	31	NO
ISRM: Suggested Methods 2007 Edition: Point Load Strength Test (Subcontracted)	1	YES
Split and Describe	5	NO
Organic Matter Content (subcontracted)	12	YES

Remarks

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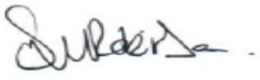

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GEOTECHNICAL ENGINEERING LIMITED

Version No.	1
For the attention of Chris Yates/Emma Leivers	Page No. 3 of 191
	Date of Issue 13/10/2015

TEST REPORT

PROJECT/SITE	London Paramount Entertainment Resort	Samples received	15/07/2015
GEL REPORT NUMBER	30766	Schedule received	15/07/2015
Your ref/PO:	0	Testing commenced	04/08/2015
Test report refers to	All schedules combined	Status	Final

SUMMARY OF RESULTS ATTACHED

TEST METHOD & DESCRIPTION	QUANTITY	ACCREDITED TEST
BRE Suite C	6	YES
BRE SD1 Suite (Subcontracted)	1	YES/NO

Remarks

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SATURATION MOISTURE CONTENT OF CHALK

BS.1377 : Part 2 : 1990 : 3.3

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample		specimen depth (m)	natural moisture content (%)	bulk density (Mg/m^3)	dry density (Mg/m^3)	saturation moisture content (%)	porosity (%)	description and remarks
	no./type	depth (m)							
BH101	99Cs	31.45	31.45	20	2.01	1.68	23	38	White CHALK
BH101	108Cs	35.95	36.20	27	1.93	1.53	29	43	White CHALK
BH101	114Cs	39.65	39.65	20	1.80	1.50	30	44	White CHALK
BH101	130Cs	56.50	56.50	8.5	1.75	1.61	25	40	White CHALK
BH203	41Xs	14.35	14.40	29	1.93	1.50	30	44	White CHALK
BH203	51Xs	18.20	18.20	28	1.95	1.52	29	44	White CHALK
BH203	61Cs	25.45	25.50	21	2.02	1.67	23	38	White CHALK
BH203	64Cs	25.75	25.80	22	2.01	1.65	24	39	White CHALK
BH203	70Cs	28.50	28.50	26	1.95	1.54	28	43	White CHALK
BH203	78Cs	31.30	31.30	32	1.88	1.43	33	47	White CHALK
BH203	84Cs	33.40	33.40	29	1.93	1.50	30	44	White CHALK
BH203	93Cs	36.20	36.20	29	1.92	1.49	30	45	White CHALK
BH203	103Cs	40.05	40.10	26	1.92	1.53	29	43	White CHALK
BH204	49Xs	14.40	14.40	31	1.92	1.47	31	46	White CHALK
BH204	57Xs	17.65	17.70	28	1.95	1.52	29	44	White CHALK
BH501	81Cs	19.95	19.95	27	1.97	1.55	28	43	Off white CHALK
BH502	69Cs	18.20	18.20	26	1.92	1.53	28	43	White CHALK

general remarks:
natural moisture content determined in accordance with BS1377 : Part 2 : 1990 : 3.2 (unless specified)
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

test method:
immersion in water (test 3.3)

CONTRACT	CHECKED
30766	**SR**

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SATURATED MOISTURE CONTENT OF CHALK - SUMMARY OF RESULTS

Project No	Project Name
N5110-15	LONDON PARAMOUNT ENTERTAINMENT RESORT

Hole No.	Sample				Specimen details			Saturation Moisture Content (3)	Porosity (4)	Remarks
	No.	Depth (m)		type	Moisture Content (1)	Bulk density (2)	Dry density			
		from	to		%	Mg/m³	Mg/m³	%	%	
BH202	82	25.00		XS	26	1.98	1.57	27	42	
BH202	95	28.45		CS	28	1.96	1.52	29	44	

Notes:

Test Specification : British Standard 1377 : Part 2 : 1990 clause 3.3

(1) Specimen dried at 105 - 110 °C

(2) Derived as part of standard test by immersion in water (buoyancy)

(3) SMC derived using particle density 2.70 Mg/m³

(4) Porosity (%) = 100 x (1 - (dry density / particle density))

above notes apply unless annotated otherwise in the remarks

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LIQUID AND PLASTIC LIMITS

BS.1377 : Part 2 : 1990 : 4 and 5

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample		specimen depth (m)	natural water content (%)	specimen preparation and test method	fraction >0.425 mm (%)	liquid limit (%)	plastic limit (%)	plasticity index (%)	description and remarks
	no./type	depth (m)								
BH101	29D	6.20	6.20	155	E					Dark brown slightly sandy slightly gravelly organic CLAY
BH101	32UT	7.20	7.35	80.9	BXE	1	75	34	41	Brownish grey slightly sandy organic CLAY
BH101	37D	8.20	8.20	75.5	BXE	0	91	42	49	Greyish brown slightly sandy organic CLAY
BH101	46D	10.50	10.50	111	BXE	0	209	100	109	Greyish black slightly sandy organic CLAY
BH101	50UT	12.00	12.10	70.9	BXE	0	77	34	43	Greyish brown slighty sandy organic CLAY
BH101	57D	13.50	13.50	20.2	E					Greyish brown sandy slightly gravelly CLAY
BH101	64B	15.00	15.00	17.0	BXE	28	24	NP		Greyish brown slightly gravelly silty SAND
BH203	12D	3.20	3.20	31.4	BXE	26	56	28	28	Brown slightly sandy slightly gravelly CLAY
BH203	17B	5.00	5.00	59.1	E					Brown slightly sandy CLAY
BH203	20B	6.00	6.00	20.5	BXE	19	22	12	10	Grey silty very sandy GRAVEL
BH203	25D	7.20	7.20	11.8	E					Light brown slightly sandy slightly gravelly CLAY
BH204	16B	4.00	4.00	94.4	BXE	8	88	36	52	Brown slightly sandy slightly gravelly organic CLAY
BH204	25D	6.20	6.20	35.1	BXE	3	47	20	27	Brown slightly sandy CLAY
BH204	29B	8.00	8.00	14.8	E					Greyish brown slightly sandy slightly gravelly CLAY
BH204	30B	9.00	9.00	12.3	BXE	64	23	14	9	Greyish brown silty sandy GRAVEL with medium cobble content
BH204	32UT	10.00	10.00	20.3	BXE	4	28	19	9	Brown slightly sandy slightly gravelly CLAY
BH204	36B	11.00	11.00	20.6	BXE	31	26	16	10	Brown slightly sandy slightly gravelly CLAY
BH501	7D	1.20	1.20	37.8	E					White slightly sandy slightly gravelly SILT. Gravel is CHALK

general remarks:
natural water content determined in accordance with BS EN ISO 17892 - 1 : 2014
NP denotes non-plastic
# denotes sample tested is smaller than that which is recommended in accordance with BS1377 or BS EN ISO 17892

specimen preparation:
A - as received
B - washed on 0.425mm sieve
C - air dried
D - oven dried (60°C)
E - oven dried (105°C)
F - not known

test method:
X - cone penetrometer (test 4.3)
Y - one point cone penetrometer (test 4.4)
Z - Casagrande apparatus (test 4.5)

CONTRACT **30766**

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LIQUID AND PLASTIC LIMITS

BS.1377 : Part 2 : 1990 : 4 and 5

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample		specimen depth (m)	natural water content (%)	specimen preparation and test method	fraction >0.425 mm (%)	liquid limit (%)	plastic limit (%)	plasticity index (%)	description and remarks
	no./type	depth (m)								
BH501	10D	1.70	1.70	39.4	BXE#	16	41	29	12	White slightly sandy slightly gravelly SILT. Gravel is CHALK
BH501	16D	3.10	3.10	35.5	BXE#	19	41	32	9	White slightly sandy slightly gravelly SILT. Gravel is CHALK
BH501	20D	3.60	3.60	30.8	E					White slightly sandy slightly gravelly SILT. Gravel is CHALK
BH501	22D	4.10	4.10	35.6	BXE#	36	38	31	7	White slightly sandy slightly gravelly SILT. Gravel is CHALK
BH501	28D	5.10	5.10	34.0	E					White slightly sandy slightly gravelly SILT. Gravel is CHALK
BH501	34D	6.10	6.10	29.6	E					White slightly sandy slightly gravelly SILT. Gravel is CHALK
BH501	38D	6.90	6.90	24.7	BXE#	47	41	29	12	White slightly sandy slightly gravelly SILT. Gravel is CHALK
BH501	46D	8.60	8.60	13.4	E#					Brown silty slightly sandy GRAVEL
BH502	5B	1.00	1.00	28.1	BXE#	23	34	23	11	Off white slightly sandy slightly gravelly CHALK
BH502	10D	1.70	1.70	19.4	E					Off white CHALK putty
BH502	13D	2.20	2.20	33.5	BXE#	21	36	31	5	Off white slightly sandy slightly gravelly CHALK
BH502	22D	4.20	4.20	27.1	BXE	18	32	23	9	Off white CHALK
BH502	29D	5.70	5.70	22.3	E					Off white CHALK
BH502	36D	7.20	7.20	19.0	BXE#	16	31	21	10	Off white slightly sandy slightly gravelly CHALK
BH502	43D	8.70	8.70	15.3	E#					Brown mottled white slightly clayey sandy GRAVEL
BH502	46D	9.20	9.20	16.2	BXE	5	29	17	12	Brown slightly sandy slightly gravelly CLAY
BH502	55D	11.40	11.40	13.5	BXE	62	43	17	26	Brown slightly sandy gravelly CLAY
BH703	15D	2.80	2.80	17.5	AXE	0	39	20	19	Orangish brown slightly sandy silty CLAY

general remarks:
natural water content determined in accordance with BS EN ISO 17892 - 1 : 2014
NP denotes non-plastic
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specimen preparation:
A - as received
B - washed on 0.425mm sieve
C - air dried
D - oven dried (60°C)
E - oven dried (105°C)
F - not known

test method:
X - cone penetrometer (test 4.3)
Y - one point cone penetrometer (test 4.4)
Z - Casagrande apparatus (test 4.5)

CONTRACT **30766**

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LIQUID AND PLASTIC LIMITS

BS.1377 : Part 2 : 1990 : 4 and 5

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SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample		specimen depth (m)	natural water content (%)	specimen preparation and test method	fraction >0.425 mm (%)	liquid limit (%)	plastic limit (%)	plasticity index (%)	description and remarks
	no./type	depth (m)								
BH703	19D	3.80	3.80	20.5	E					Orangish brown slightly sandy clayey SILT
BH703	23D	4.70	4.70	23.7	E					Orangish brown slightly sandy clayey SILT
BH704	7D	1.20	1.20	16.0	E					Brown slightly sandy slightly gravelly clayey SILT
BH704	11D	2.20	2.20	17.5	BXE	4	33	19	14	Brown slightly sandy slightly gravelly CLAY
BH704	15UT	3.20	3.20	24.1	BXE	4	35	20	15	Brown slightly sandy slightly gravelly CLAY with rare rootlets
BH704	19D	3.80	3.80	24.6	BXE	3	33	19	14	Brown slightly sandy slightly gravelly CLAY
BH705	5B	1.00	1.00	11.0	BXE	24	28	19	9	Yellowish brown slightly sandy gravelly silty CLAY
BH705	10D	1.90	1.90	10.1	E					Yellowish brown slightly clayey sandy GRAVEL
BH705	14D	3.00	3.00	11.7	BXE#	63	25	15	10	Light brown slightly sandy gravelly CLAY
BH706	9D	1.40	1.40	18.2	BXE	1	35	21	14	Orangish brown slightly sandy CLAY
BH707	44D	8.90	8.90	17.4	E					Brown clayey SILT
BH708	3B	0.50	0.50	10.2	BXE	35	38	17	21	Brown slightly sandy slightly gravelly CLAY
BH708	11D	1.80	1.80	26.4	BXE	32	52	25	27	Brownish black mottled yellow slightly sandy slightly gravelly CLAY
BH708	15D	2.40	2.40	21.1	BXE	19	35	17	18	Brown slightly sandy slightly gravelly CLAY
BH708	18D	2.80	2.80	27.7	E					Brown slightly sandy slightly gravelly CLAY
BH708	26D	4.20	4.20	20.3	E					Light brown slightly sandy slightly gravelly CLAY
BH708	30UT	5.20	5.30	24.2	AXE	0	38	24	14	Brownish green and grey slightly sandy CLAY
BH708	32D	5.70	5.70	15.5	BXE	17	35	20	15	Brown slightly sandy slightly gravelly CLAY

general remarks:
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specimen preparation:
A - as received
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C - air dried
D - oven dried (60°C)
E - oven dried (105°C)
F - not known

test method:
X - cone penetrometer (test 4.3)
Y - one point cone penetrometer (test 4.4)
Z - Casagrande apparatus (test 4.5)

CONTRACT **30766**

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LIQUID AND PLASTIC LIMITS

BS.1377 : Part 2 : 1990 : 4 and 5

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SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample		specimen depth (m)	natural water content (%)	specimen preparation and test method	fraction >0.425 mm (%)	liquid limit (%)	plastic limit (%)	plasticity index (%)	description and remarks
	no./type	depth (m)								
BH708	38D	6.90	6.90	16.3	BXE	12	30	18	12	Brown slightly sandy slightly gravelly CLAY
BH708	42D	8.20	8.20	24.1	BXE	4	36	18	18	Light brown slightly sandy slightly gravelly CLAY
BH708	44D	8.30	8.30	24.6	E					Brown slightly sandy slightly gravelly CLAY
TP301	11D	2.00	2.00	25.7	E					Black mottled off white clayey gravelly SAND
TP301	15D	2.40	2.40	24.1	E					Off white mottled brownish grey silty gravelly SAND
TP302	15D	2.50	2.50	20.7	E					Grey slightly sandy slightly gravelly CLAY. Gravel is CHALK
TP302	20D	3.50	3.50	21.6	BXE	2	27	23	4	Off white slightly sandy slightly gravelly CHALK
TP701	4D	0.50	0.50	8.8	E					Brown slightly sandy slightly gravelly CLAY with rare rootlets
TP701	6D	1.00	1.00	19.3	BXE	7	37	17	20	Brown slightly sandy slightly gravelly CLAY
TP701	12D	2.00	2.00	18.9	E					Brown slightly sandy CLAY
TP701	16D	2.50	2.50	17.2	BXE	6	34	18	16	Brown slightly sandy slightly gravelly CLAY
TP701	21D	3.20	3.20	22.5	AXE	0	30	22	8	Light brown slightly sandy CLAY
TP702	5D	1.00	1.00	6.7	E					Yellowish brown slightly clayey slightly gravelly SAND
TP702	9D	1.50	1.50	17.4	BXE	36	39	20	19	Greyish brown slightly sandy slightly gravelly CLAY
TP702	11D	2.00	2.00	15.6	E					Orangish brown slightly sandy slightly gravelly CLAY
TP702	15D	2.50	2.50	19.0	BXE	7	32	18	14	Brown slightly sandy slightly gravelly silty CLAY
TP702	18D	3.00	3.00	24.2	E					Brown slightly sandy slightly gravelly CLAY
TP702	21D	3.40	3.40	22.6	BXE	3	32	20	12	Brown slightly sandy slightly gravelly CLAY

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D - oven dried (60°C)
E - oven dried (105°C)
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Y - one point cone penetrometer (test 4.4)
Z - Casagrande apparatus (test 4.5)

CONTRACT **30766**

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LIQUID AND PLASTIC LIMITS

BS.1377 : Part 2 : 1990 : 4 and 5

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SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample		specimen depth (m)	natural water content (%)	specimen preparation and test method	fraction >0.425 mm (%)	liquid limit (%)	plastic limit (%)	plasticity index (%)	description and remarks
	no./type	depth (m)								
WS101	11U	2.00	2.00	79.2	BYE	44	86	NP		Greyish brown and orangish brown slightly sandy slightly gravelly SILT
WS101	23U	4.00	4.00	75.1	BYE	71	83	65	18	Greyish brown slightly sandy slightly gravelly SILT
WS101	30U	6.00	6.00	62.3	BYE	25	50	NP		Dark brown slightly sandy organic SILT
WS102	12U	2.00	2.20	66.9	BYE	65	97	NP		Greyish brown sandy slightly gravelly SILT
WS102	24U	4.00	4.25	81.1	BYE	61	89	NP		Greyish brown silty slightly gravelly SILT
WS202	17X	3.00	3.00	31.4	BZE#	35	55	46	9	Greyish brown slightly sandy slightly gravelly SILT
WS202	43U	11.00	11.30	60.0	BXE	1	82	33	49	Greyish brown slightly sandy CLAY
WS203	11U	2.00	2.00	57.9	BXE	45	65	NP		Greyish brown sandy slightly gravelly SILT
WS204	27X	5.00	5.00	33.8	BXE	63	51	40	11	Brownish white slightly sandy slightly gravelly SILT

general remarks:
natural water content determined in accordance with BS EN ISO 17892 - 1 : 2014
NP denotes non-plastic
# denotes sample tested is smaller than that which is recommended in accordance with BS1377 or BS EN ISO 17892

specimen preparation:
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CONTRACT **30766**

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SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression			Chemical Tests			Other tests and comments
Borehole / Trial Pit	Sample Ref	Depth (m)	Type	Description	MC (%)	LL (%)	PL (%)	PI (%)	<425 µm (%)	Bulk Mg/m³	Dry Mg/m³	Cell Pressure kPa	Deviator Stress kPa	Shear Stress kPa	pH	2:1 W/S SO4 (g/L)	W/S Mg (mg/L)	
101		5.20-5.65	UT	Soft grey organic silty CLAY with rare fine gravel.	102	108	34	74	100									Effective stress Triaxial
101		9.20-9.65	UT	Soft to firm black fibrous PEAT.	474		NP		100									Effective stress Triaxial

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed) NP=Non Plastic

Checked and Approved by

S Burke

Senior Technician
09/10/2015

Project Number:

GEO / 23014

Project Name:

LONDON PARAMOUNT ENTERTAINMENT RESORT
30766

GEOLABS®

SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression			Chemical Tests			Other tests and comments
Borehole / Trial Pit	Sample Ref	Depth (m)	Type	Description	MC (%)	LL (%)	PL (%)	PI (%)	<425 µm (%)	Bulk Mg/m³	Dry Mg/m³	Cell Pressure kPa	Deviator Stress kPa	Shear Stress kPa	pH	2:1 W/S SO4 (g/L)	W/S Mg (mg/L)	
BH204	UT21	5.20-5.65	U	Soft to firm grey CLAY with rare fine sand and some patches of black organic rich material.	60	78	34	44	100	1.69	1.06	110	51	26				Triaxial Permeability

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed)

Checked and Approved by

Operations Manager
17/08/2015

Project Number:

GEO / 22927

Project Name:

LONDON PARAMOUNT ENTERTAINMENT RESORT

30766

GEOLABS®

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ATTERBERG LINE PLOT

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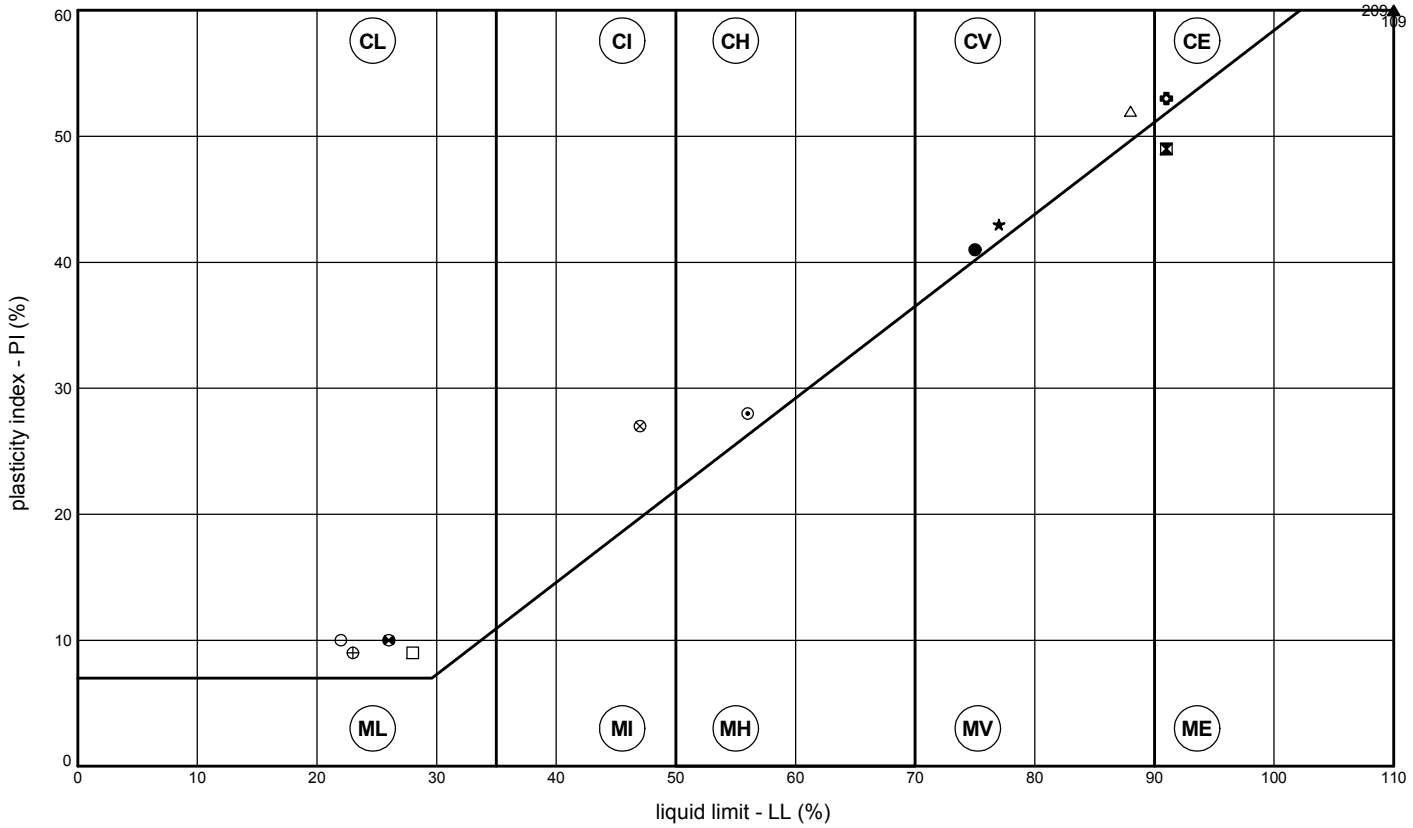
SITE LONDON PARAMOUNT ENTERTAINMENT RESORT



	BH/TP No.	depth (m)	LL	PL	PI	remarks
●	BH101	7.35	75	34	41	
⊠	BH101	8.20	91	42	49	
▲	BH101	10.50	209	100	109	
★	BH101	12.10	77	34	43	
⊙	BH203	3.20	56	28	28	
✿	BH203	4.20	91	38	53	
○	BH203	6.00	22	12	10	
△	BH204	4.00	88	36	52	
⊗	BH204	6.20	47	20	27	
⊕	BH204	9.00	23	14	9	
□	BH204	10.00	28	19	9	
⊛	BH204	11.00	26	16	10	

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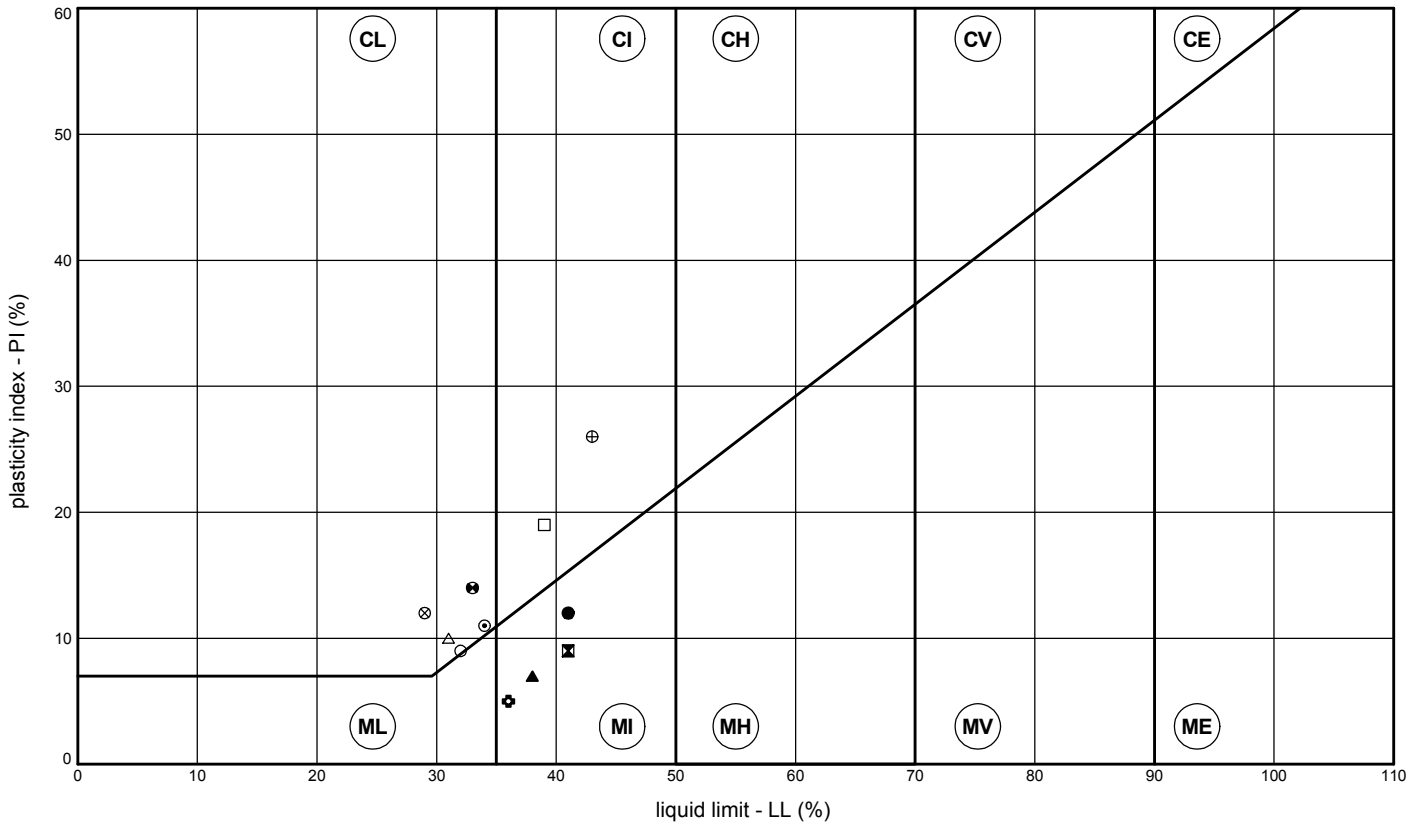
SITE LONDON PARAMOUNT ENTERTAINMENT RESORT



	BH/TP No.	depth (m)	LL	PL	PI	remarks
●	BH501	1.70	41	29	12	
⊠	BH501	3.10	41	32	9	
▲	BH501	4.10	38	31	7	
★	BH501	6.90	41	29	12	
⊙	BH502	1.00	34	23	11	
✿	BH502	2.20	36	31	5	
○	BH502	4.20	32	23	9	
△	BH502	7.20	31	21	10	
⊗	BH502	9.20	29	17	12	
⊕	BH502	11.40	43	17	26	
□	BH703	2.80	39	20	19	
⊛	BH704	2.20	33	19	14	

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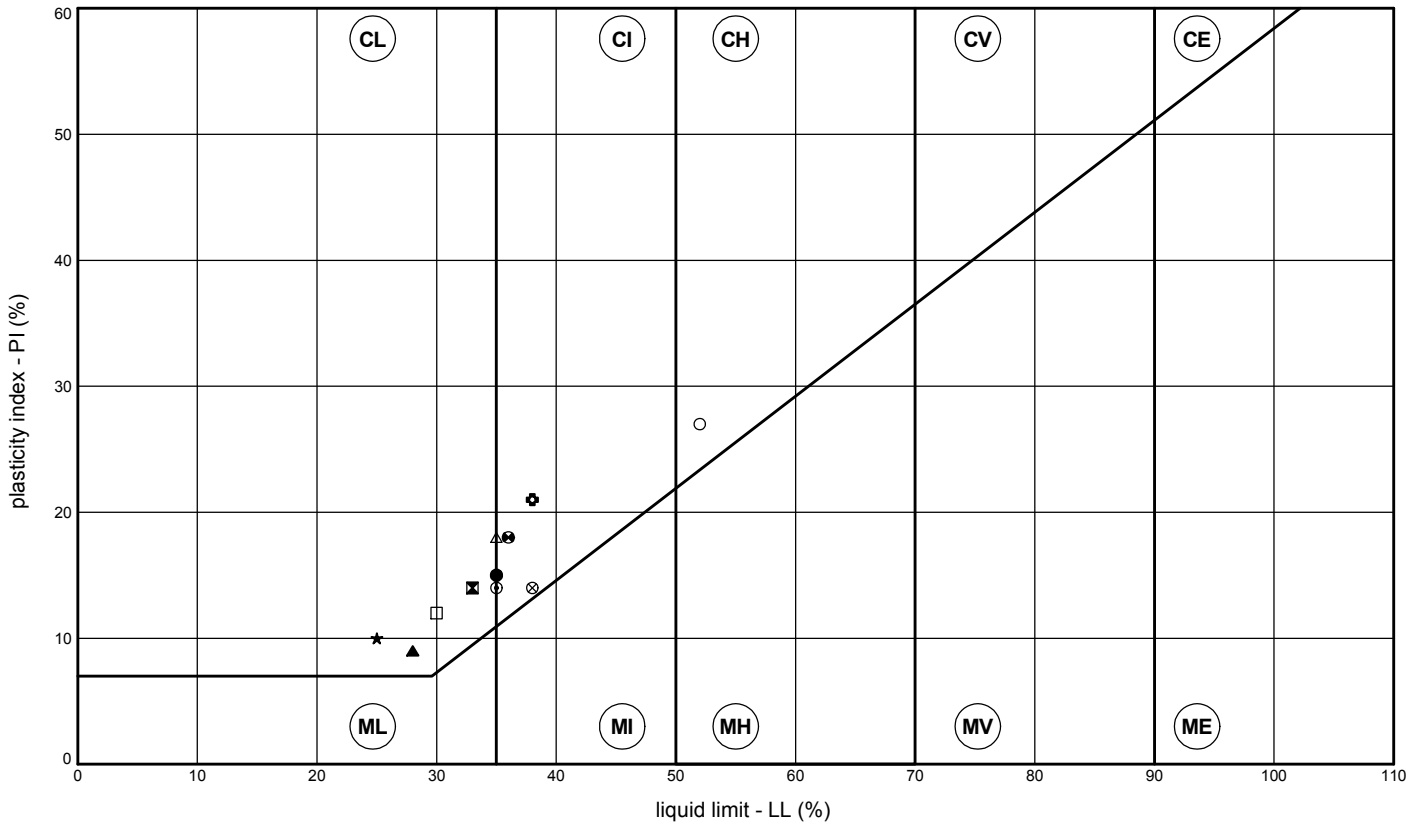
SITE LONDON PARAMOUNT ENTERTAINMENT RESORT



	BH/TP No.	depth (m)	LL	PL	PI	remarks
●	BH704	3.20	35	20	15	
⊠	BH704	3.80	33	19	14	
▲	BH705	1.00	28	19	9	
★	BH705	3.00	25	15	10	
⊙	BH706	1.40	35	21	14	
✿	BH708	0.50	38	17	21	
○	BH708	1.80	52	25	27	
△	BH708	2.40	35	17	18	
⊗	BH708	5.30	38	24	14	
⊕	BH708	5.70	35	20	15	
□	BH708	6.90	30	18	12	
⊛	BH708	8.20	36	18	18	

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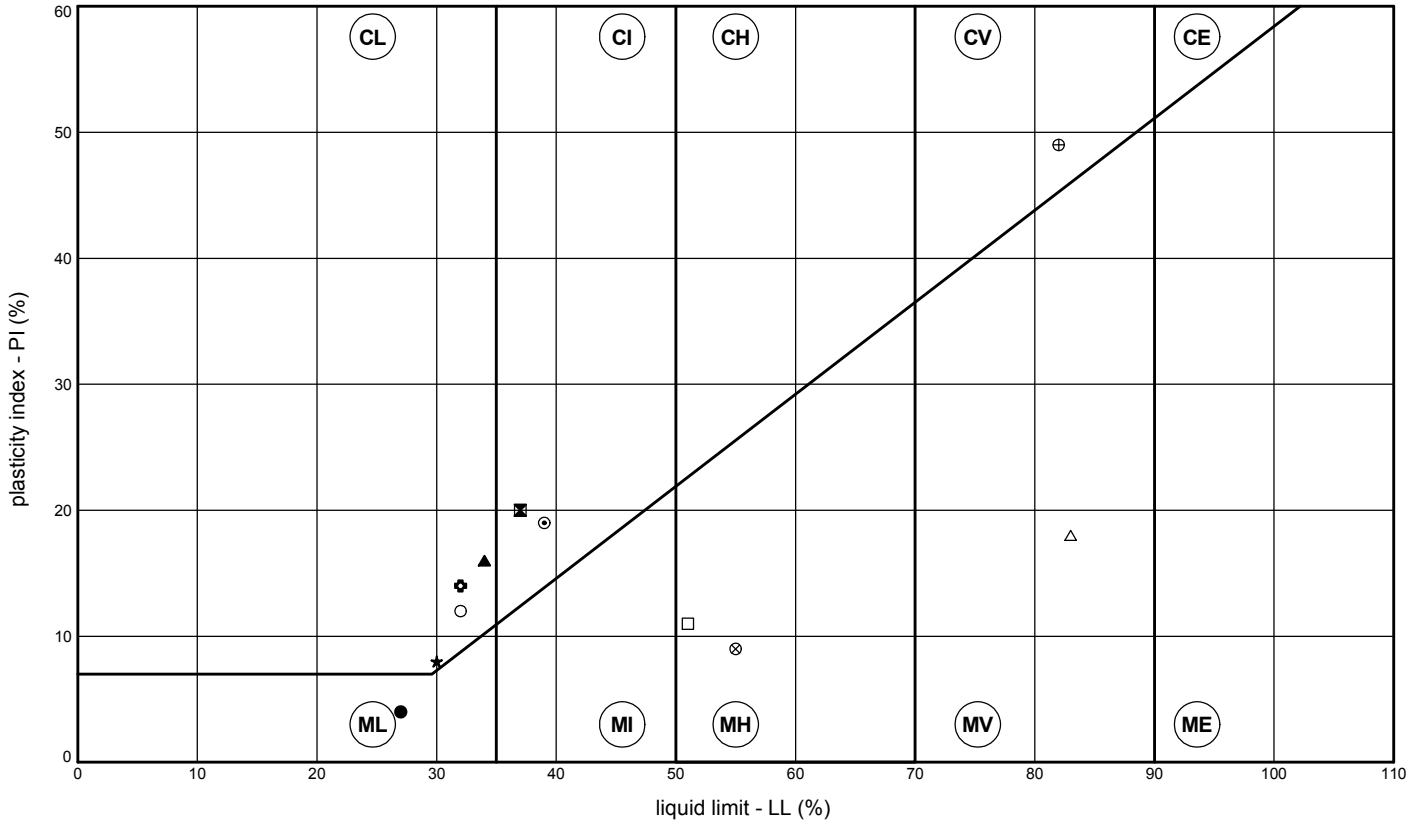
SITE LONDON PARAMOUNT ENTERTAINMENT RESORT



	BH/TP No.	depth (m)	LL	PL	PI	remarks
●	TP302	3.50	27	23	4	
⊠	TP701	1.00	37	17	20	
▲	TP701	2.50	34	18	16	
★	TP701	3.20	30	22	8	
⊙	TP702	1.50	39	20	19	
✿	TP702	2.50	32	18	14	
○	TP702	3.40	32	20	12	
△	WS101	4.00	83	65	18	
⊗	WS202	3.00	55	46	9	
⊕	WS202	11.30	82	33	49	
□	WS204	5.00	51	40	11	

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INDEX PROPERTIES - SUMMARY OF RESULTS

Project No	Project Name
N5110-15	LONDON PARAMOUNT ENTERTAINMENT RESORT

Hole No.	Sample No.	Depth (m) from	Depth (m) to	type	Soil Description	p Mg/m^3	p_d Mg/m^3	w %	< 425 µm sieve %	W_L %	W_P %	I_P	p_s Mg/m^3	Remarks
BH101	12	2.20	2.65	UT	Firm dark brown mottled black organic CLAY.	1.39	0.66	109	100 n	137 a	59	78		
BH101	17	3.00	3.20	B	Grey sandy GRAVEL.			24	28 s	35 b	27	8		
BH101	19	4.00	4.20	B	Brown slightly sandy slightly gravelly CLAY.			100						
BH201	23	6.70	7.15	UT	Stiff brownish grey slightly sandy clayey SILT.	1.60	0.95	69	100 n	73 a	60	13		
BH201	27	7.30	7.40	D	Brown slightly sandy CLAY.			111						
BH202	7	1.00	1.20	UT	Brown slightly sandy slightly gravelly CLAY.			39	56 s	57 a	44	13		
BH202	11	2.00	2.20	B	Stiff light greyish brown sandy CHALK.			88	43 s	83 b	NP			
BH202	18	3.20	3.65	D	Brown slightly sandy CLAY.			58	66 s	113 b	94	19		
BH202	25	5.20	5.65	D	Greyish brown slightly sandy silty CLAY.			119						
BH202	28	6.20	6.60	UT	Grey slightly sandy SILT.				100 n	131 a	95	36		
BH202	32	8.00	8.20	B	Grey slightly sandy slightly gravelly CLAY.			100	100 n	101 a	69	32		
BH202	38	9.20	9.65	D	Black slightly gravelly slightly clayey PEAT.			186						
BH202	46	11.50	11.95	D	Greenish grey CLAY with rare shell fragments and plant remains.			80						
BH202	56	14.50	14.95	D	Dark brownish grey clayey PEAT.			290						
BH202	64	17.50	17.95	D	Grey sandy gravelly CLAY.			21	29 s	52 b	29	23		
BH204	9	3.00	3.30	B	Brown slightly sandy slightly gravelly CLAY.			52	90 s	68 a	31	37		
BH204	13	3.30	3.75	U										
BH703	9	1.20	1.30	D	Light brown slightly gravelly CLAY.			17	92 s	27 a	18	9		
BH707	9	1.30	1.45	D	Brown slightly sandy slightly gravelly CLAY.			16	80 s	35 a	19	16		
BH707	15	2.35	2.45	D	Brown slightly sandy slightly gravelly CLAY.			23						
BH707	21	3.30	3.40	D	Browish black slightly sandy slightly gravelly CLAY.			102	66 s	49 a	33	16		
BH707	27	4.40	4.50	D	Brown slightly sandy slightly gravelly CLAY.			17						
BH707	31	5.20	5.65	D	Brown slightly sandy CLAY.			20						
BH707	33	5.60	5.70	D										
BH707	44	8.90	9.00	D										
TP301	5	1.00		D	White CHALK composed of slightly gravelly clay.			20	86 s	28 a	20	8		
TP302	3	0.50		D	Brown slightly sandy slightly gravelly CLAY.			11	36 s	38 b	NP			
TP302	9	1.50		D	Brown slightly sandy slightly gravelly CLAY.			21						
TP302	11	2.00		D	White gravelly CHALK.			20						
WS101	7	1.20	1.65	D	Light brown sandy CLAY.			60						
WS101	16	2.80	2.90	D	Light brown sandy CLAY.			76						
WS102	7	1.20	1.65	D	Brown sandy CLAY.			56	100 n	69 b	NP			

General notes: All above tests carried out to BS1377 : 1990 unless annotated otherwise. See individual test reports for further details.

Key :

p	bulk density, linear	W_L Liquid limit	W_P	Plastic limit	<425um preparation	p_s	particle density
p_d	dry density	a 4 point cone test	NP	non - plastic	n from natural soil	-g = gas jar	
w	moisture content	b 1 point cone test	I_P	Plasticity Index	s sieved specimen	-p = small pyknometer	

INDEX PROPERTIES - SUMMARY OF RESULTS

Project No	Project Name
N5110-15	LONDON PARAMOUNT ENTERTAINMENT RESORT

Hole No.	Sample No.	Depth (m) from	Depth (m) to	type	Soil Description	p Mg/m^3	p_d Mg/m^3	w %	< 425 µm sieve %	W_L %	W_P %	I_P	p_s Mg/m^3	Remarks
WS102	17	2.80	2.90	D	Brown slightly sandy CLAY.			85						
WS102	21	3.30	3.40	D	Brown slightly sandy slightly gravelly CLAY.			92						
WS102	29	4.80	4.90	D	Brown slightly sandy CLAY.			60						
WS202	16	2.80	2.90	D	Light brown clayey SAND.			49						
WS202	20	3.80	3.90	D	Light brown clayey SAND.			55						
WS202	26	6.00	6.45	D	Light brown clayey SAND.			55						
WS202	29	7.00	7.45	D	Light brown sandy CLAY.			58						
WS202	35	8.80	8.90	D	Light brown clayey SAND.			74						
WS203	7	1.20	1.65	D	Brown slightly sandy CLAY.			57						
WS203	20	3.80	3.90	D	Brown slightly sandy CLAY.			69						
WS204	5	1.00	1.20	B	Brown very sandy silty GRAVEL.			65	27 s	82 a	66	16		
WS204	10	1.55	1.65	D										
WS204	16	3.00	3.45	D	Light brown sandy CLAY.			46	76 s	73 a	57	16		
WS204	19	3.55	3.65	D	Brown slightly sandy CLAY.			45						
WS204	29	6.00	6.45	D	Brown slightly sandy CLAY.			57						
WS204	34	7.55	7.65	D	Light brown slightly sandy CLAY.			53						
WS301	5	1.00	1.20	B	Grey very gravelly very silty SAND.			14	55 s	28 a	20	8		

General notes: All above tests carried out to BS1377 : 1990 unless annotated otherwise. See individual test reports for further details.

Key :

p	bulk density, linear	W_L Liquid limit	W_P	Plastic limit	<425um preparation	p_s	particle density
p_d	dry density	a 4 point cone test	NP	non - plastic	n from natural soil	-g = gas jar	
w	moisture content	b 1 point cone test	I_P	Plasticity Index	s sieved specimen	-p = small pyknometer	

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DENSITY - LABORATORY

BS EN ISO 17892 - 2 : 2014

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample		specimen depth (m)	test method	natural water content (%)	bulk density (Mg/m^3)	dry density (Mg/m^3)	description and remarks
	no./type	depth (m)						
BH708	30UT	5.20	5.30	A	24.2	1.96	1.58	Brownish green and grey slightly sandy CLAY
WS102	12U	2.00	2.20	B	66.9	1.45	0.87	Greyish brown sandy slightly gravelly SILT
WS102	24U	4.00	4.25	B	81.1	1.47	0.81	Greyish brown silty slightly gravelly SILT
WS202	44X	11.00	11.60	A	68.4	1.44	0.86	Brown slightly sandy slightly gravelly CLAY

general remarks:

# denotes sample tested is smaller than that which is recommended in accordance with BS EN ISO 17892 - 2 : 2014

test method:
A - linear measurement (5.1)
B - immersion in fluid (5.2)
C - fluid displacement (5.3)

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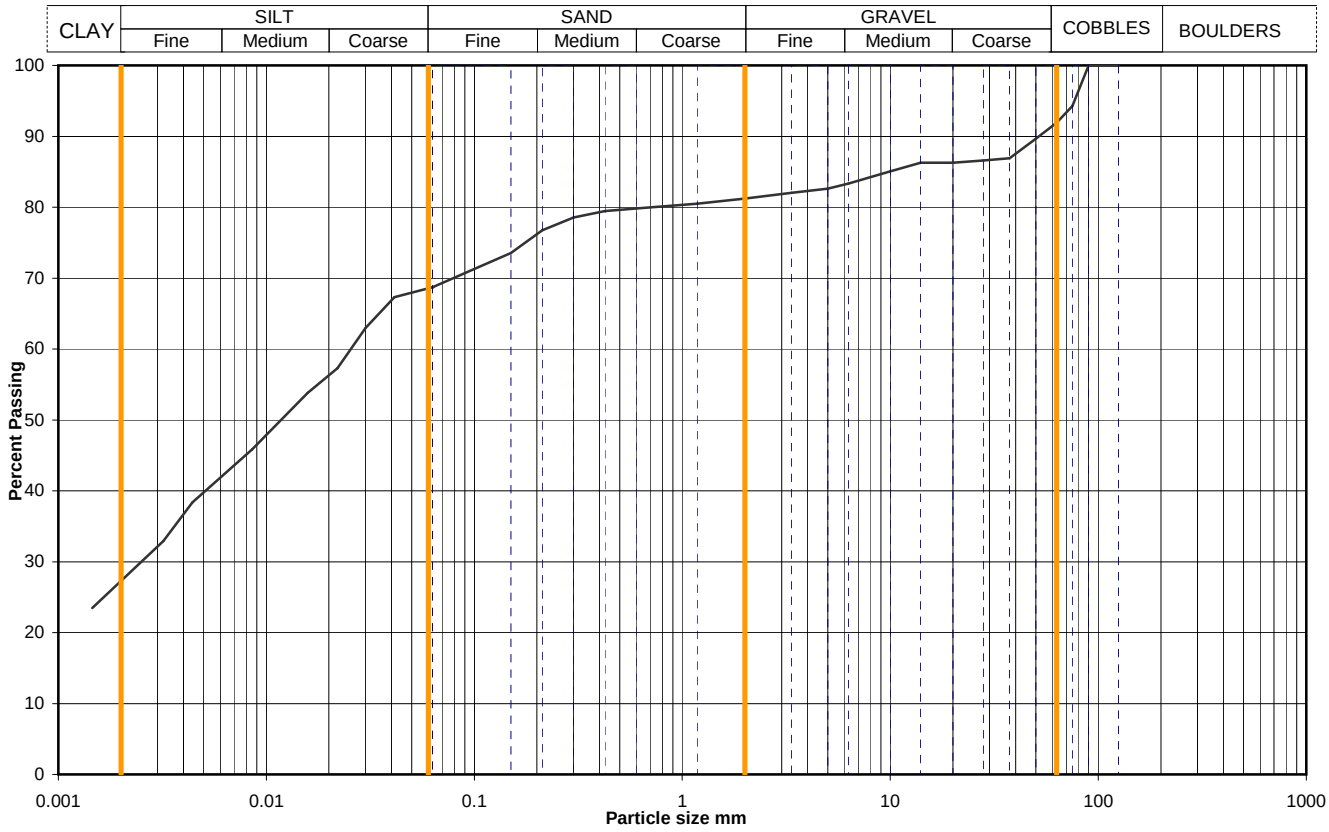
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH101		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.40		
			Samp No	8	Type	B
			ID	MASTER3237		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	69
90	100	0.0413	67
75	94	0.0300	63
63	92	0.0219	57
50	90	0.0158	54
37.5	87	0.0085	46
28	87	0.0044	38
20	86	0.0032	33
14	86	0.0015	23
10	85		
6.3	83		
5.0	83		
3.35	82		
2.00	81		
1.18	80	Particle density, Mg/m3	
0.600	80		
0.425	79	2.65 assumed	
0.300	79	Dry mass of sample, kg	
0.212	77		
0.150	74	8.8	
0.063	69		

Soil description	Brown slightly sandy slightly gravelly CLAY.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	8	0
	Gravel	11	12
	Sand	13	14
	Silt	41	45
	Clay	27	29

Uniformity Coefficient	D_{60} / D_{10}	Not applicable

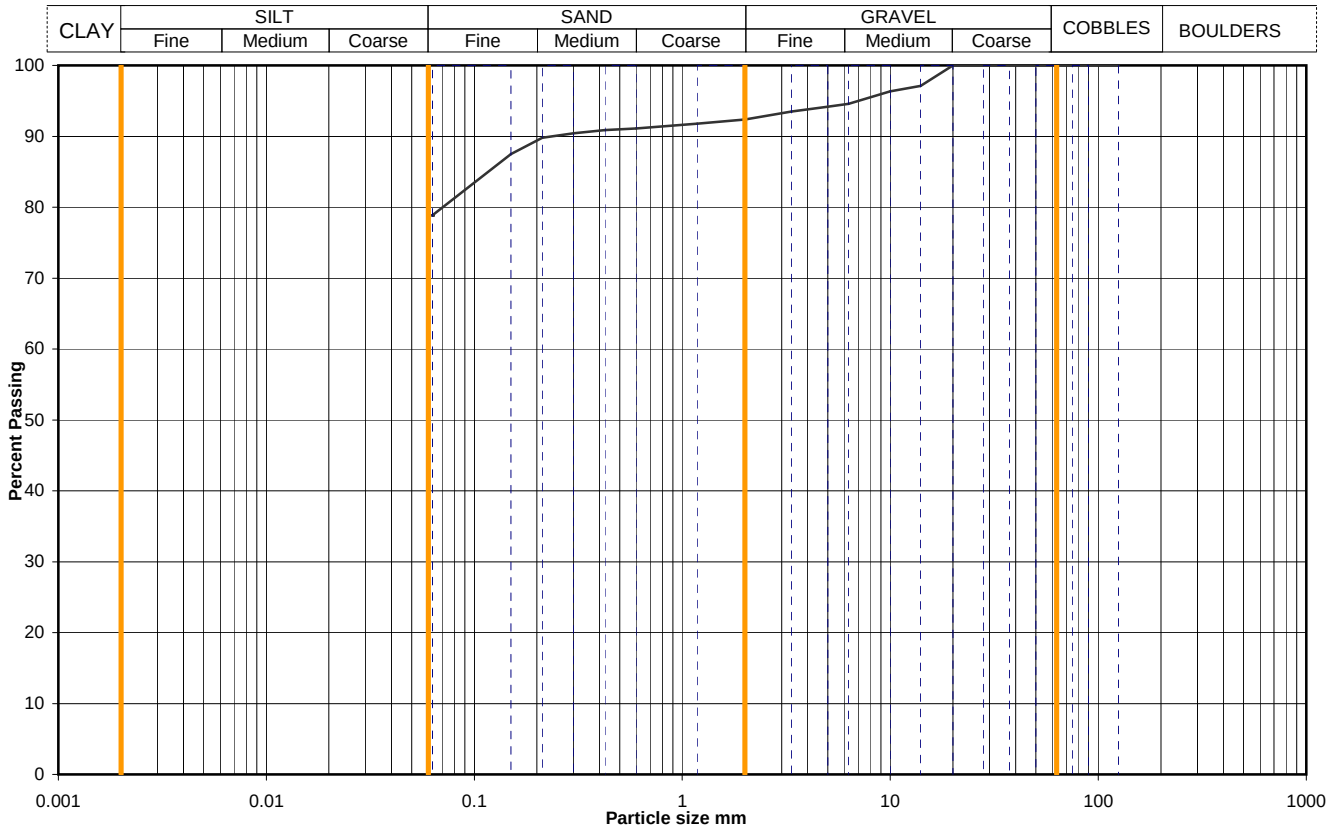
Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36

Figure **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH101		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	2.40		
			Samp No	13	Type	B
			ID	MASTER3239		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	97		
10	96		
6.3	95		
5.0	94		
3.35	93		
2.00	92		
1.18	92		
0.600	91		
0.425	91		
0.300	90	Dry mass of sample, kg	
0.212	90		
0.150	88	5.5	
0.063	79		

Soil description	Black slightly sandy slightly gravelly CLAY.		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	8	8
	Sand	14	14
	Silt	silt+clay =	
	Clay	78	78

Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36	**Figure** **PSD**

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PARTICLE SIZE DISTRIBUTION

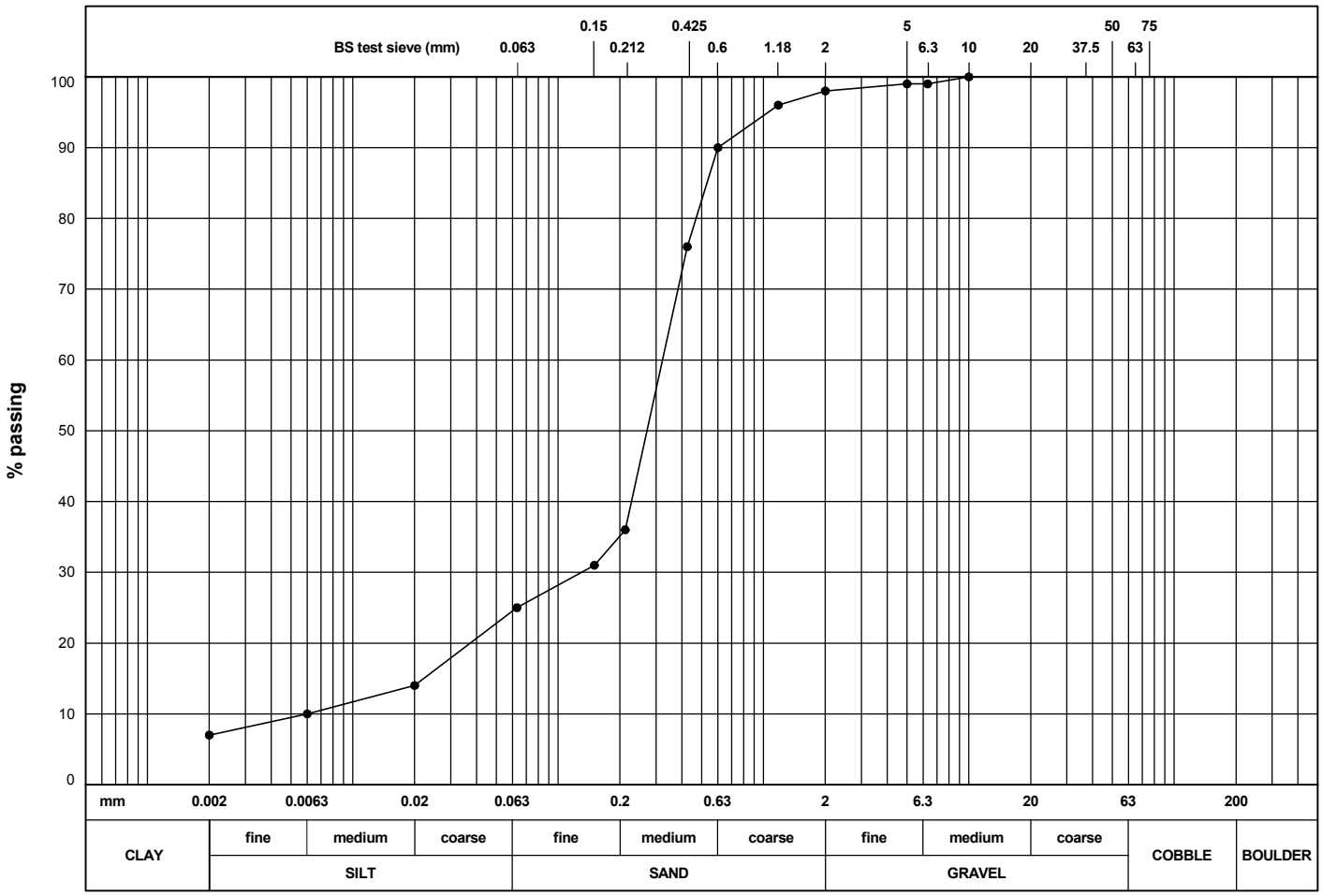
BS.1377 : Part 2 : 1990 : 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Greyish brown very silty slightly gravelly SAND

BH/TP No.	BH101
SAMPLE No./TYPE	59B
SAMPLE DEPTH (m)	14.00
SPECIMEN DEPTH (m)	14.00



soil type	% fraction
CLAY	7
SILT	18
SILT & CLAY	25
SAND	73
GRAVEL	2
COBBLE & BOULDER	0
test method(s)	9.2&9.4

BS test sieve (mm)	% passing
150	
75	
63	
50	
37.5	
20	
10	100
6.3	99

BS test sieve (mm)	% passing
5	99
2	98
1.18	96
0.6	90
0.425	76
0.212	36
0.15	31
0.063	25

particle size (μm)	% finer
20	14
6	10
2	7

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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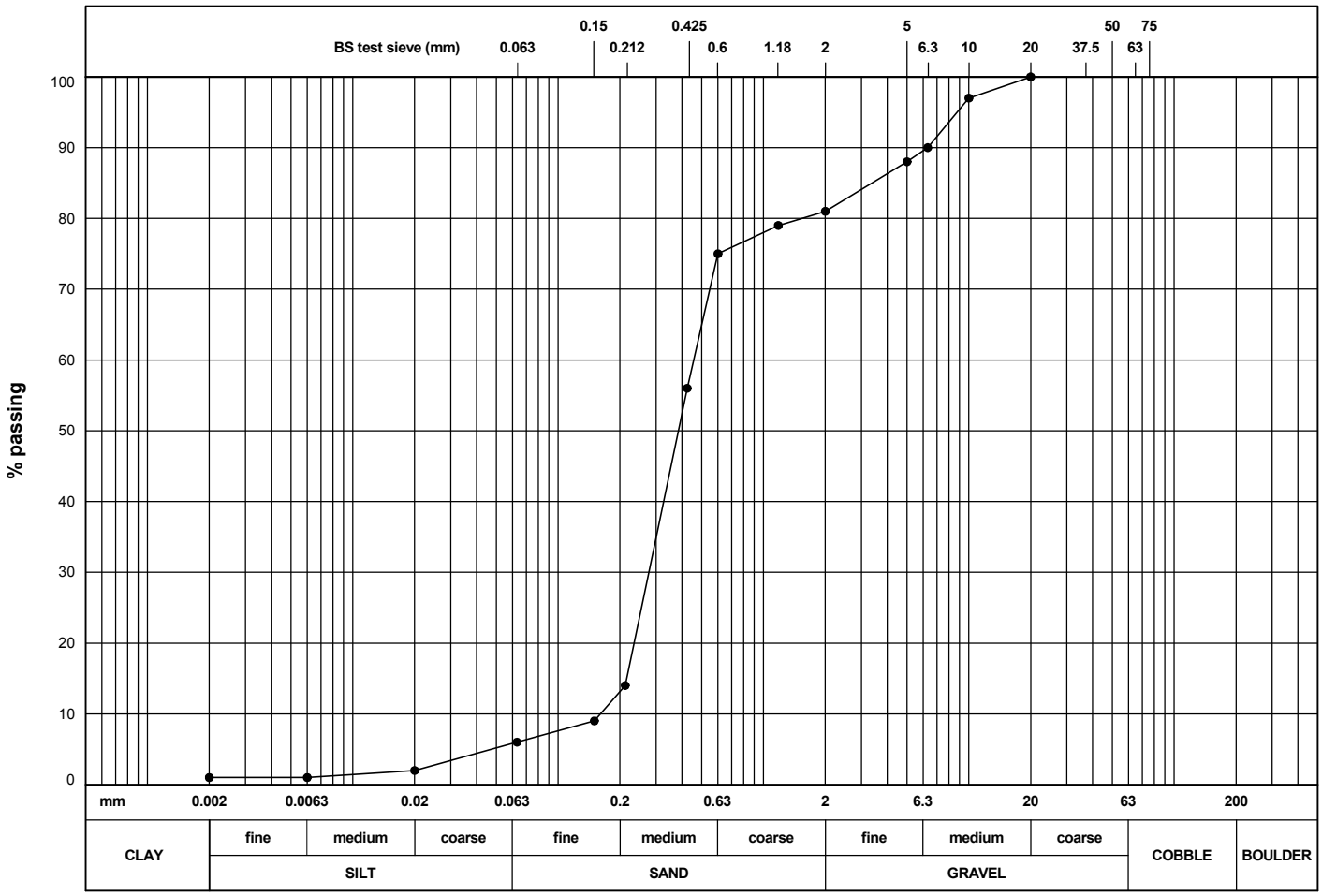
PARTICLE SIZE DISTRIBUTION

BS.1377 : Part 2 : 1990 : 9

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH101
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	65B
		SAMPLE DEPTH (m)	16.00
DESCRIPTION	Greyish brown silty gravelly SAND	SPECIMEN DEPTH (m)	16.00



soil type	% fraction
CLAY	1
SILT	5
SILT & CLAY	6
SAND	75
GRAVEL	19
COBBLE & BOULDER	0
test method(s)	9.2&9.4#

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	88	20	2
75		2	81	6	1
63		1.18	79	2	1
50		0.6	75		
37.5		0.425	56		
20	100	0.212	14		
10	97	0.15	9		
6.3	90	0.063	6		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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PARTICLE SIZE DISTRIBUTION

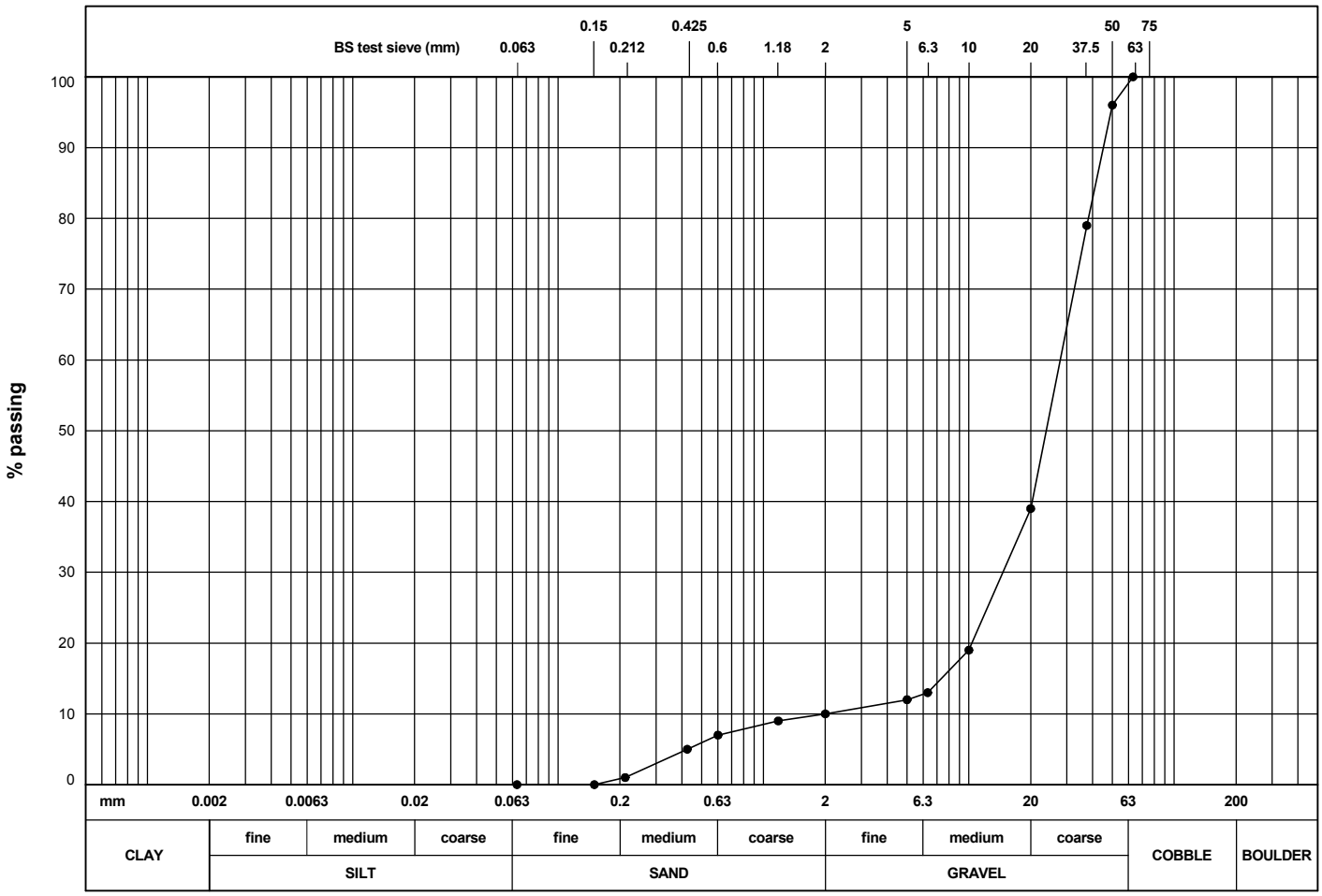
BS.1377 : Part 2 : 1990 : 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown sandy GRAVEL

BH/TP No.	BH101
SAMPLE No./TYPE	69B
SAMPLE DEPTH (m)	18.00
SPECIMEN DEPTH (m)	18.00



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	0
SAND	10
GRAVEL	89
COBBLE & BOULDER	1
test method(s)	9.2#

BS test sieve (mm)	% passing
150	
75	
63	100
50	96
37.5	79
20	39
10	19
6.3	13

BS test sieve (mm)	% passing
5	12
2	10
1.18	9
0.6	7
0.425	5
0.212	1
0.15	0
0.063	0

particle size (μm)	% finer
20	
6	
2	

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

CONTRACT	CHECKED
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PARTICLE SIZE DISTRIBUTION

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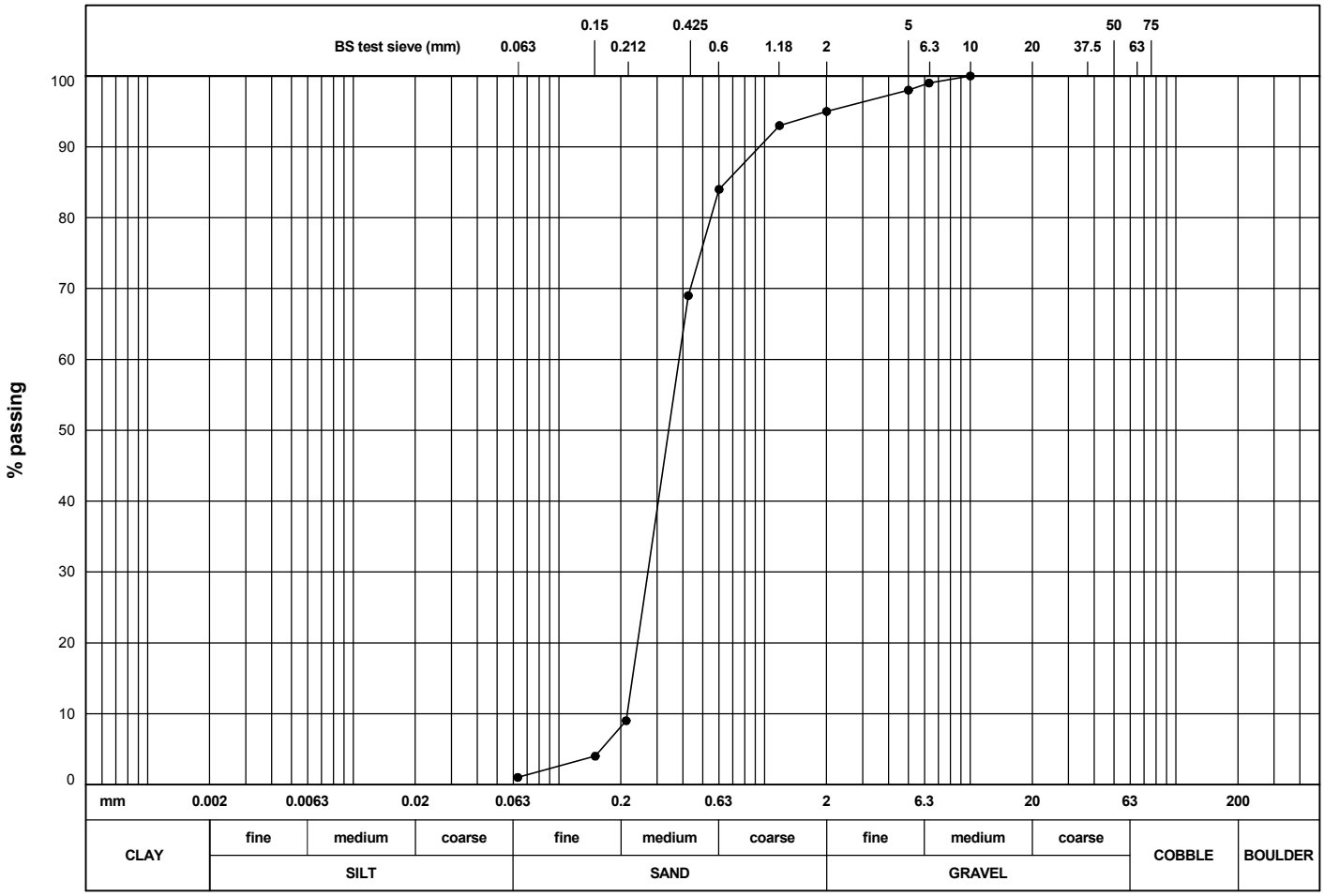
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Yellow brown slightly clayey slightly gravelly SAND

BH/TP No.	BH101
SAMPLE No./TYPE	71B
SAMPLE DEPTH (m)	19.00
SPECIMEN DEPTH (m)	19.00



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	1
SAND	94
GRAVEL	5
COBBLE & BOULDER	0
test method(s)	9.2

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing
150		5	98
75		2	95
63		1.18	93
50		0.6	84
37.5		0.425	69
20		0.212	9
10	100	0.15	4
6.3	99	0.063	1

particle size (μm)	% finer
20	
6	
2	

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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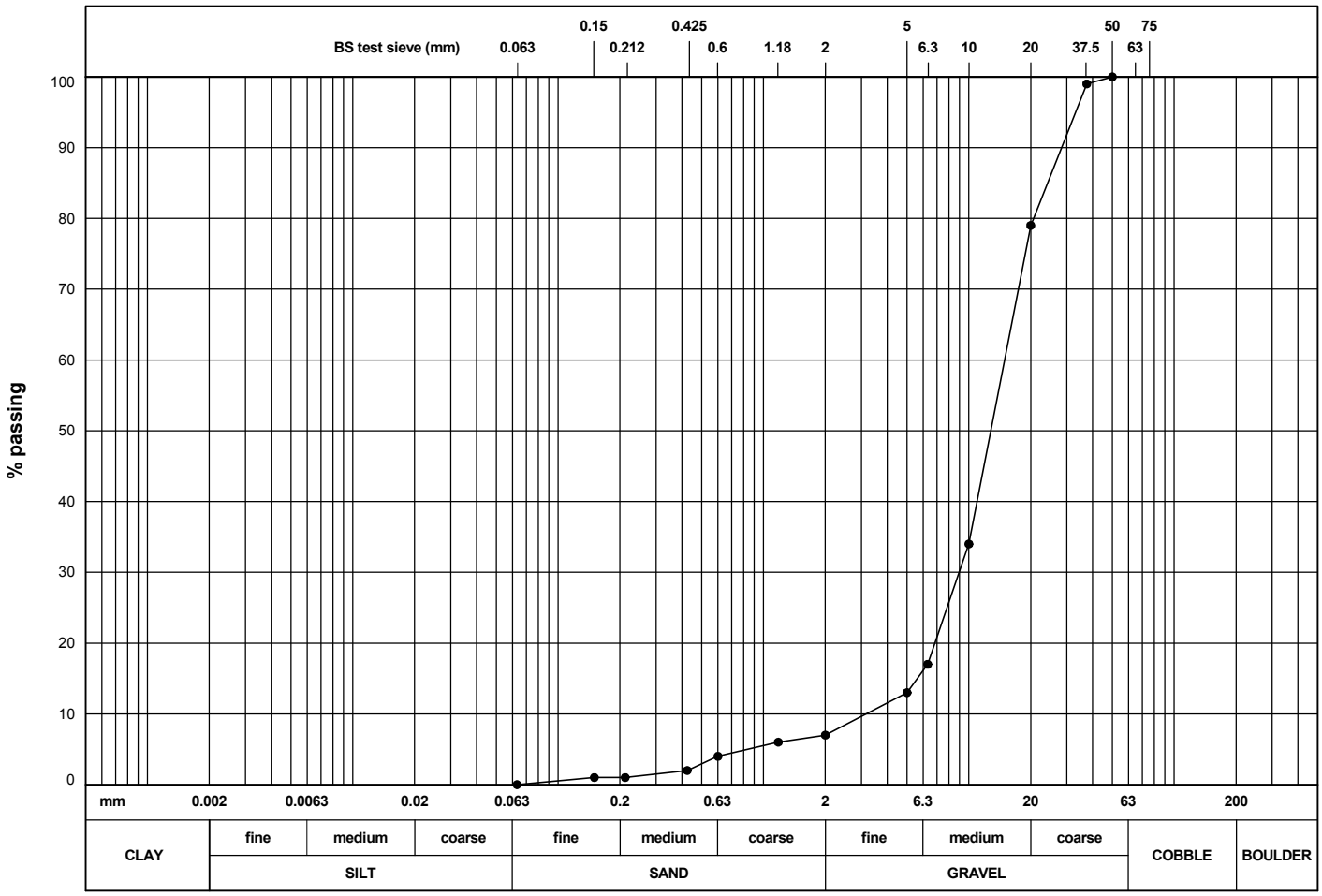
PARTICLE SIZE DISTRIBUTION

BS.1377 : Part 2 : 1990 : 9

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH101
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	73B
		SAMPLE DEPTH (m)	20.00
DESCRIPTION	Yellow brown sandy GRAVEL	SPECIMEN DEPTH (m)	20.00



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	0
SAND	7
GRAVEL	93
COBBLE & BOULDER	0
test method(s)	9.2

BS test sieve (mm)	% passing
150	
75	
63	
50	100
37.5	99
20	79
10	34
6.3	17

BS test sieve (mm)	% passing
5	13
2	7
1.18	6
0.6	4
0.425	2
0.212	1
0.15	1
0.063	0

particle size (μm)	% finer
20	
6	
2	

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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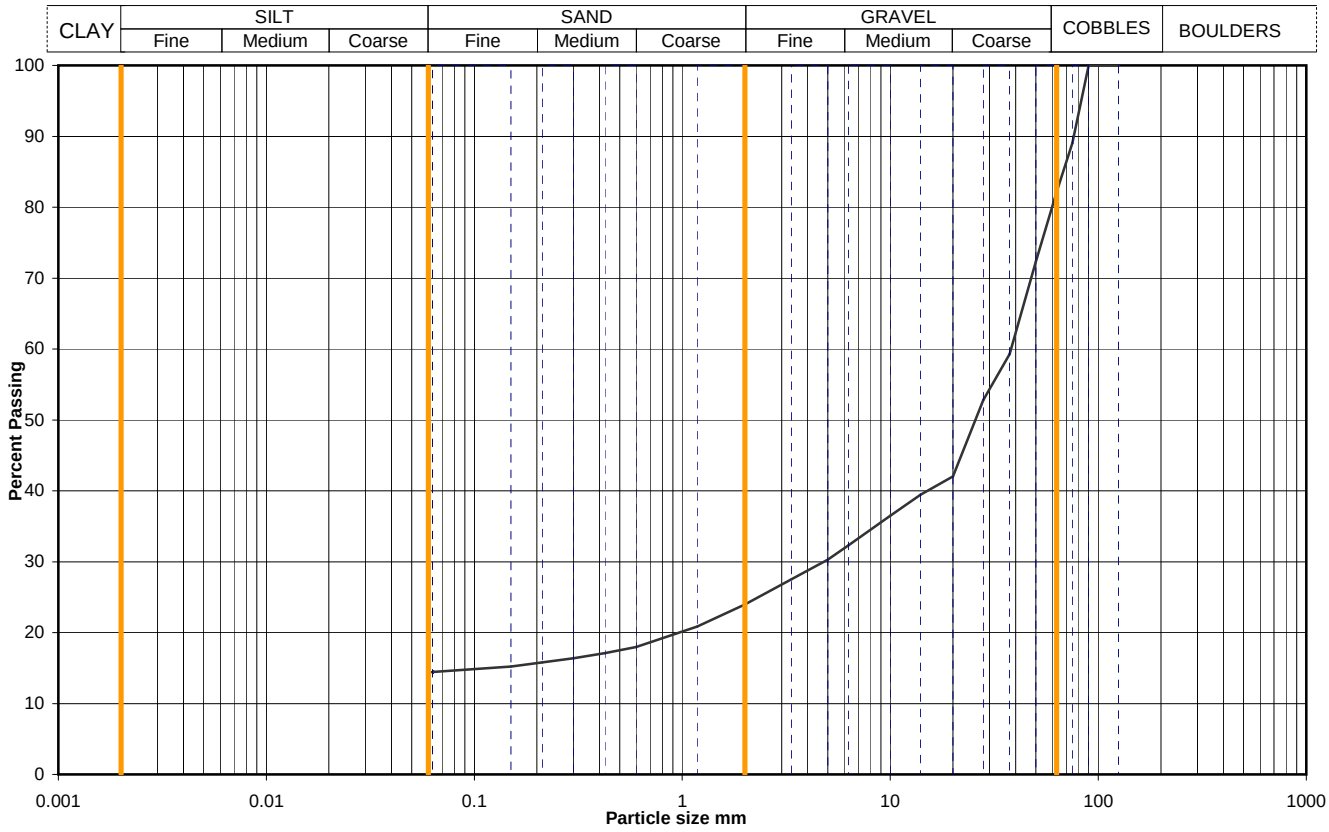
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH201		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	2.20		
			Samp No	2	Type	X
			ID	MASTER3242		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	89		
63	82		
50	72		
37.5	59		
28	53		
20	42		
14	39		
10	36		
6.3	32		
5.0	30		
3.35	28		
2.00	24		
1.18	21		
0.600	18		
0.425	17		
0.300	16	Dry mass of sample, kg	
0.212	16		
0.150	15	7.8	
0.063	14		

Soil description	Grey slightly sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	18	0
	Gravel	58	71
	Sand	10	12
	Silt	silt+clay =	
	Clay	14	17

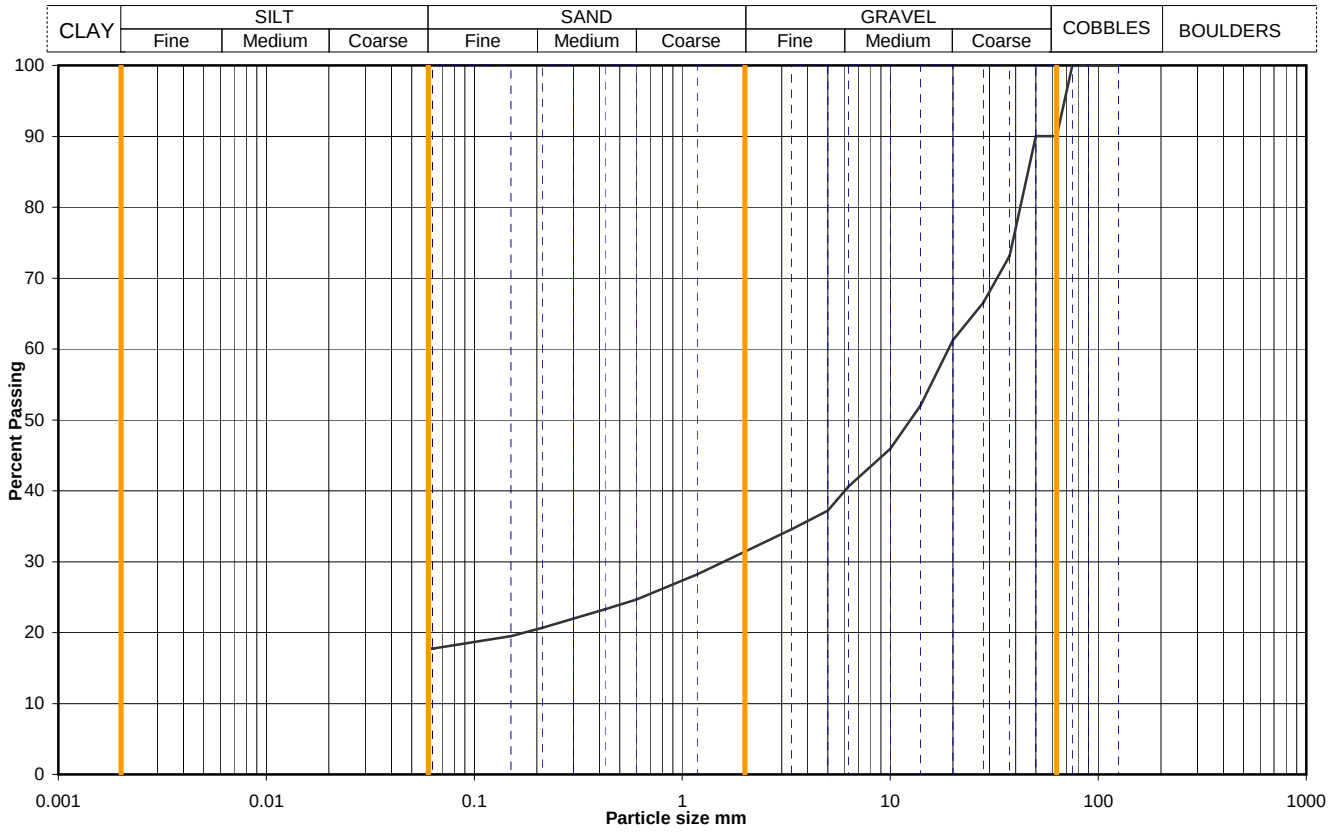
Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36	**Figure** **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH201		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	3.70		
			Samp No	10	Type	X
			ID	MASTER3243		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	90		
50	90		
37.5	73		
28	67		
20	61		
14	52		
10	46		
6.3	41		
5.0	37		
3.35	35		
2.00	31		
1.18	28		
0.600	25		
0.425	23		
0.300	22	Dry mass of sample, kg	
0.212	21		
0.150	20	4.8	
0.063	18		

Soil description	Grey slightly sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	10	0
	Gravel	59	66
	Sand	14	16
	Silt	silt+clay =	
	Clay	17	19

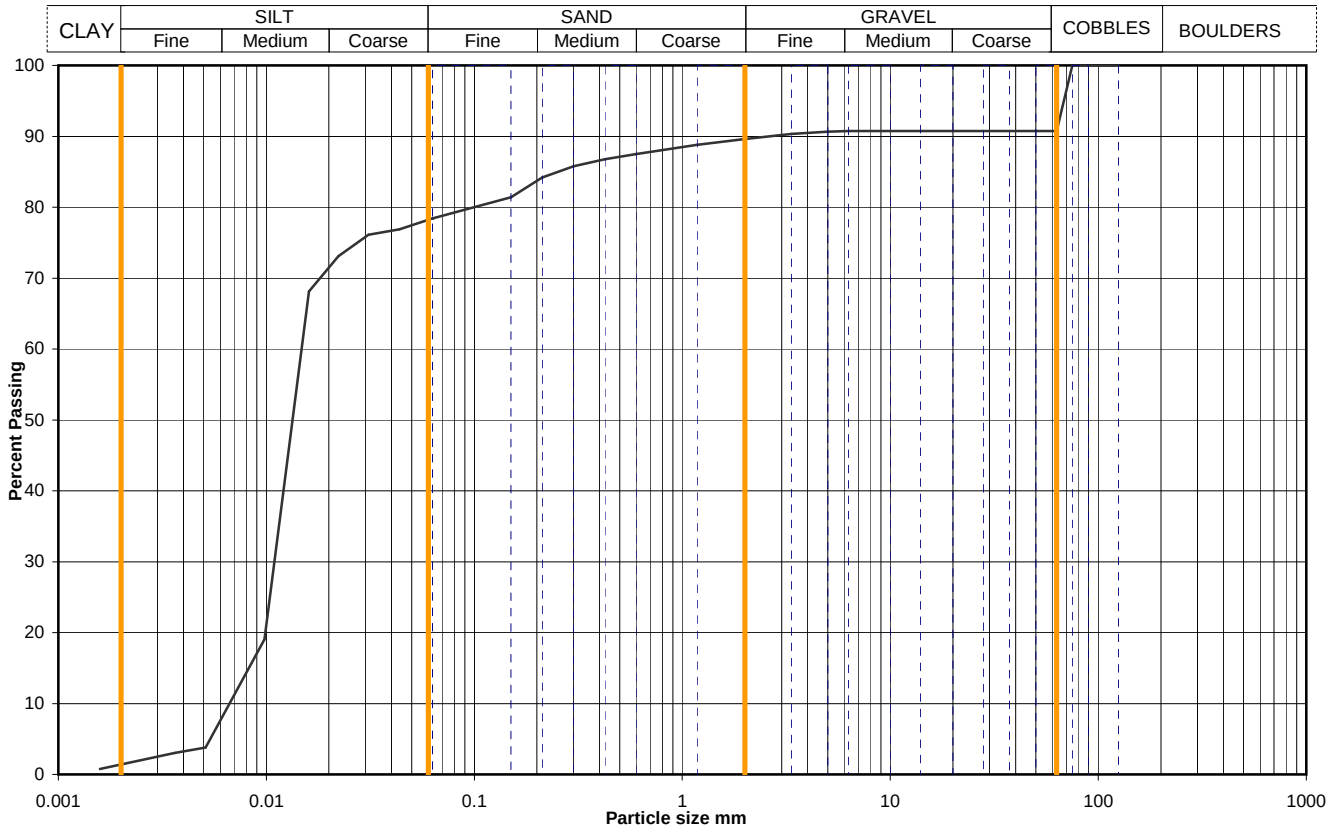
Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36	**Figure** **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH201		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	5.70		
			Samp No	18	Type	X
			ID	MASTER3245		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	78
90	100	0.0437	77
75	100	0.0310	76
63	91	0.0222	73
50	91	0.0160	68
37.5	91	0.0098	19
28	91	0.0051	4
20	91	0.0036	3
14	91	0.0016	1
10	91		
6.3	91		
5.0	91		
3.35	90		
2.00	90		
1.18	89	Particle density, Mg/m3	
0.600	88		
0.425	87	2.65 assumed	
0.300	86	Dry mass of sample, kg	
0.212	84		
0.150	81	5.6	
0.063	78		

Soil description	Grey slightly sandy slightly gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	9	0
	Gravel	1	1
	Sand	11	12
	Silt	77	85
	Clay	2	2

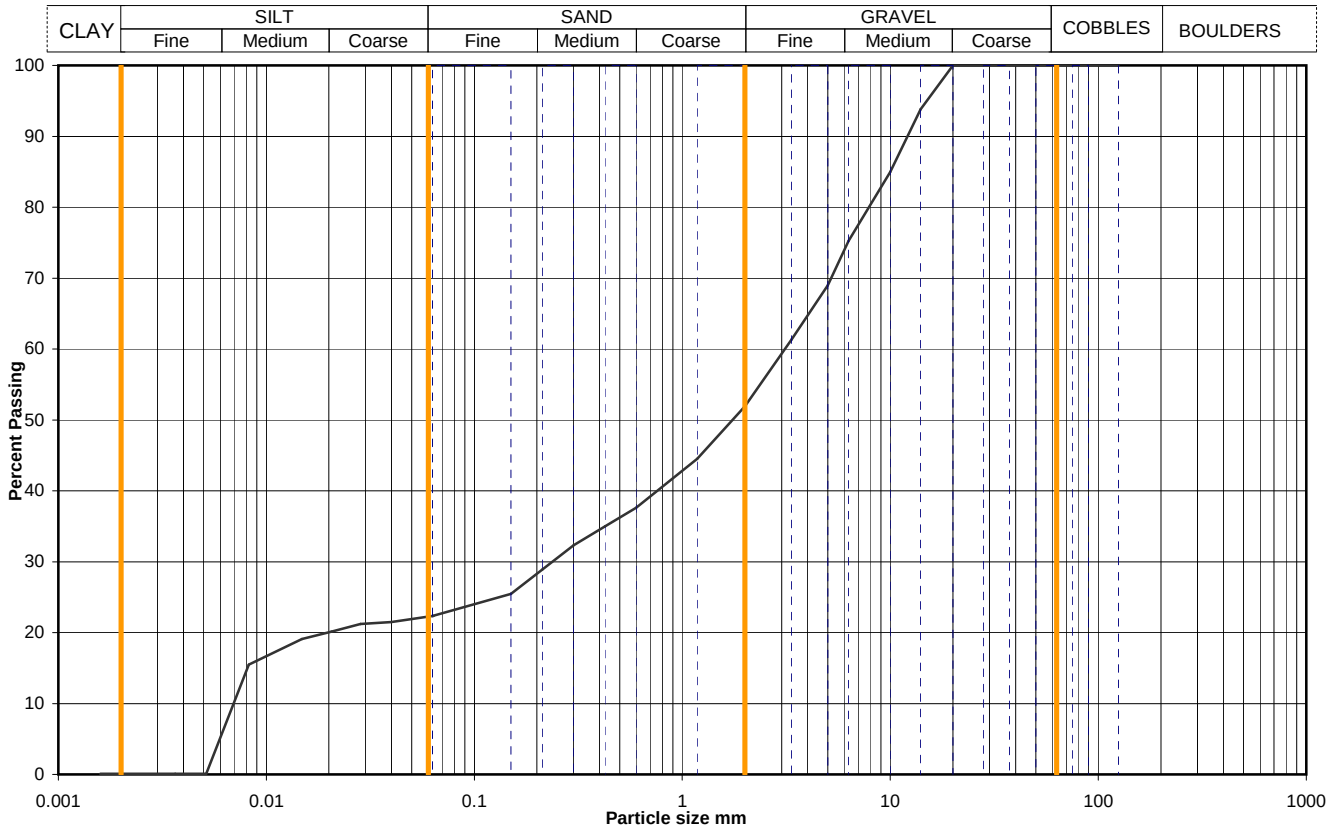
Uniformity Coefficient	D_{60} / D_{10}	2

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36	**Figure** **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.00		
			Samp No	5	Type	B
			ID	MASTER3171		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	22
90	100	0.0398	21
75	100	0.0283	21
63	100	0.0205	20
50	100	0.0148	19
37.5	100	0.0082	15
28	100	0.0051	0
20	100	0.0036	0
14	94	0.0016	0
10	85		
6.3	75		
5.0	69		
3.35	61		
2.00	52		
1.18	44	Particle density, Mg/m3	
0.600	38		
0.425	35	2.65 assumed	
0.300	32	Dry mass of sample, kg	
0.212	29		
0.150	25	5.1	
0.063	22		

Soil description	Brown slightly sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	48	48
	Sand	30	30
	Silt	22	22
	Clay	0	0

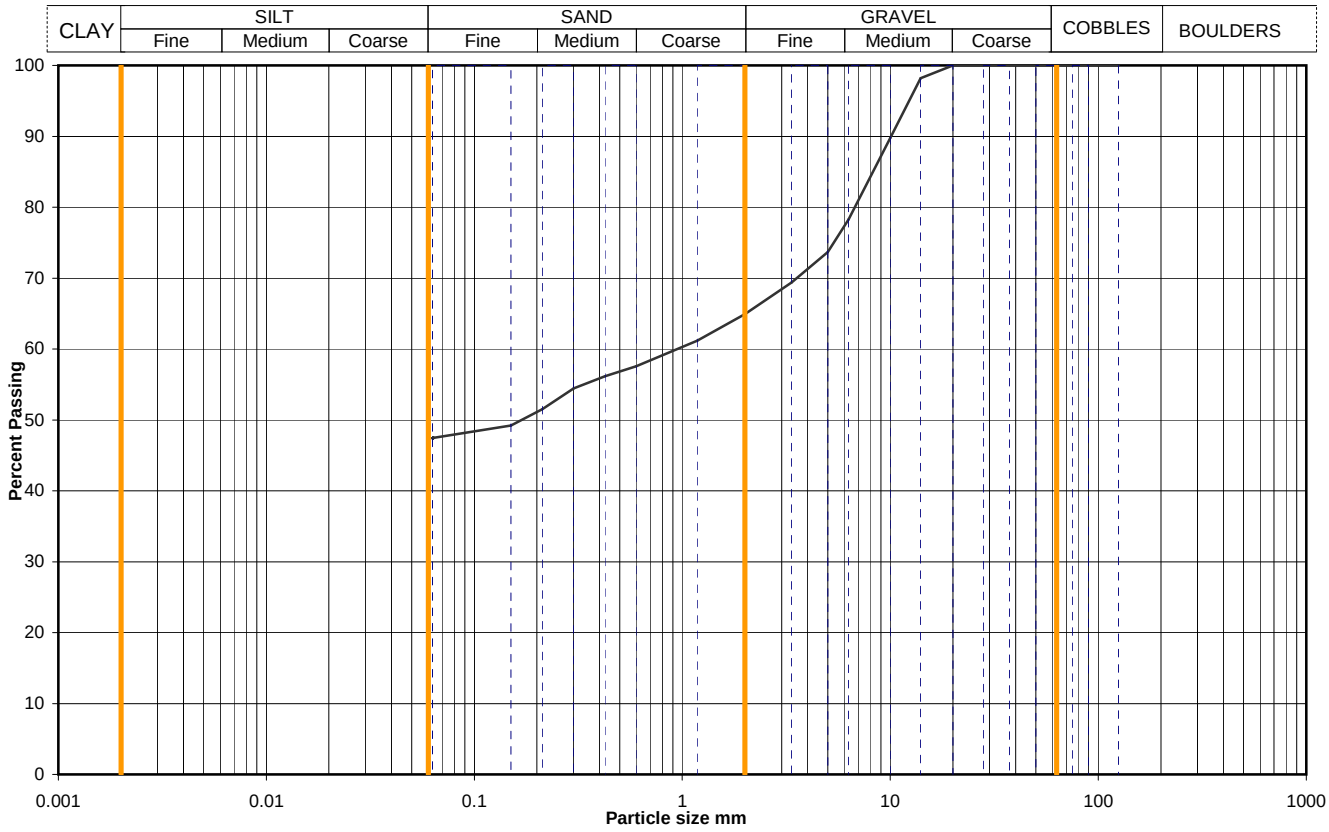
Uniformity Coefficient	D_{60} / D_{10}	447

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36	**Figure** **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	3.00		
			Samp No	16	Type	B
			ID	MASTER3175		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	90		
6.3	78		
5.0	74		
3.35	69		
2.00	65		
1.18	61		
0.600	58		
0.425	56		
0.300	54	Dry mass of sample, kg	
0.212	51		
0.150	49	9.2	
0.063	47		

Soil description	Brown slightly sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	35	35
	Sand	17	17
	Silt	silt+clay =	
	Clay	48	48

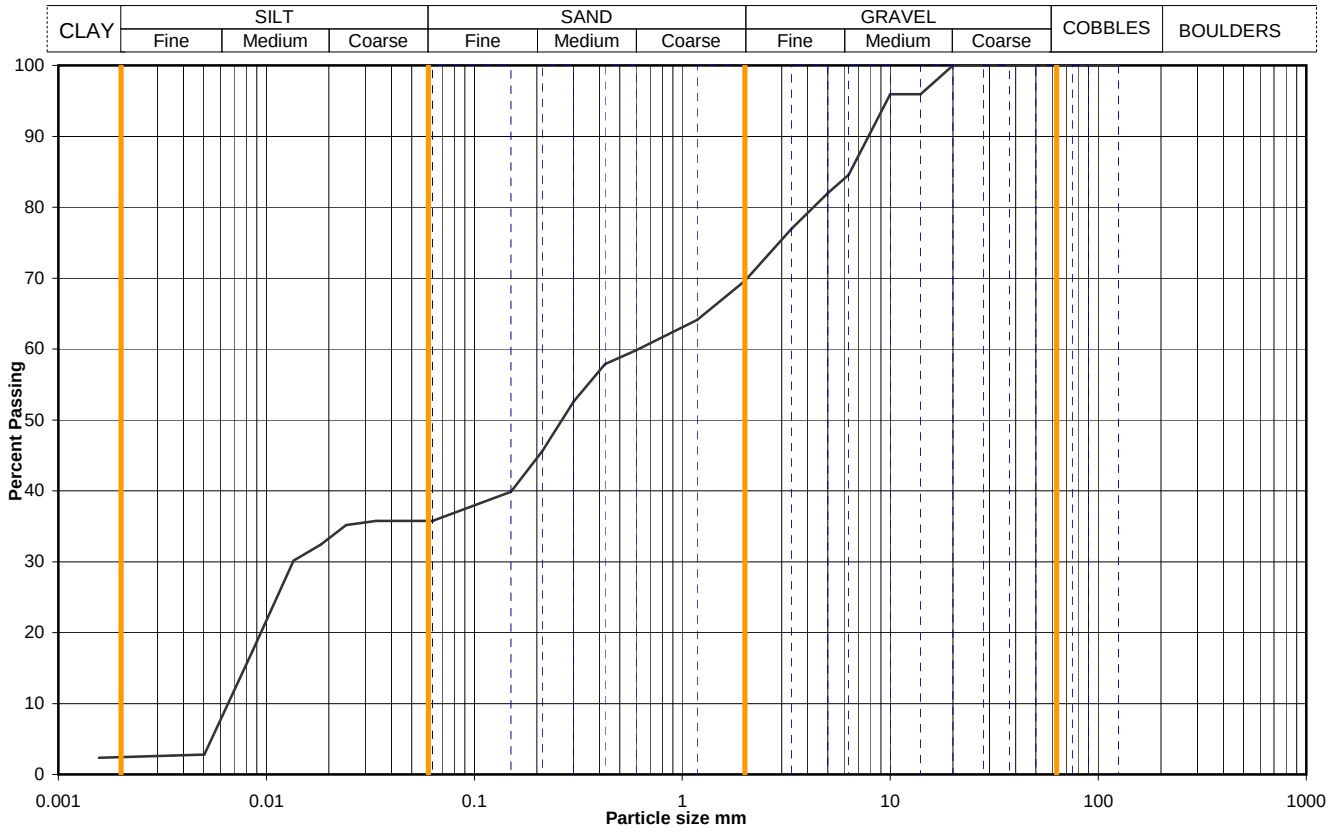
Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36	**Figure** **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	5.00		
			Samp No	23	Type	B
			ID	MASTER3177		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	36
90	100	0.0337	36
75	100	0.0242	35
63	100	0.0183	32
50	100	0.0135	30
37.5	100	0.0086	17
28	100	0.0050	3
20	100	0.0036	3
14	96	0.0016	2
10	96		
6.3	85		
5.0	82		
3.35	77		
2.00	70		
1.18	64	Particle density, Mg/m3	
0.600	60		
0.425	58	2.65 assumed	
0.300	53	Dry mass of sample, kg	
0.212	46		
0.150	40	5.5	
0.063	36		

Soil description	Grey slightly sandy slightly gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	30	30
	Sand	34	34
	Silt	33	33
	Clay	3	3

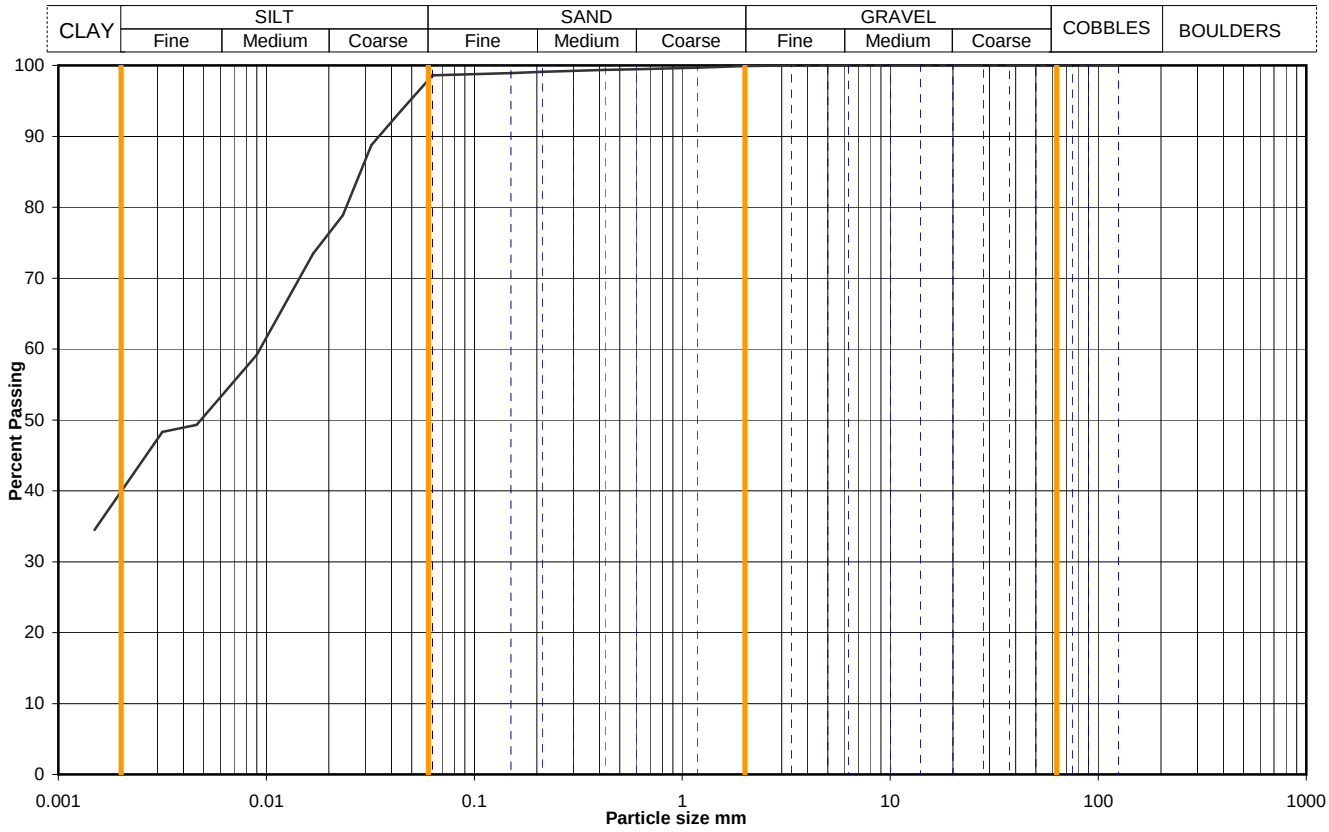
Uniformity Coefficient	D_{60} / D_{10}	94

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36	**Figure** **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	15.50		
			Samp No	57	Type	B
			ID	MASTER3222		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	99
90	100	0.0446	94
75	100	0.0320	89
63	100	0.0233	79
50	100	0.0168	73
37.5	100	0.0090	59
28	100	0.0046	49
20	100	0.0032	48
14	100	0.0015	35
10	100		
6.3	100		
5.0	100		
3.35	100		
2.00	100		
1.18	100	Particle density, Mg/m3	
0.600	99		
0.425	99	2.65 assumed	
0.300	99	Dry mass of sample, kg	
0.212	99		
0.150	99	2.0	
0.063	99		

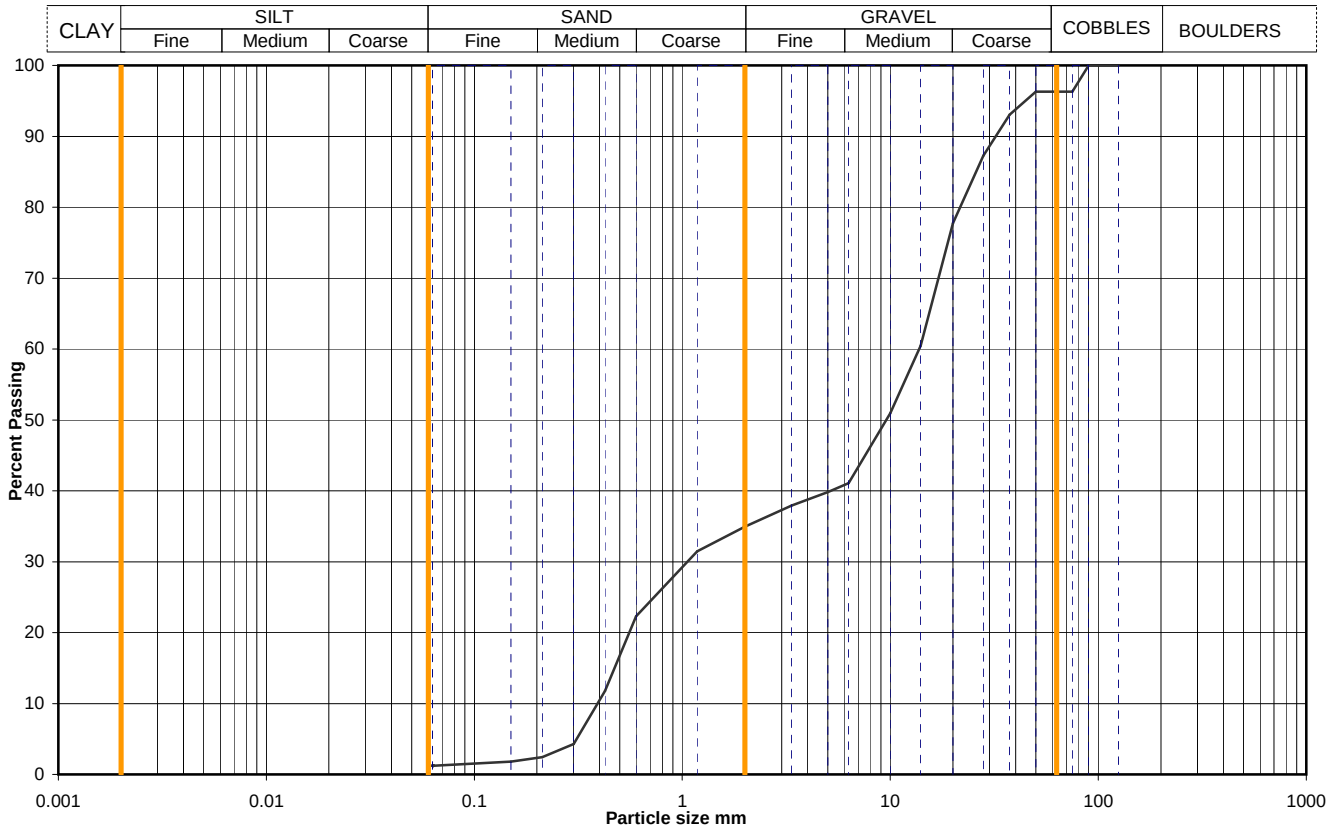
Soil description	Grey CLAY with rare plant remains and shell fragments.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	0	0
	Sand	2	2
	Silt	58	58
	Clay	40	40

Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	18.40		
			Samp No	68	Type	B
			ID	MASTER3225		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	96		
63	96		
50	96		
37.5	93		
28	87		
20	78		
14	60		
10	51		
6.3	41		
5.0	40		
3.35	38		
2.00	35		
1.18	31		
0.600	22		
0.425	12		
0.300	4	Dry mass of sample, kg	
0.212	2		
0.150	2	24.9	
0.063	1		

Soil description	Brown very sandy GRAVEL with one cobble.		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	4	0
	Gravel	61	64
	Sand	34	35
	Silt	silt+clay =	
	Clay	1	1

Uniformity Coefficient	D_{60} / D_{10}	35

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

QA Ref SLR 2,9 Rev 88 Aug 11	Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36

Figure **PSD**

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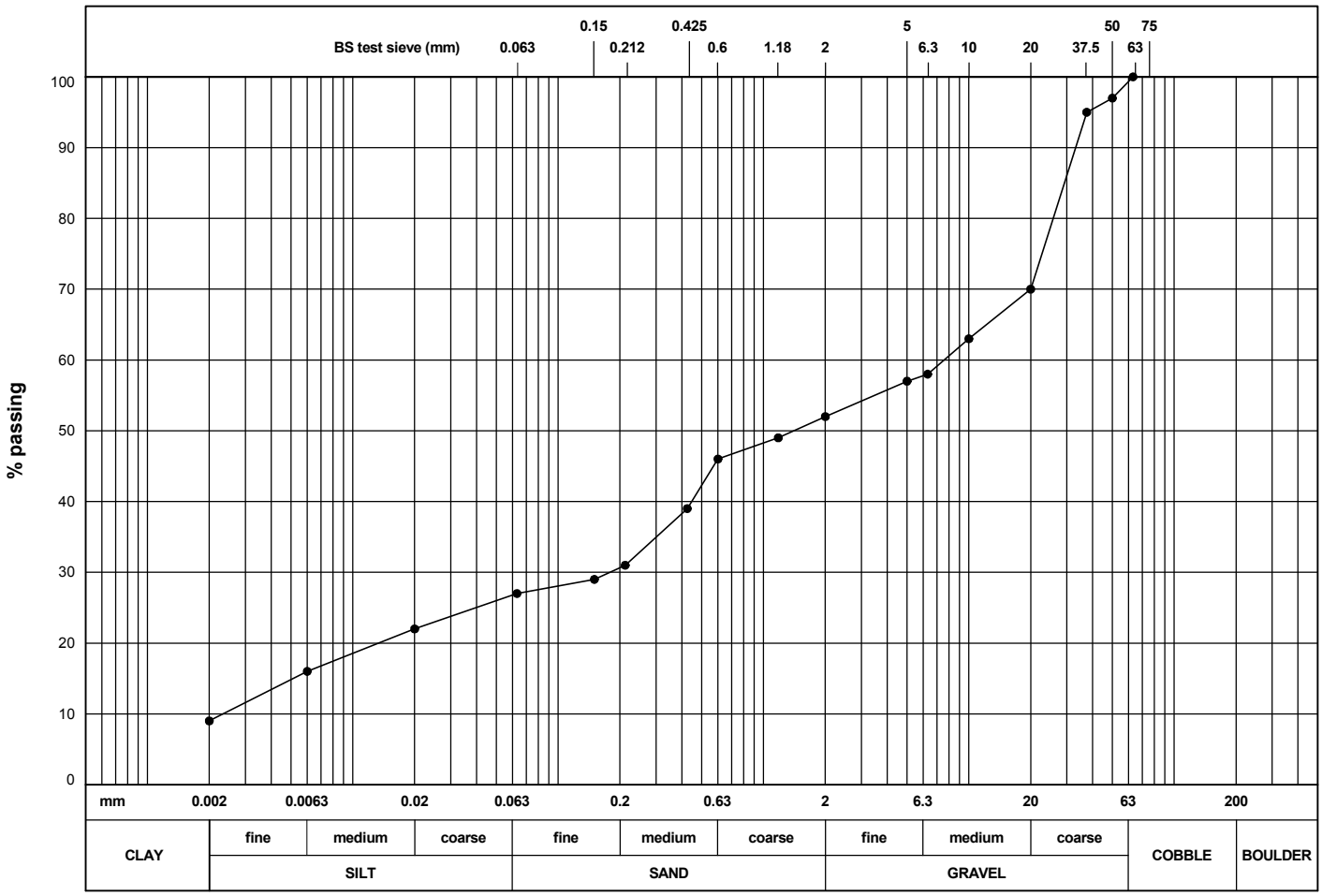
SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown silty very sandy GRAVEL

BH/TP No.	BH203
SAMPLE No./TYPE	9B
SAMPLE DEPTH (m)	2.40
SPECIMEN DEPTH (m)	2.40



soil type	% fraction
CLAY	9
SILT	18
SILT & CLAY	27
SAND	25
GRAVEL	47
COBBLE & BOULDER	1
test method(s)	9.2 & 9.4

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	57	20	22
75		2	52	6	16
63	100	1.18	49	2	9
50	97	0.6	46		
37.5	95	0.425	39		
20	70	0.212	31		
10	63	0.15	29		
6.3	58	0.063	27		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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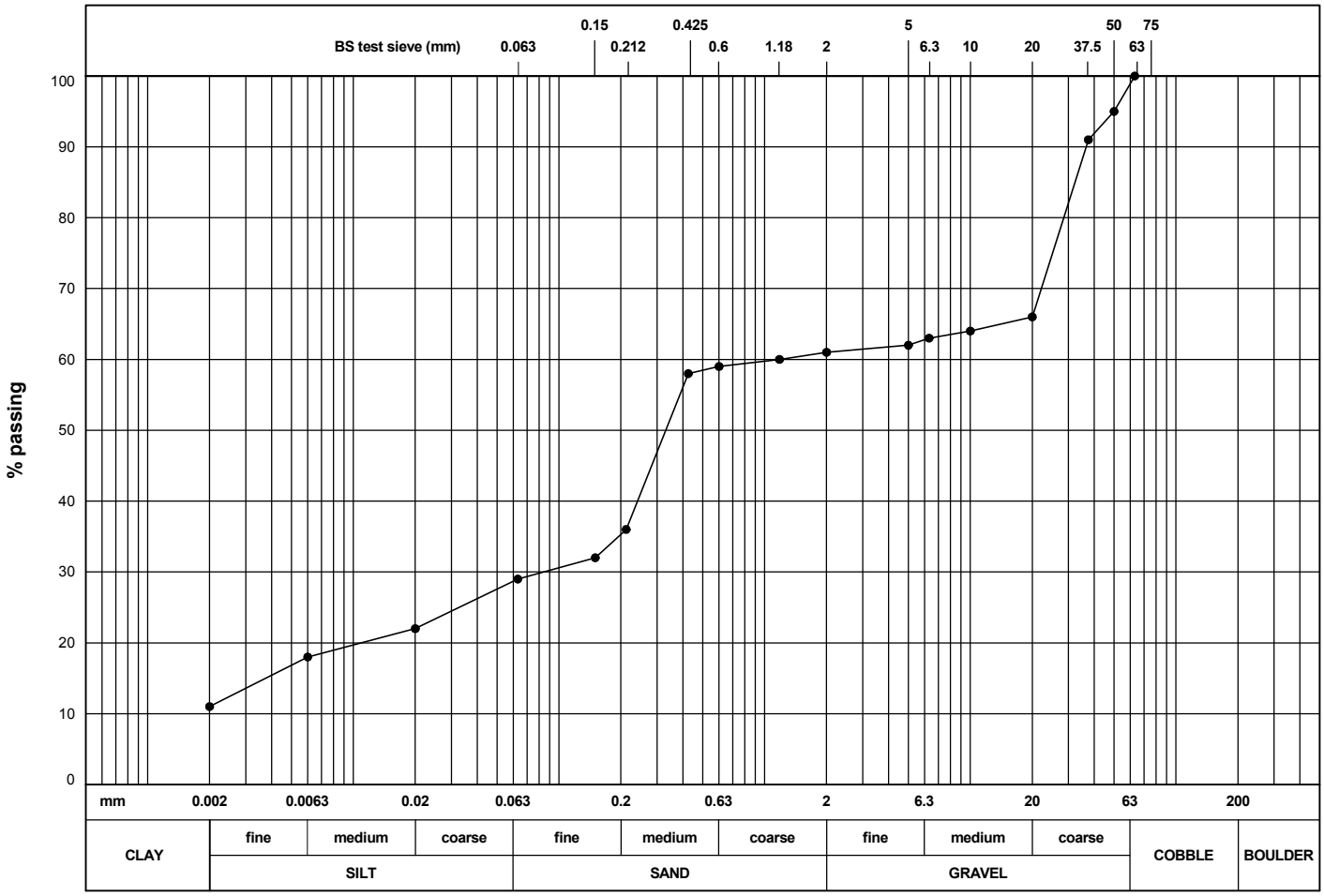
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Grey silty very sandy GRAVEL

BH/TP No.	BH203
SAMPLE No./TYPE	20B
SAMPLE DEPTH (m)	6.00
SPECIMEN DEPTH (m)	6.00



soil type	% fraction
CLAY	11
SILT	18
SILT & CLAY	29
SAND	32
GRAVEL	38
COBBLE & BOULDER	1
test method(s)	9.2 & 9.4

BS test sieve (mm)	% passing
150	
75	
63	100
50	95
37.5	91
20	66
10	64
6.3	63

BS test sieve (mm)	% passing
5	62
2	61
1.18	60
0.6	59
0.425	58
0.212	36
0.15	32
0.063	29

particle size (μm)	% finer
20	22
6	18
2	11

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

CONTRACT	CHECKED
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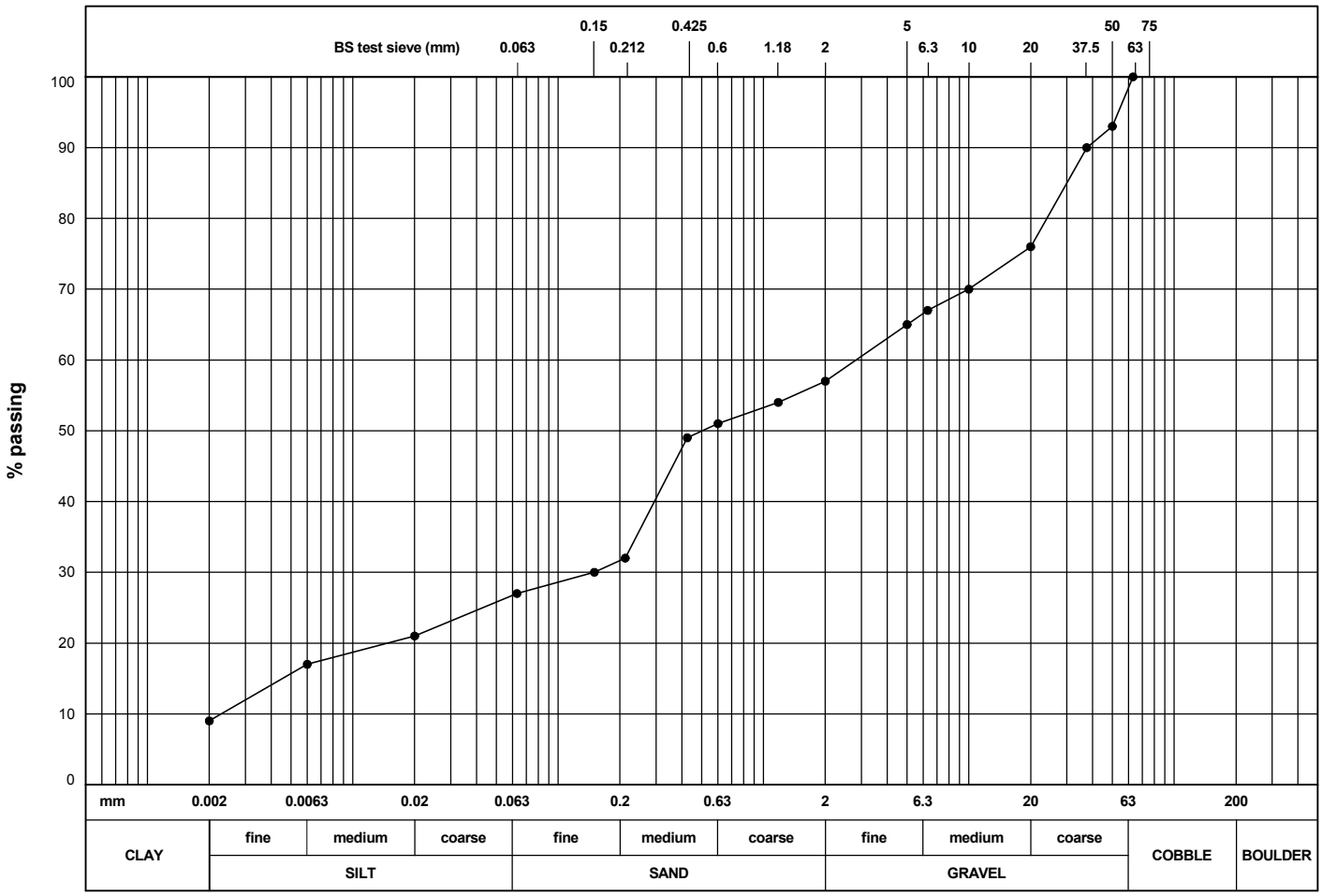
BS.1377 : Part 2 : 1990 : 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Grey silty very sandy GRAVEL

BH/TP No.	BH203
SAMPLE No./TYPE	28B
SAMPLE DEPTH (m)	9.00
SPECIMEN DEPTH (m)	9.00



soil type	% fraction
CLAY	9
SILT	18
SILT & CLAY	27
SAND	30
GRAVEL	42
COBBLE & BOULDER	1
test method(s)	9.2# & 9.4

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	65	20	21
75		2	57	6	17
63	100	1.18	54	2	9
50	93	0.6	51		
37.5	90	0.425	49		
20	76	0.212	32		
10	70	0.15	30		
6.3	67	0.063	27		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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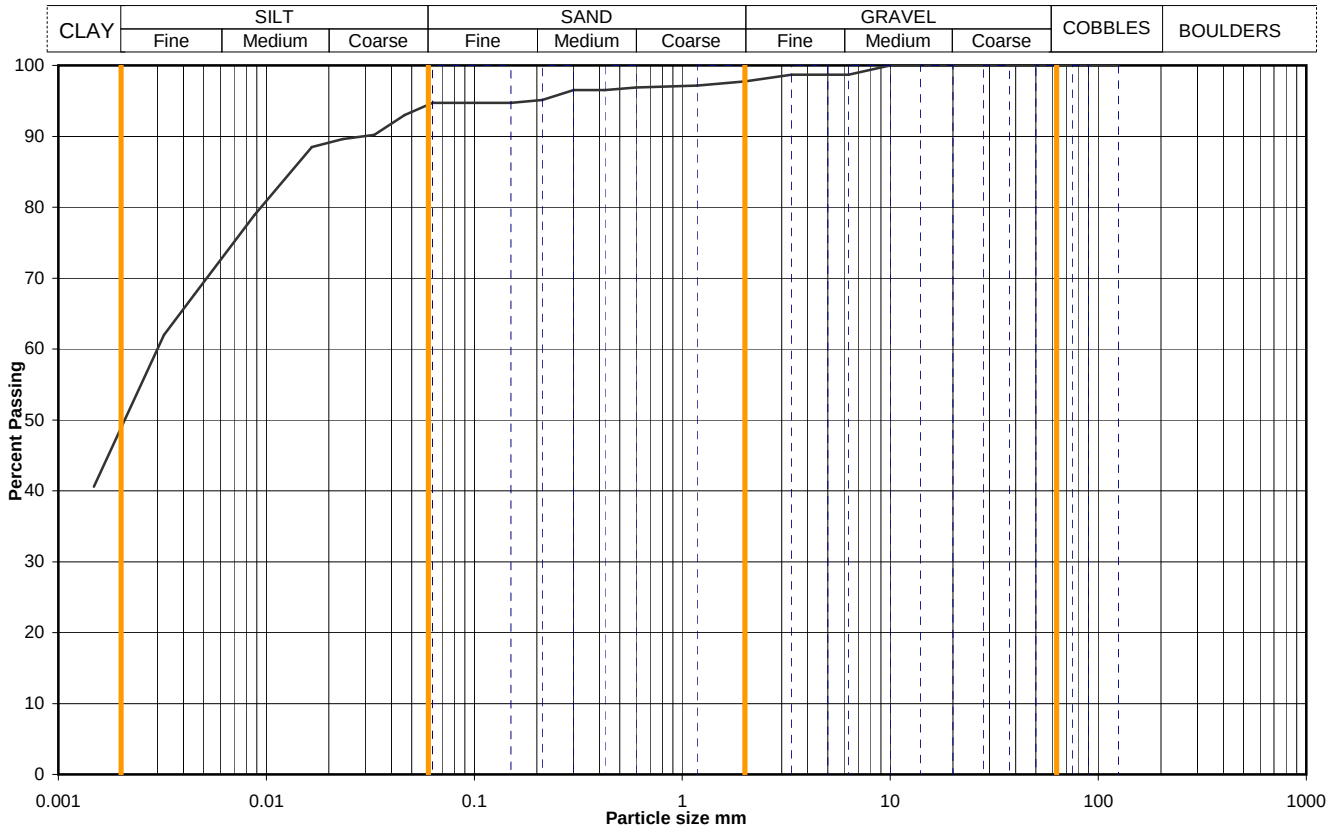
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH204		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	3.30		
			Samp No	11	Type	B
			ID	MASTER3304		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	95
90	100	0.0463	93
75	100	0.0330	90
63	100	0.0234	90
50	100	0.0166	88
37.5	100	0.0088	79
28	100	0.0045	68
20	100	0.0032	62
14	100	0.0015	41
10	100		
6.3	99		
5.0	99		
3.35	99		
2.00	98		
1.18	97	Particle density, Mg/m3	
0.600	97		
0.425	97	2.65 assumed	
0.300	97	Dry mass of sample, kg	
0.212	95		
0.150	95	7.0	
0.063	95		

Soil description	Black slightly sandy slightly gravelly CLAY.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	2	2
	Sand	3	3
	Silt	46	46
	Clay	49	49

Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:36	**Figure** **PSD**

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PARTICLE SIZE DISTRIBUTION

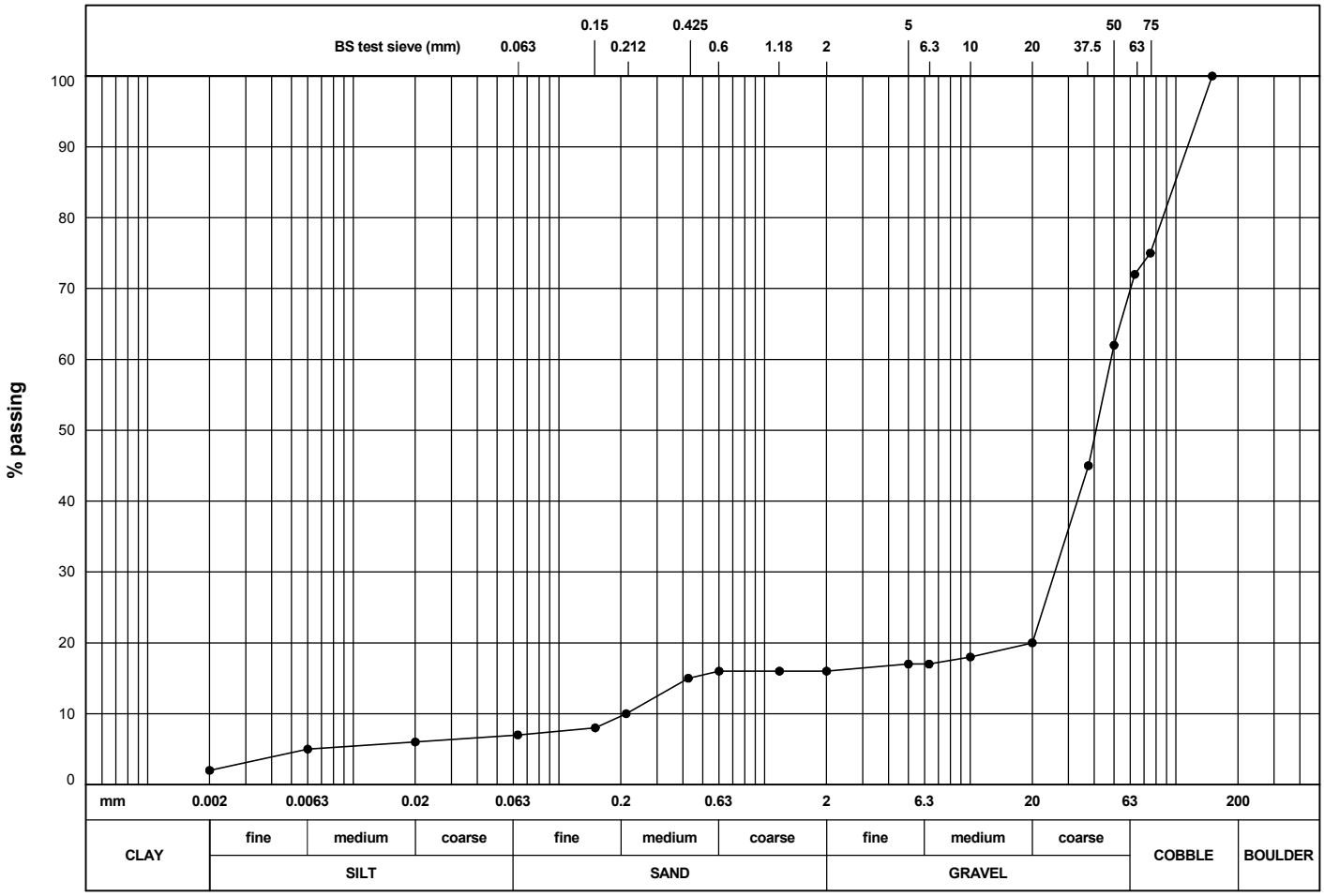
BS.1377 : Part 2 : 1990 : 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Greyish brown silty sandy GRAVEL with medium cobble content

BH/TP No.	BH204
SAMPLE No./TYPE	30B
SAMPLE DEPTH (m)	9.00
SPECIMEN DEPTH (m)	9.00



soil type	% fraction
CLAY	2
SILT	5
SILT & CLAY	7
SAND	9
GRAVEL	54
COBBLE & BOULDER	30
test method(s)	9.2# & 9.4

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150	100	5	17	20	6
75	75	2	16	6	5
63	72	1.18	16	2	2
50	62	0.6	16		
37.5	45	0.425	15		
20	20	0.212	10		
10	18	0.15	8		
6.3	17	0.063	7		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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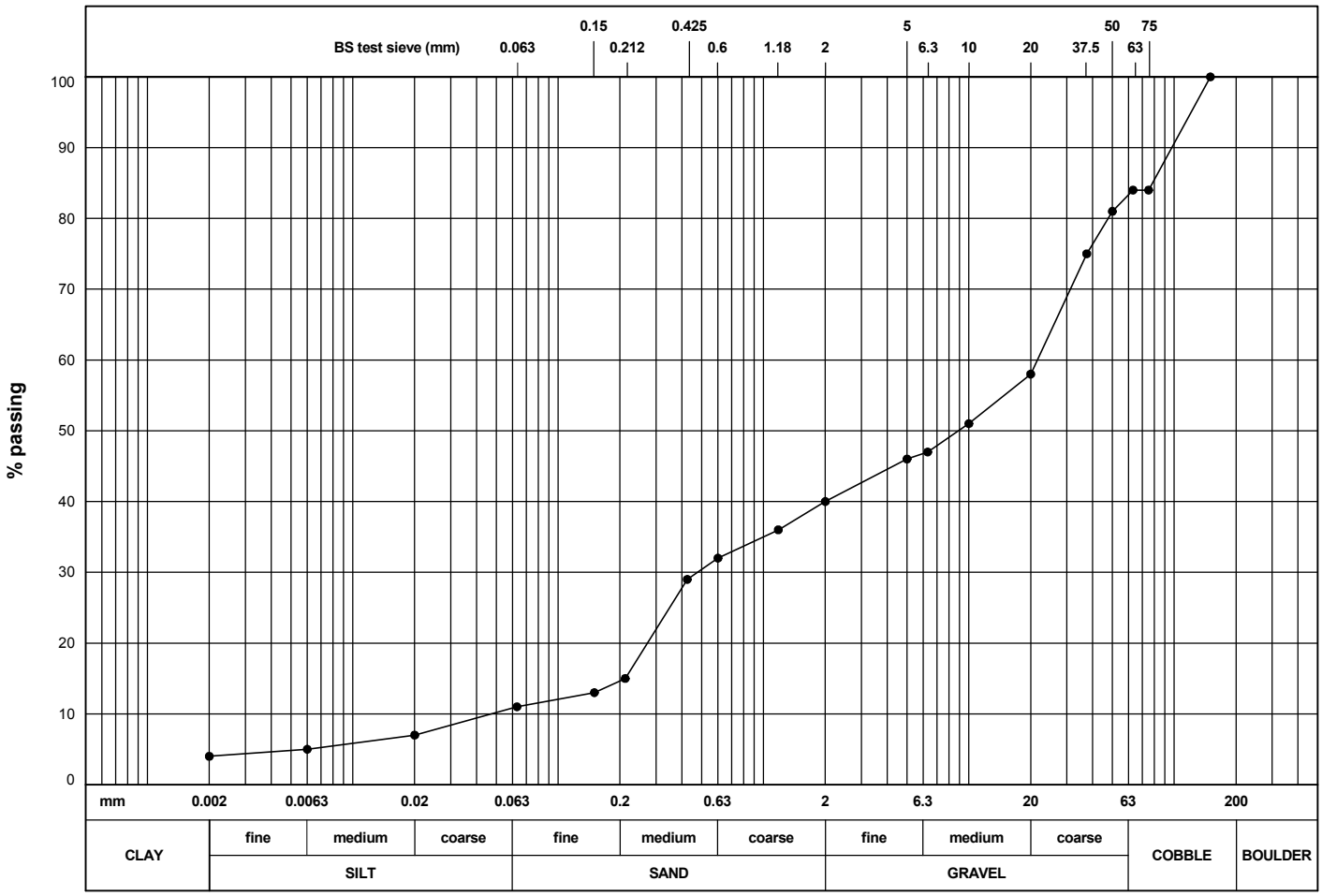
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH204
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	39B
		SAMPLE DEPTH (m)	11.80
DESCRIPTION	Light brown silty very sandy GRAVEL with medium cobble content	SPECIMEN DEPTH (m)	11.80



soil type	% fraction
CLAY	4
SILT	7
SILT & CLAY	11
SAND	29
GRAVEL	43
COBBLE & BOULDER	17
test method(s)	9.2# & 9.4

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150	100	5	46	20	7
75	84	2	40	6	5
63	84	1.18	36	2	4
50	81	0.6	32		
37.5	75	0.425	29		
20	58	0.212	15		
10	51	0.15	13		
6.3	47	0.063	11		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
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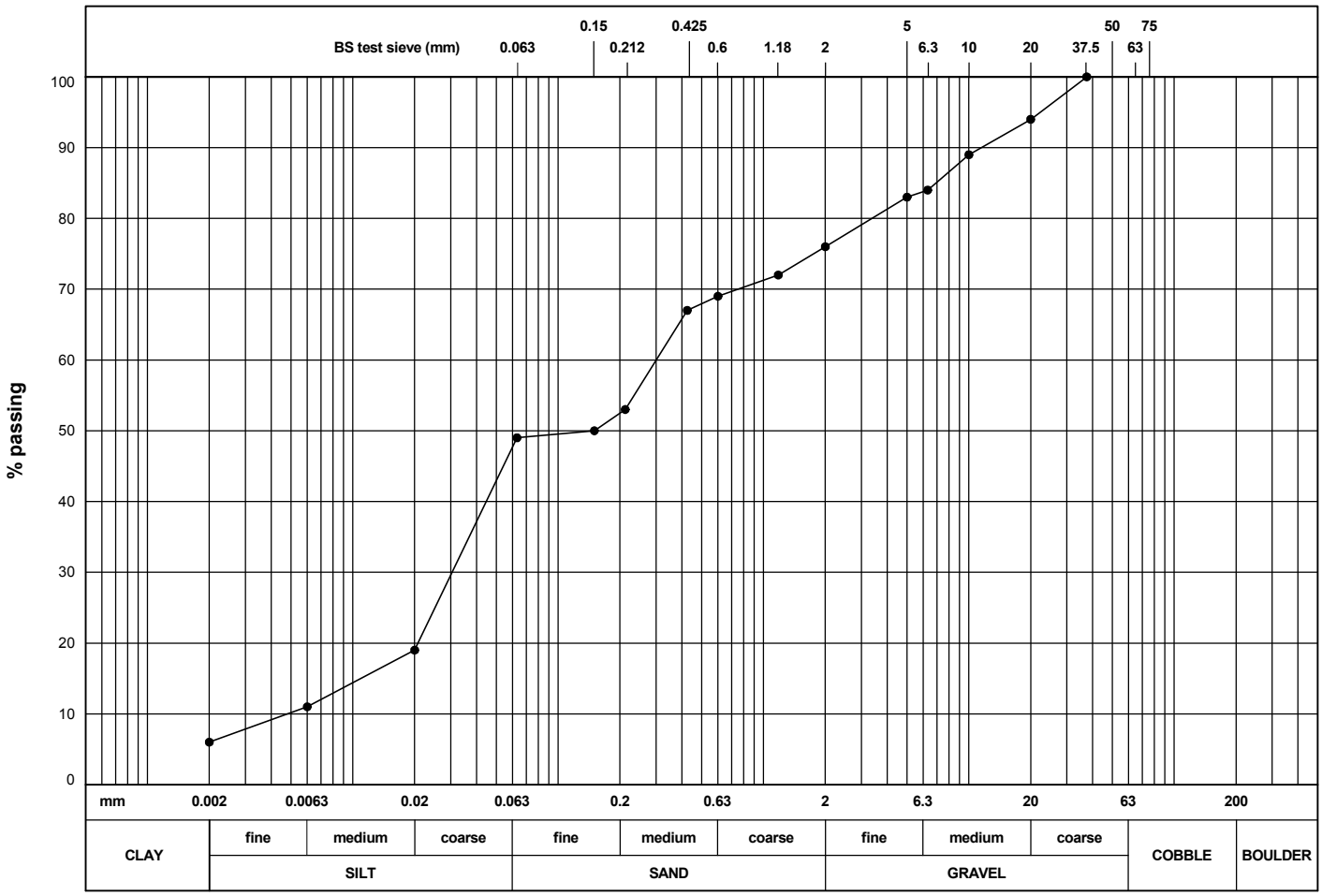
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH501
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	5B
		SAMPLE DEPTH (m)	1.00
DESCRIPTION	White slightly sandy slightly gravelly SILT. Gravel is CHALK	SPECIMEN DEPTH (m)	1.00



soil type	% fraction
CLAY	6
SILT	43
SILT & CLAY	49
SAND	27
GRAVEL	24
COBBLE & BOULDER	0
test method(s)	9.2&9.4

BS test sieve (mm)	% passing
150	
75	
63	
50	
37.5	100
20	94
10	89
6.3	84

BS test sieve (mm)	% passing
5	83
2	76
1.18	72
0.6	69
0.425	67
0.212	53
0.15	50
0.063	49

particle size (μm)	% finer
20	19
6	11
2	6

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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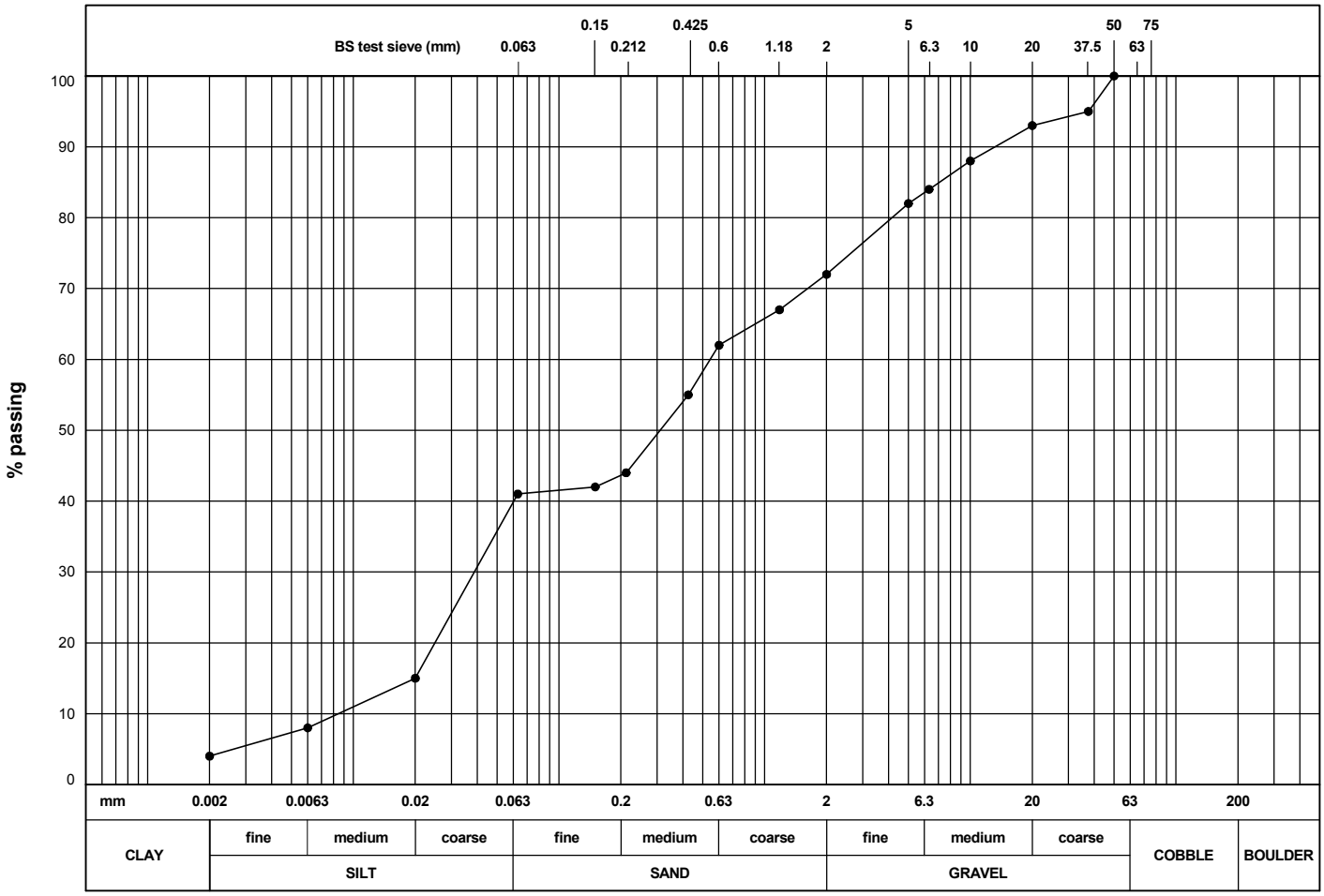
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH501
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	12X
		SAMPLE DEPTH (m)	2.20
DESCRIPTION	White slightly sandy slightly gravelly SILT. Gravel is CHALK	SPECIMEN DEPTH (m)	2.30



soil type	% fraction
CLAY	4
SILT	37
SILT & CLAY	41
SAND	31
GRAVEL	28
COBBLE & BOULDER	0
test method(s)	9.2&9.4

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	82	20	15
75		2	72	6	8
63		1.18	67	2	4
50	100	0.6	62		
37.5	95	0.425	55		
20	93	0.212	44		
10	88	0.15	42		
6.3	84	0.063	41		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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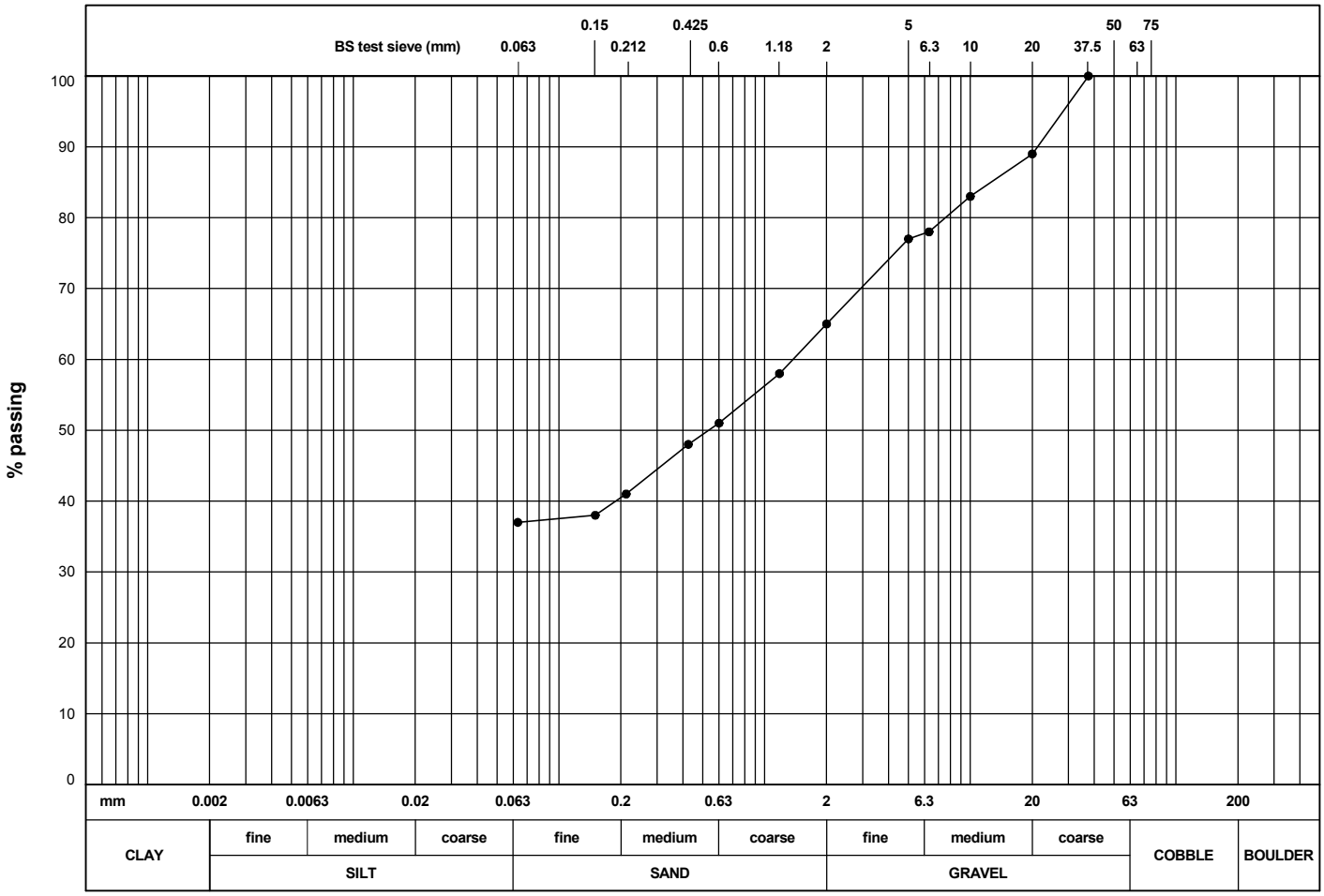
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH501
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	24X
		SAMPLE DEPTH (m)	4.20
DESCRIPTION	White slightly sandy slightly gravelly SILT. Gravel is CHALK	SPECIMEN DEPTH (m)	4.40



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	37
SAND	28
GRAVEL	35
COBBLE & BOULDER	0
test method(s)	9.2

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	77	20	
75		2	65	6	
63		1.18	58	2	
50		0.6	51		
37.5	100	0.425	48		
20	89	0.212	41		
10	83	0.15	38		
6.3	78	0.063	37		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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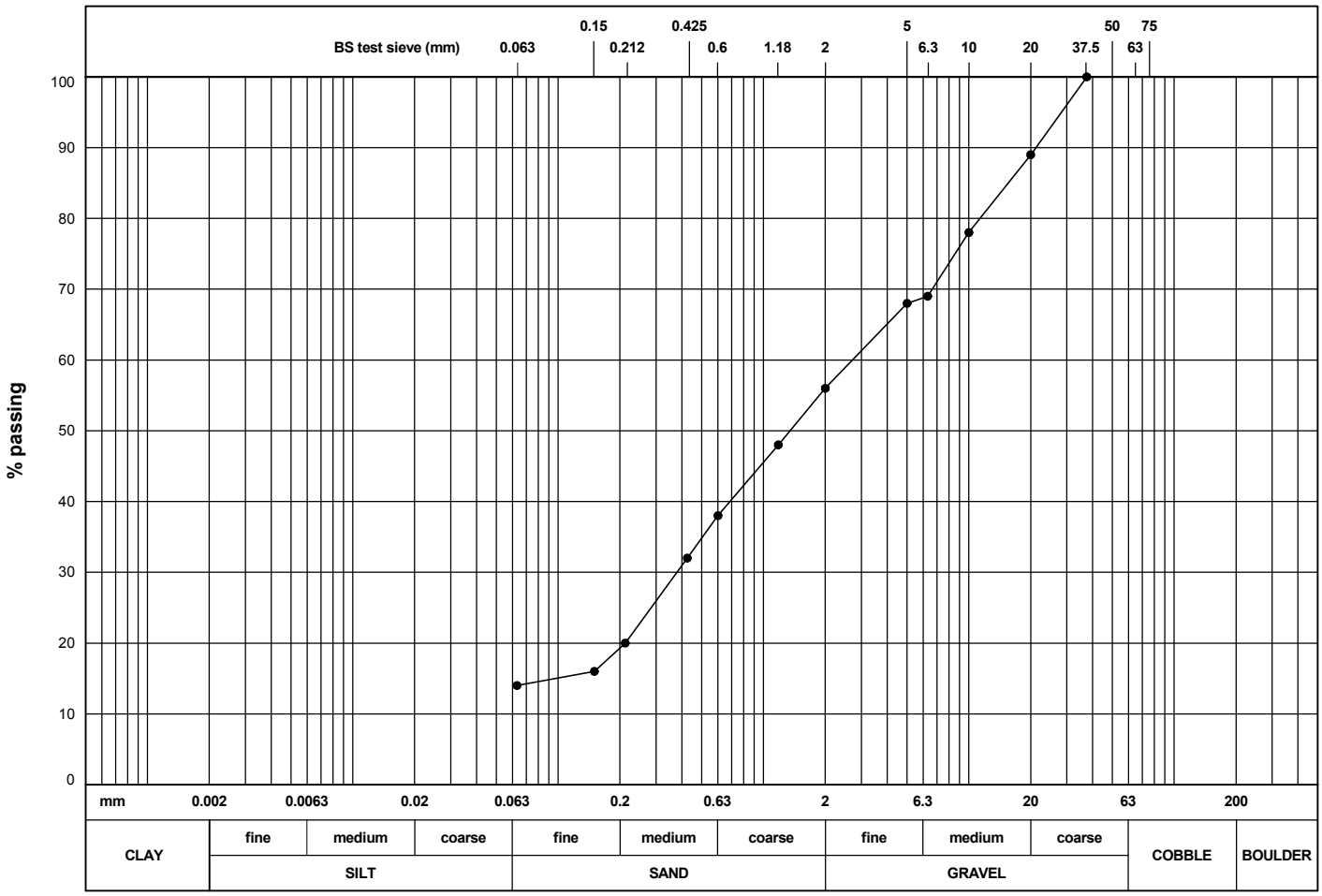
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION White silty sandy GRAVEL. Gravel is CHALK

BH/TP No.	BH501
SAMPLE No./TYPE	36X
SAMPLE DEPTH (m)	6.20
SPECIMEN DEPTH (m)	6.50



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	14
SAND	42
GRAVEL	44
COBBLE & BOULDER	0
test method(s)	9.2

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	68	20	
75		2	56	6	
63		1.18	48	2	
50		0.6	38		
37.5	100	0.425	32		
20	89	0.212	20		
10	78	0.15	16		
6.3	69	0.063	14		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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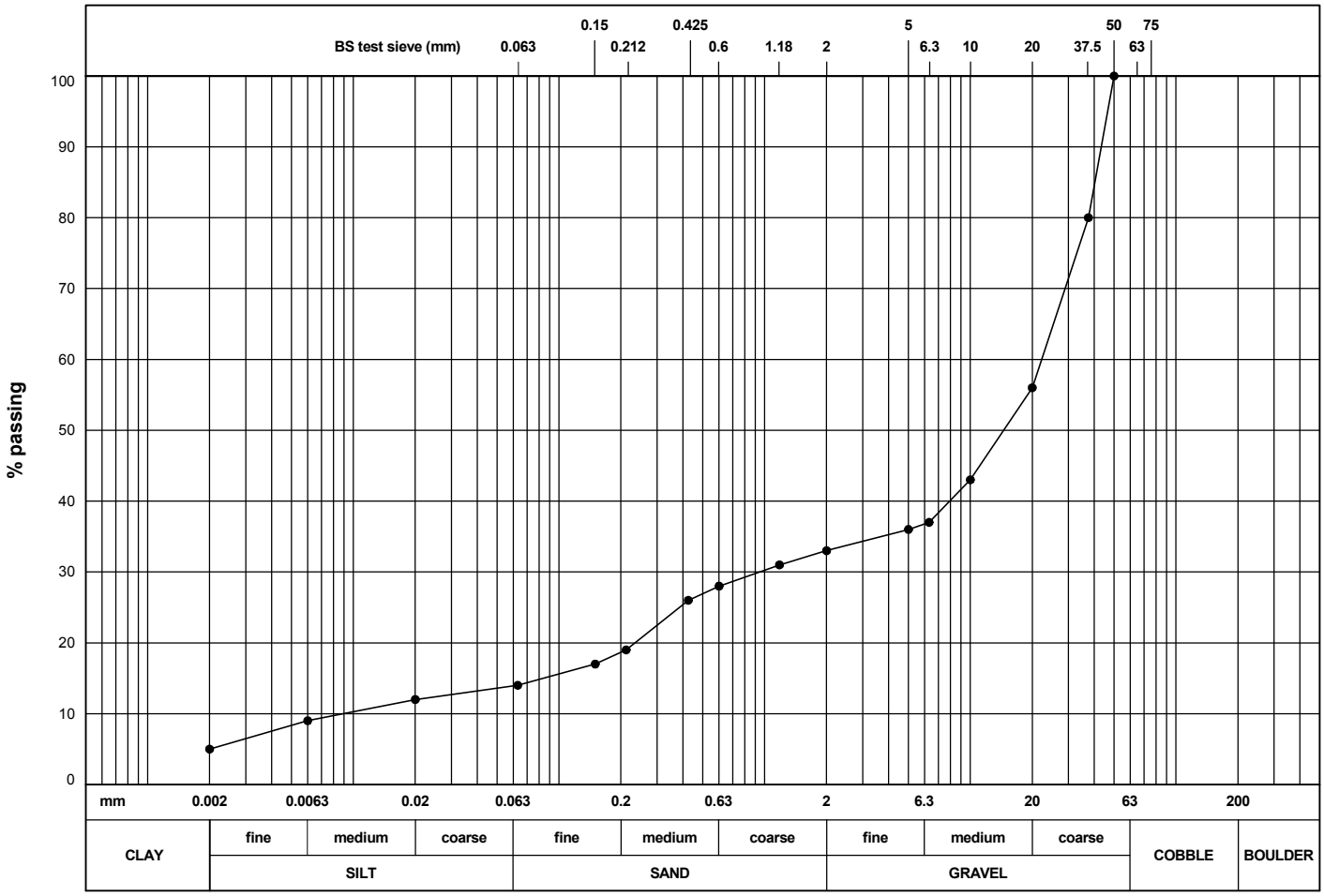
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH501
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	44X
		SAMPLE DEPTH (m)	8.20
DESCRIPTION	Brown mottled white silty sandy GRAVEL	SPECIMEN DEPTH (m)	8.25



soil type	% fraction
CLAY	5
SILT	9
SILT & CLAY	14
SAND	19
GRAVEL	67
COBBLE & BOULDER	0
test method(s)	9.2&9.4#

BS test sieve (mm)	% passing
150	
75	
63	
50	100
37.5	80
20	56
10	43
6.3	37

BS test sieve (mm)	% passing
5	36
2	33
1.18	31
0.6	28
0.425	26
0.212	19
0.15	17
0.063	14

particle size (μm)	% finer
20	12
6	9
2	5

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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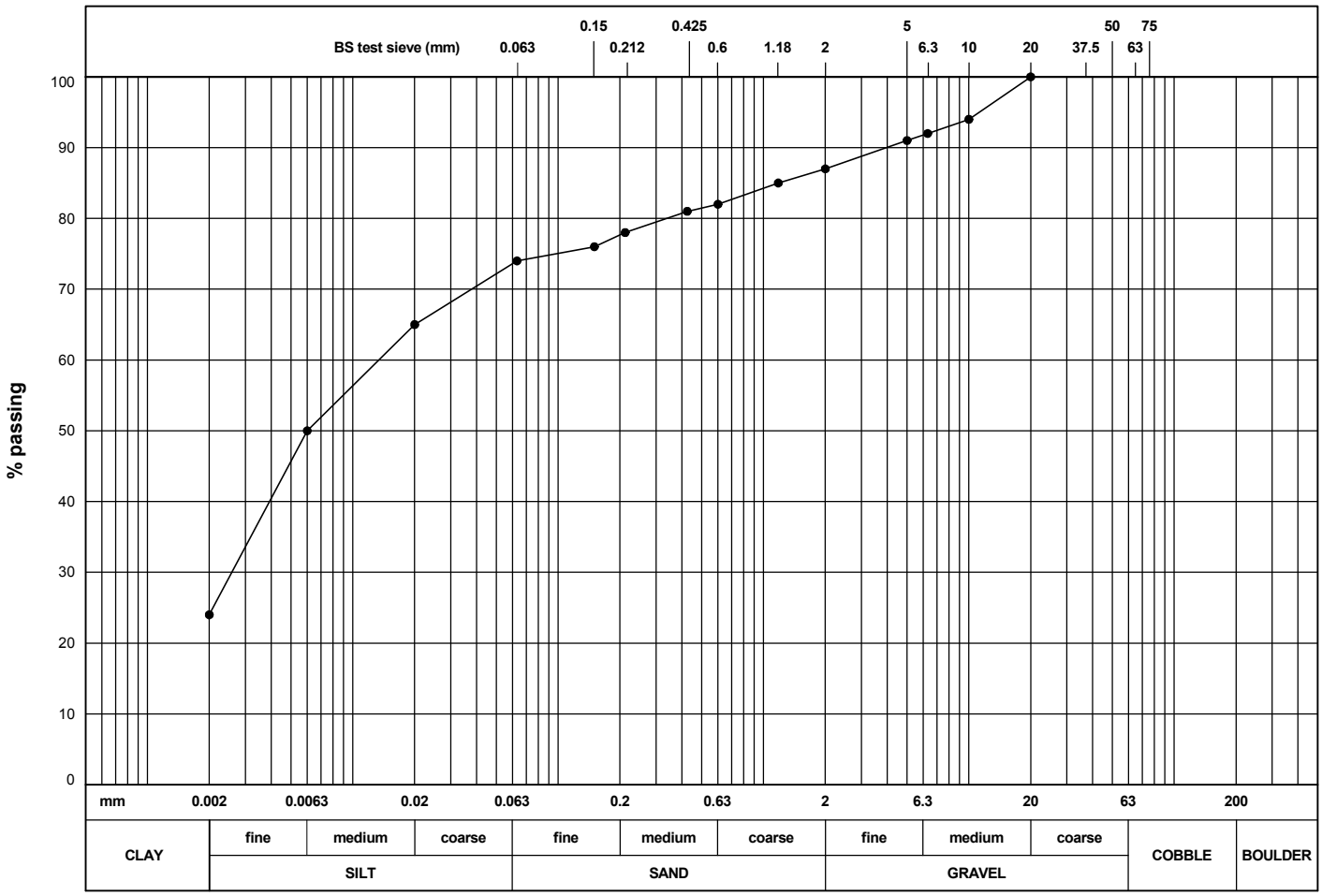
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Off white slightly sandy slightly gravelly CHALK

BH/TP No.	BH502
SAMPLE No./TYPE	5B
SAMPLE DEPTH (m)	1.00
SPECIMEN DEPTH (m)	1.00



soil type	% fraction
CLAY	24
SILT	50
SILT & CLAY	74
SAND	13
GRAVEL	13
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

BS test sieve (mm)	% passing
150	
75	
63	
50	
37.5	
20	100
10	94
6.3	92

BS test sieve (mm)	% passing
5	91
2	87
1.18	85
0.6	82
0.425	81
0.212	78
0.15	76
0.063	74

particle size (μm)	% finer
20	65
6	50
2	24

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
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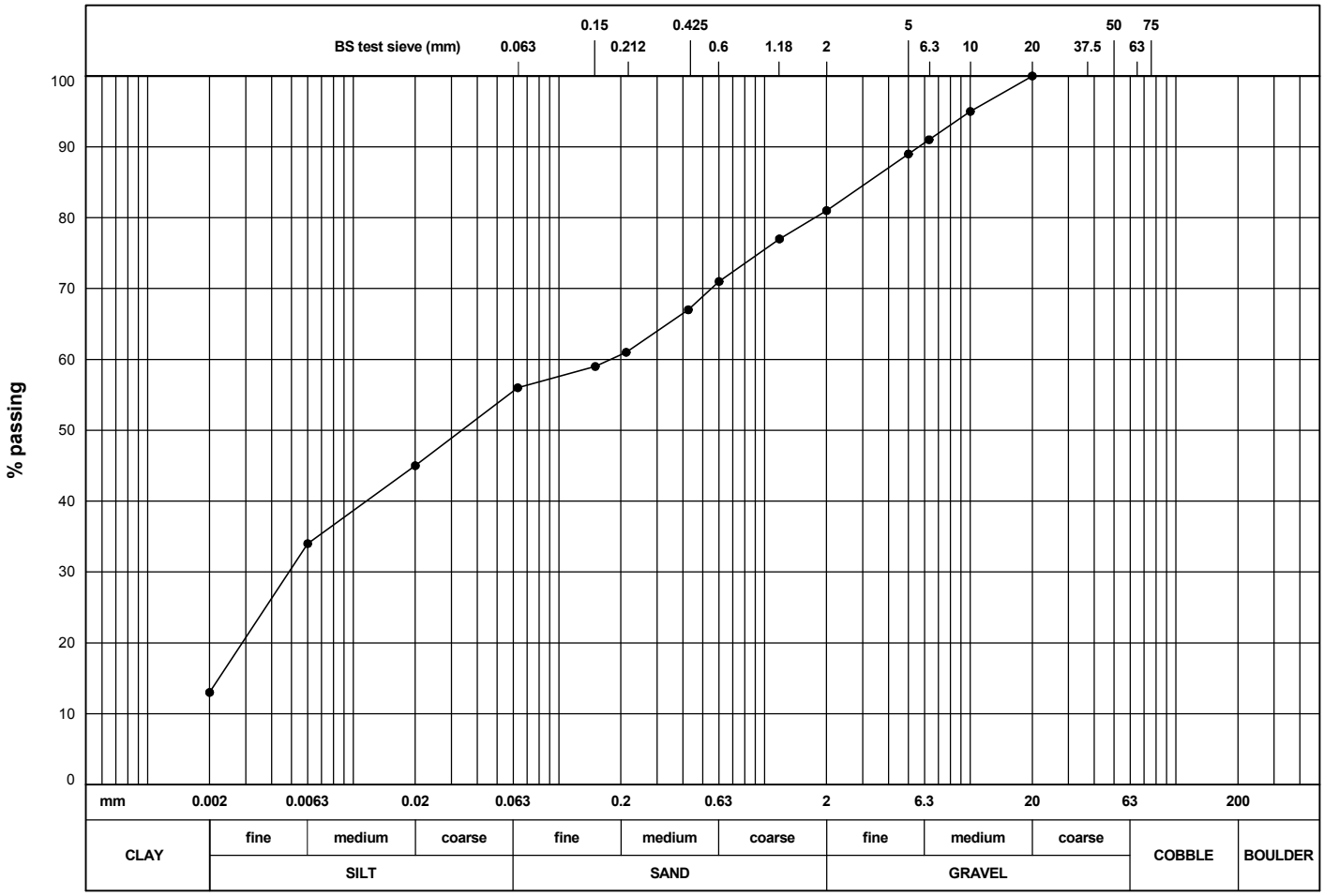
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH502
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	11X
		SAMPLE DEPTH (m)	1.80
DESCRIPTION	Off white slightly sandy slightly gravelly CHALK	SPECIMEN DEPTH (m)	2.00



soil type	% fraction
CLAY	13
SILT	43
SILT & CLAY	56
SAND	25
GRAVEL	19
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing
150		5	89
75		2	81
63		1.18	77
50		0.6	71
37.5		0.425	67
20	100	0.212	61
10	95	0.15	59
6.3	91	0.063	56

particle size (μm)	% finer
20	45
6	34
2	13

remarks:
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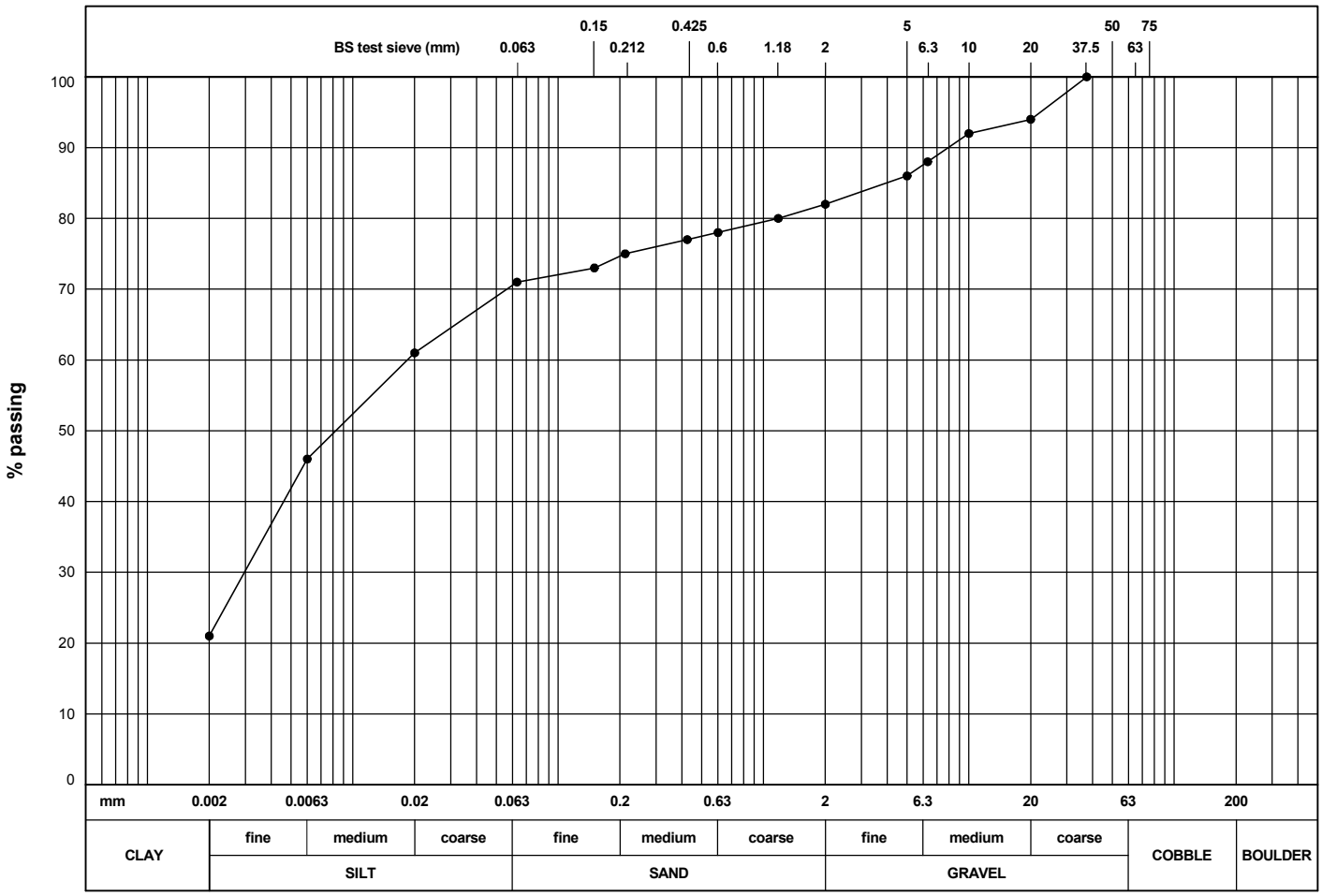
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH502
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	27X
		SAMPLE DEPTH (m)	5.20
DESCRIPTION	Off white slightly sandy slightly gravelly CHALK	SPECIMEN DEPTH (m)	5.60



soil type	% fraction
CLAY	21
SILT	50
SILT & CLAY	71
SAND	11
GRAVEL	18
COBBLE & BOULDER	0
test method(s)	9.2 &9.4

BS test sieve (mm)	% passing
150	
75	
63	
50	
37.5	100
20	94
10	92
6.3	88

BS test sieve (mm)	% passing
5	86
2	82
1.18	80
0.6	78
0.425	77
0.212	75
0.15	73
0.063	71

particle size (μm)	% finer
20	61
6	46
2	21

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
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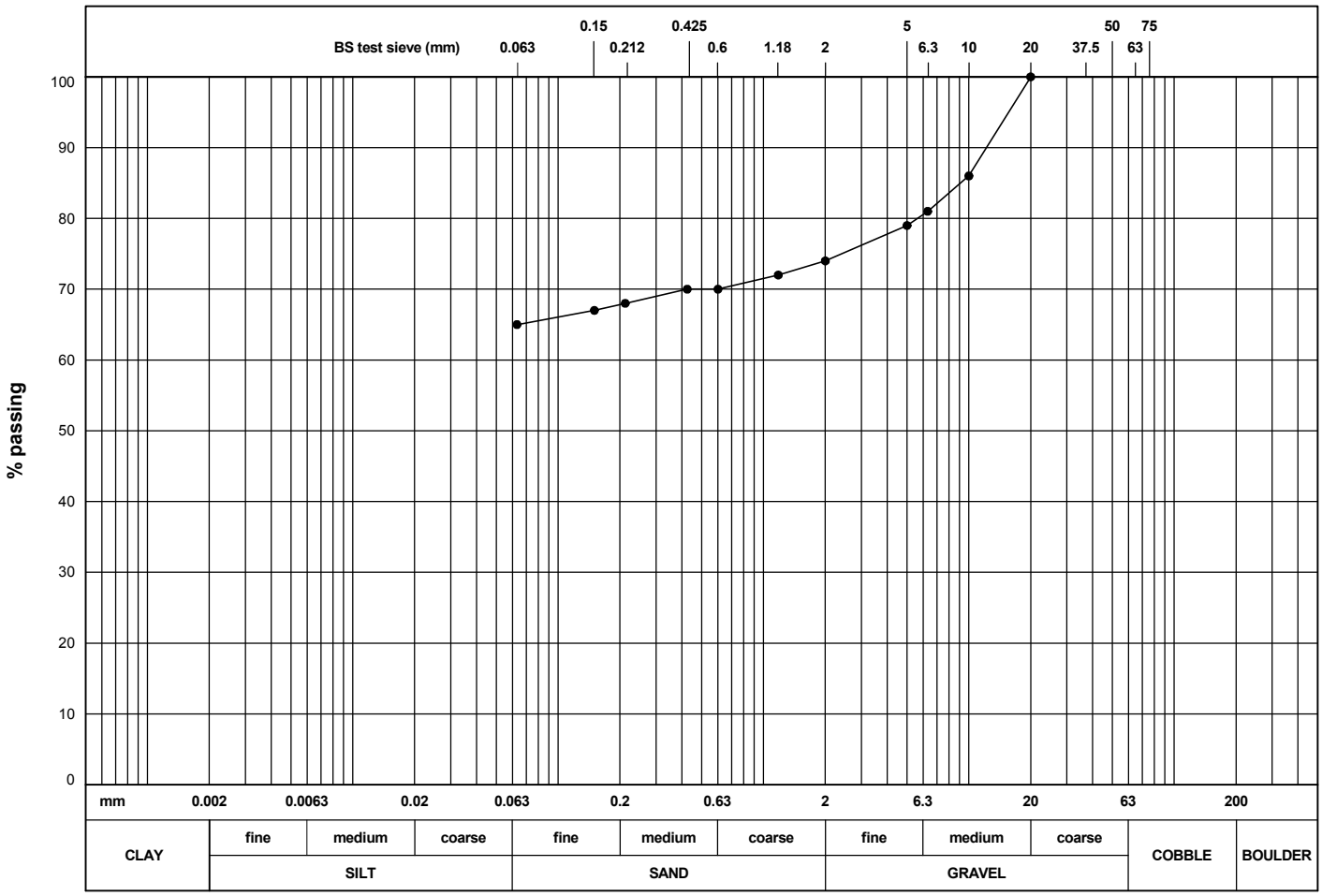
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH502
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	37X
		SAMPLE DEPTH (m)	7.20
DESCRIPTION	Off white slightly sandy slightly gravelly CHALK	SPECIMEN DEPTH (m)	7.40



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	65
SAND	9
GRAVEL	26
COBBLE & BOULDER	0
test method(s)	9.2

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	79	20	
75		2	74	6	
63		1.18	72	2	
50		0.6	70		
37.5		0.425	70		
20	100	0.212	68		
10	86	0.15	67		
6.3	81	0.063	65		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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PARTICLE SIZE DISTRIBUTION

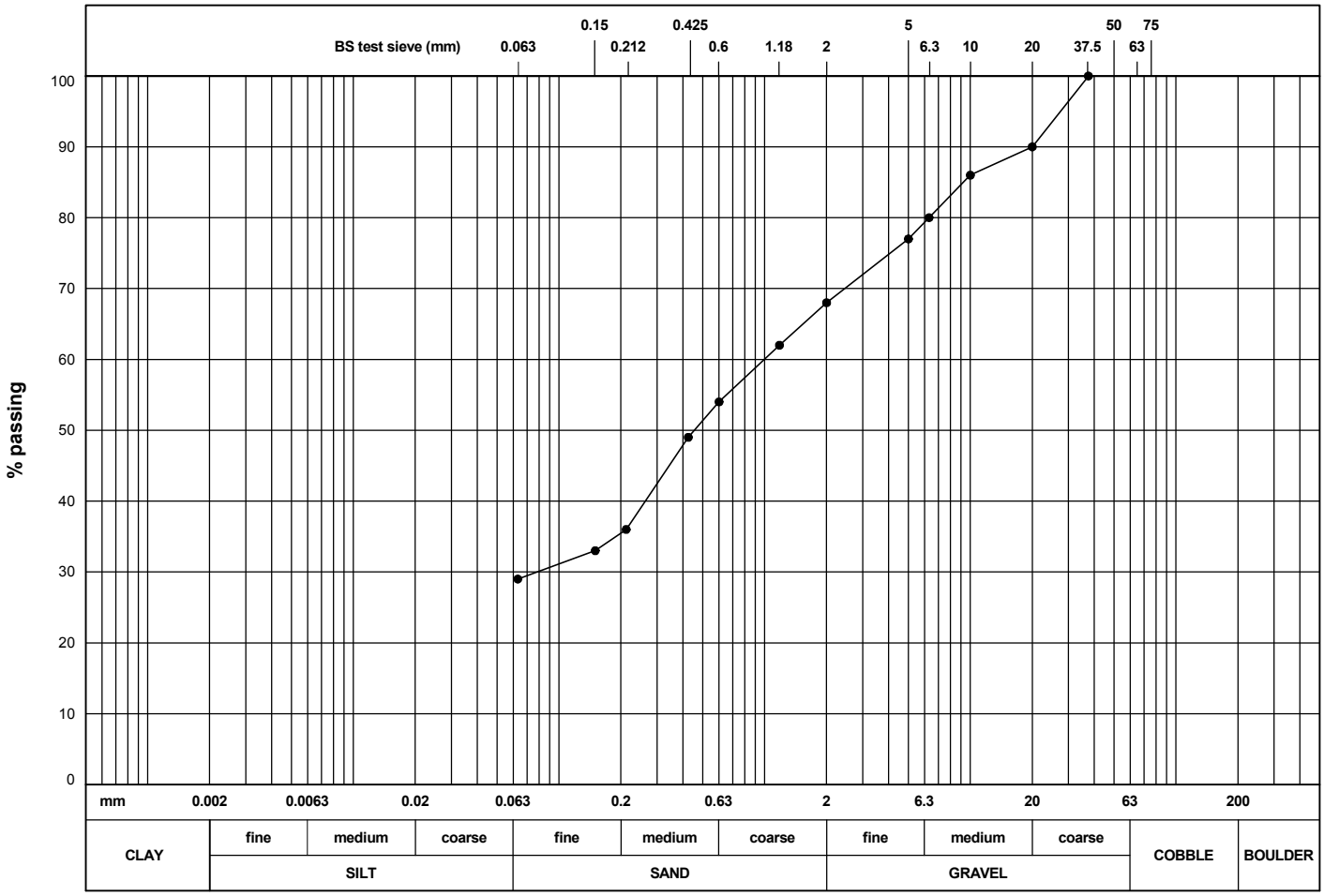
BS.1377 : Part 2 : 1990 : 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown very clayey very gravelly SAND

BH/TP No.	BH502
SAMPLE No./TYPE	41X
SAMPLE DEPTH (m)	8.20
SPECIMEN DEPTH (m)	8.70



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	29
SAND	39
GRAVEL	32
COBBLE & BOULDER	0
test method(s)	9.2#

BS test sieve (mm)	% passing
150	
75	
63	
50	
37.5	100
20	90
10	86
6.3	80

BS test sieve (mm)	% passing
5	77
2	68
1.18	62
0.6	54
0.425	49
0.212	36
0.15	33
0.063	29

particle size (μm)	% finer
20	
6	
2	

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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PARTICLE SIZE DISTRIBUTION

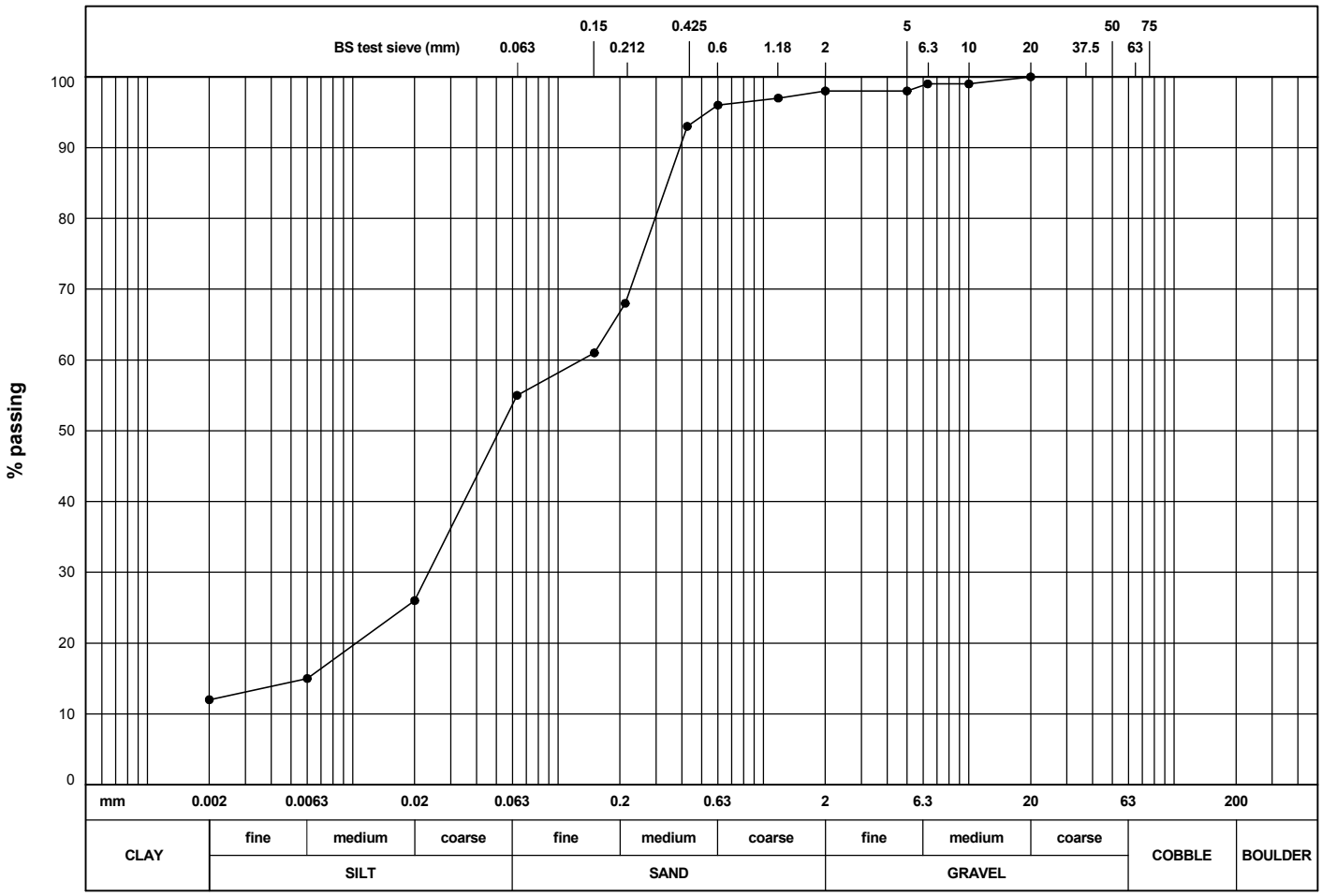
BS.1377 : Part 2 : 1990 : 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown sandy slightly gravelly SILT

BH/TP No.	BH502
SAMPLE No./TYPE	49D
SAMPLE DEPTH (m)	9.50
SPECIMEN DEPTH (m)	9.50



soil type	% fraction
CLAY	12
SILT	43
SILT & CLAY	55
SAND	43
GRAVEL	2
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

BS test sieve (mm)	% passing
150	
75	
63	
50	
37.5	
20	100
10	99
6.3	99

BS test sieve (mm)	% passing
5	98
2	98
1.18	97
0.6	96
0.425	93
0.212	68
0.15	61
0.063	55

particle size (μm)	% finer
20	26
6	15
2	12

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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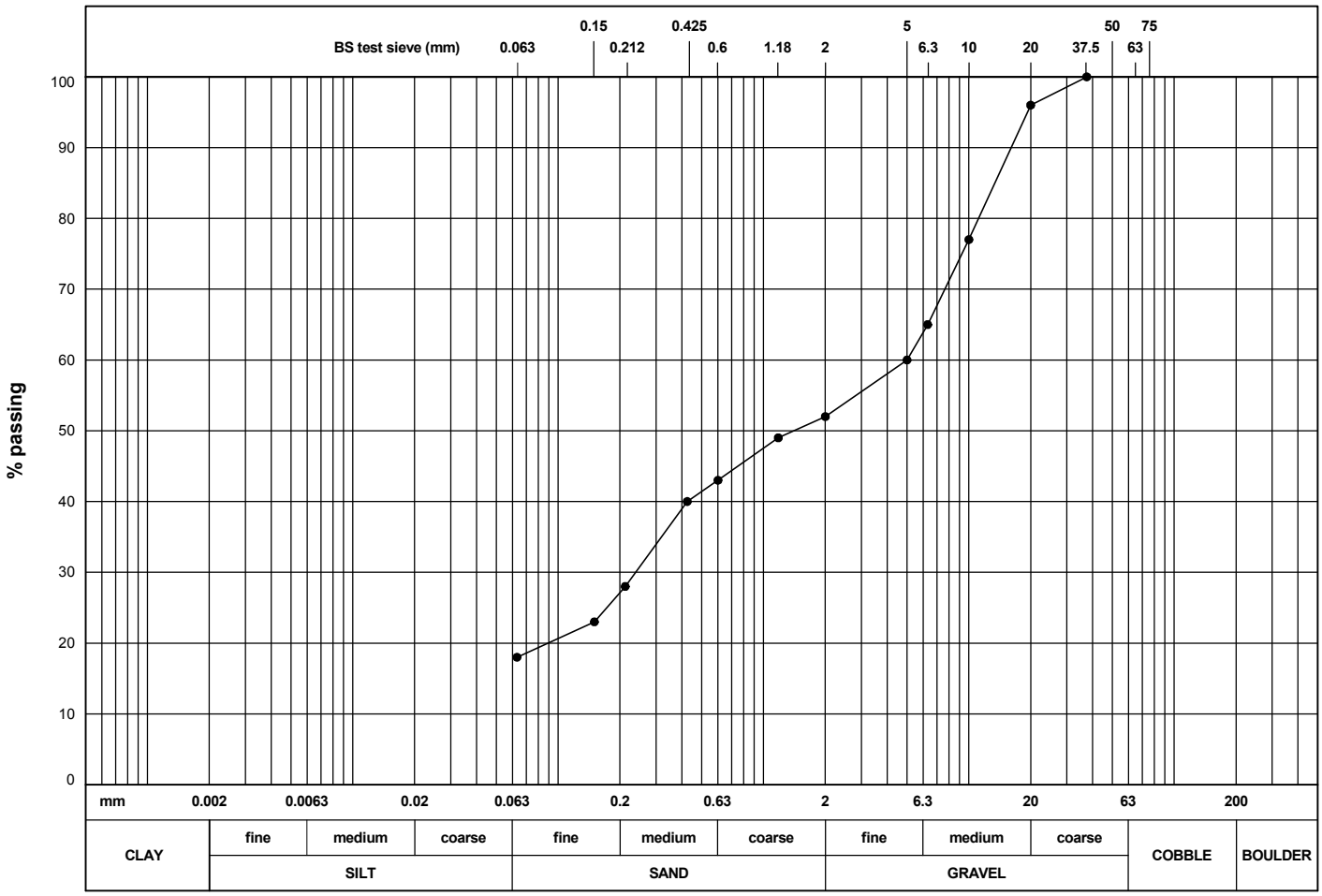
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Reddish brown slightly clayey very sandy GRAVEL

BH/TP No.	BH502
SAMPLE No./TYPE	53D
SAMPLE DEPTH (m)	10.80
SPECIMEN DEPTH (m)	10.80



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	18
SAND	34
GRAVEL	48
COBBLE & BOULDER	0
test method(s)	9.2#

BS test sieve (mm)	% passing
150	
75	
63	
50	
37.5	100
20	96
10	77
6.3	65

BS test sieve (mm)	% passing
5	60
2	52
1.18	49
0.6	43
0.425	40
0.212	28
0.15	23
0.063	18

particle size (μm)	% finer
20	
6	
2	

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
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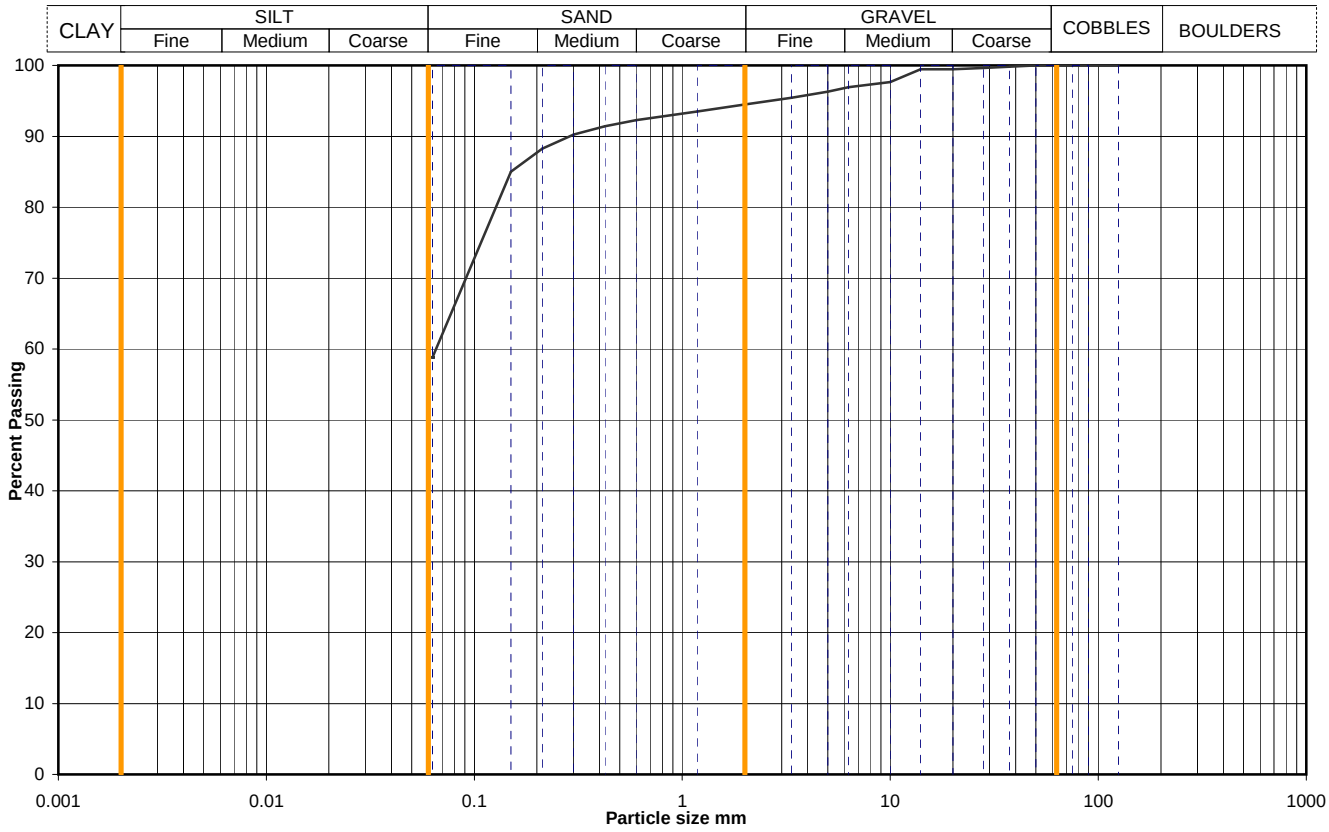
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH703		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	0.50		
			Samp No	3	Type	B
			ID	MASTER3402		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	99		
10	98		
6.3	97		
5.0	96		
3.35	95		
2.00	95		
1.18	94		
0.600	92		
0.425	91		
0.300	90	Dry mass of sample, kg	
0.212	88		
0.150	85	190.2	
0.063	59		

Soil description	Brown slightly sandy slightly gravelly CLAY with occasional rootlets		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	5	5
	Sand	36	36
	Silt	silt+clay =	
	Clay	59	59

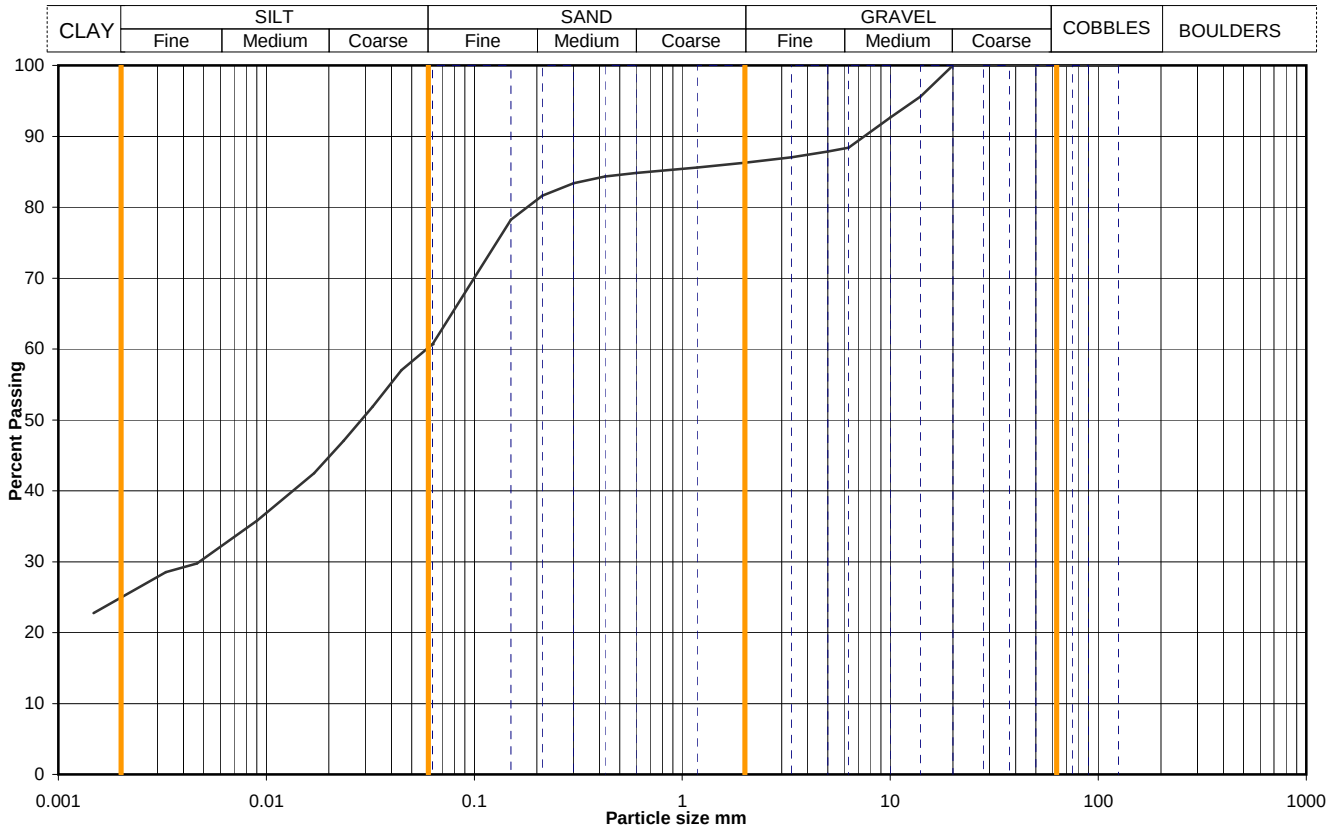
Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:37	**Figure** **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH703		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.20		
			Samp No	8	Type	X
			ID	MASTER3403		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	61
90	100	0.0446	57
75	100	0.0324	52
63	100	0.0235	47
50	100	0.0170	42
37.5	100	0.0090	36
28	100	0.0046	30
20	100	0.0033	29
14	96	0.0015	23
10	93		
6.3	88		
5.0	88		
3.35	87		
2.00	86		
1.18	86	Particle density, Mg/m3	
0.600	85		
0.425	84	2.65 assumed	
0.300	83	Dry mass of sample, kg	
0.212	82		
0.150	78	6.6	
0.063	61		

Soil description	Brown slightly sandy slightly gravelly CLAY.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	14	14
	Sand	26	26
	Silt	35	35
	Clay	25	25

Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:37	**Figure** **PSD**

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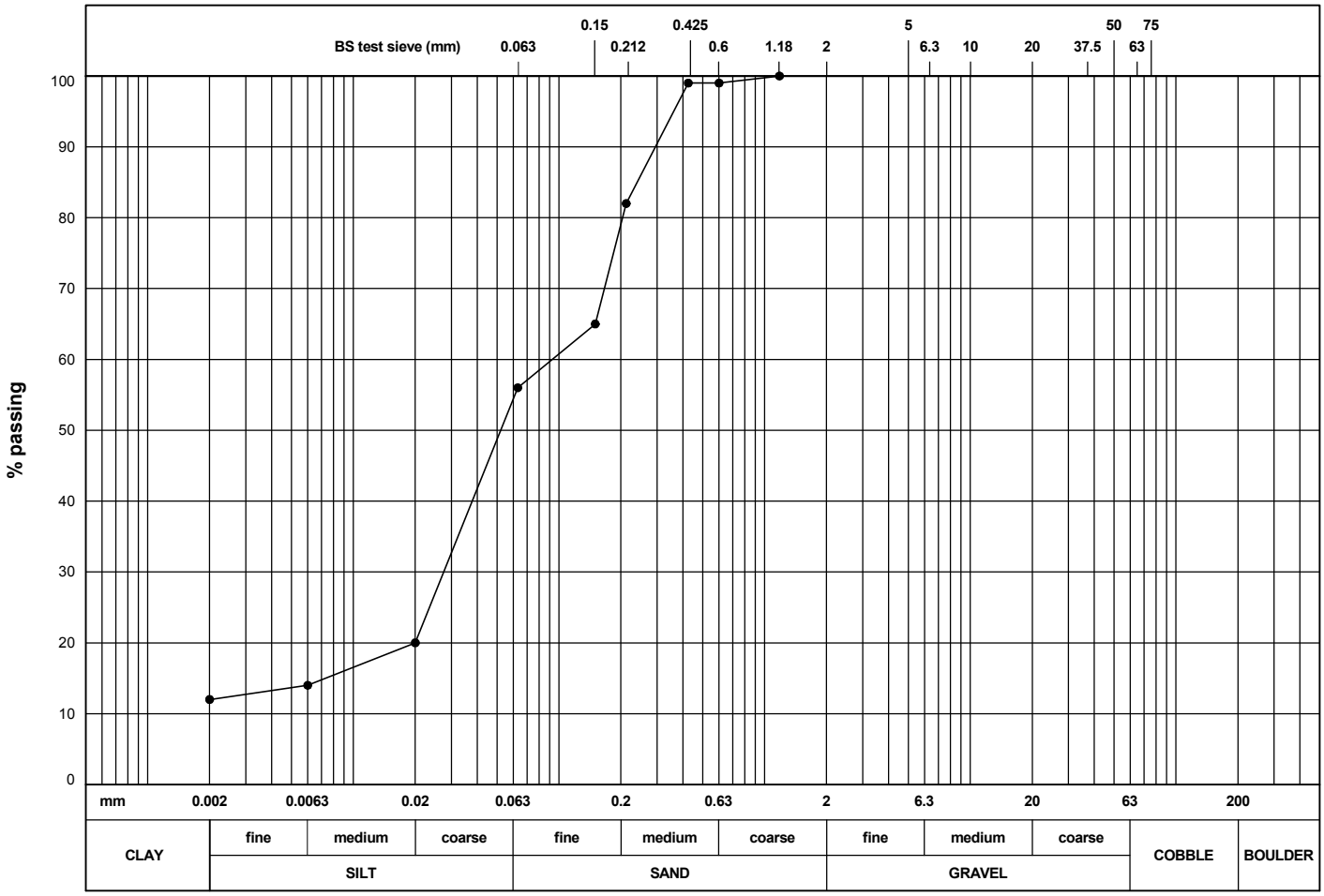
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH703
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	22X
		SAMPLE DEPTH (m)	4.20
DESCRIPTION	Orangish brown sandy SILT	SPECIMEN DEPTH (m)	4.50



soil type	% fraction
CLAY	12
SILT	44
SILT & CLAY	56
SAND	44
GRAVEL	0
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing
150		5	
75		2	
63		1.18	100
50		0.6	99
37.5		0.425	99
20		0.212	82
10		0.15	65
6.3		0.063	56

particle size (μm)	% finer
20	20
6	14
2	12

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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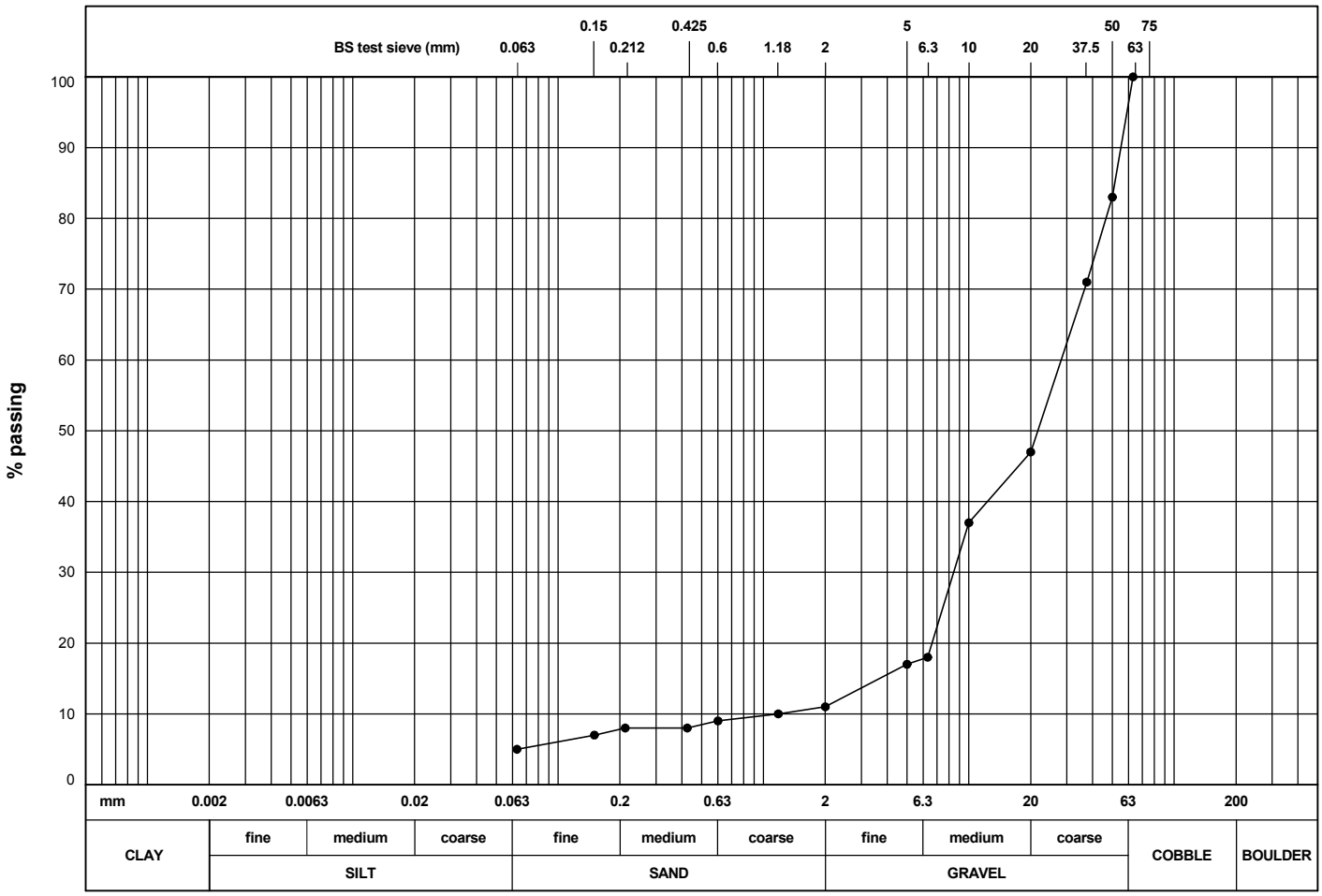
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Light brown silty sandy GRAVEL

BH/TP No.	BH703
SAMPLE No./TYPE	30X
SAMPLE DEPTH (m)	6.20
SPECIMEN DEPTH (m)	6.20



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	5
SAND	6
GRAVEL	85
COBBLE & BOULDER	4
test method(s)	9.2#

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	17	20	
75		2	11	6	
63	100	1.18	10	2	
50	83	0.6	9		
37.5	71	0.425	8		
20	47	0.212	8		
10	37	0.15	7		
6.3	18	0.063	5		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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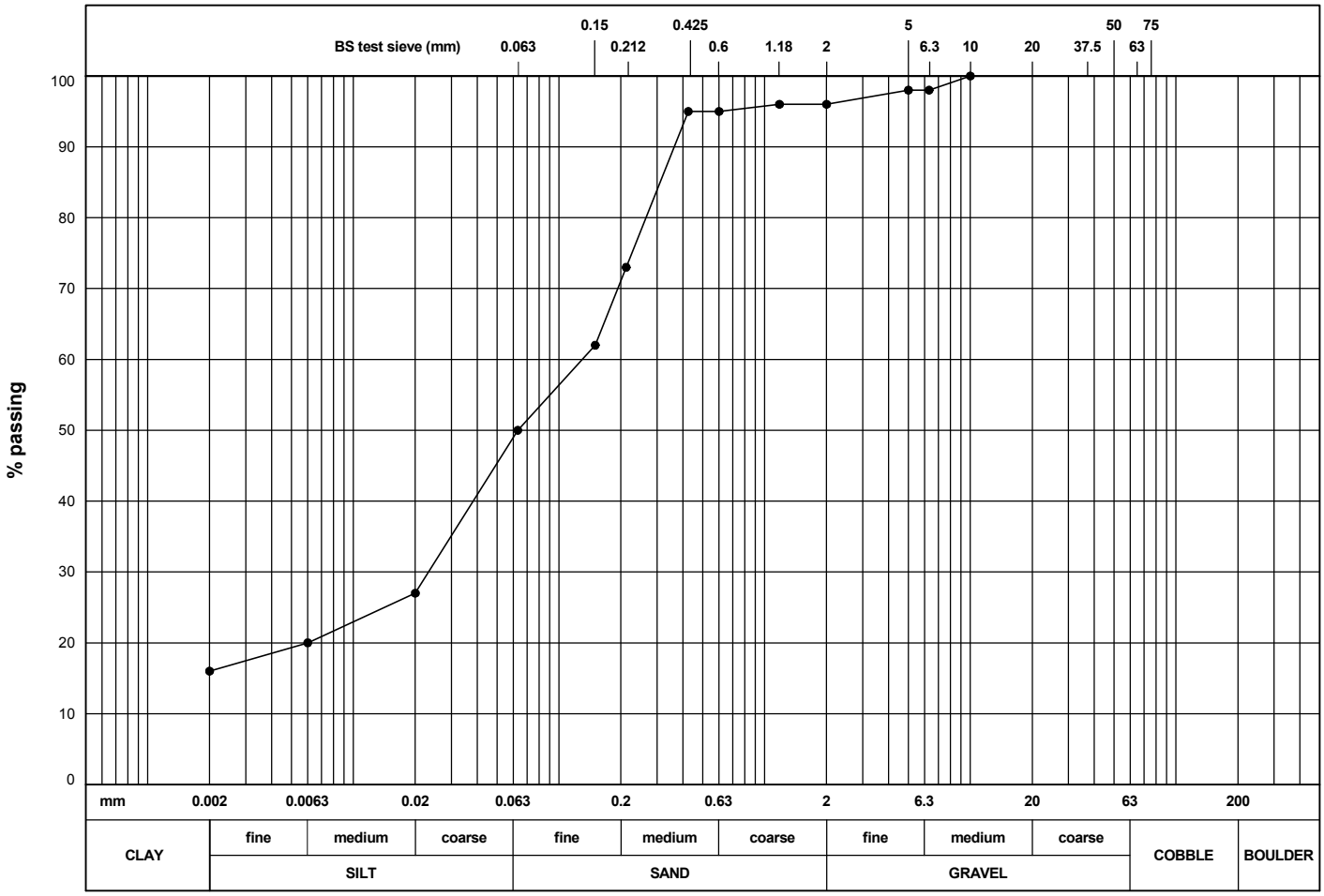
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH704
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	8X
		SAMPLE DEPTH (m)	1.20
DESCRIPTION	Brown sandy slightly gravelly clayey SILT	SPECIMEN DEPTH (m)	1.80



soil type	% fraction
CLAY	16
SILT	34
SILT & CLAY	50
SAND	46
GRAVEL	4
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	98	20	27
75		2	96	6	20
63		1.18	96	2	16
50		0.6	95		
37.5		0.425	95		
20		0.212	73		
10	100	0.15	62		
6.3	98	0.063	50		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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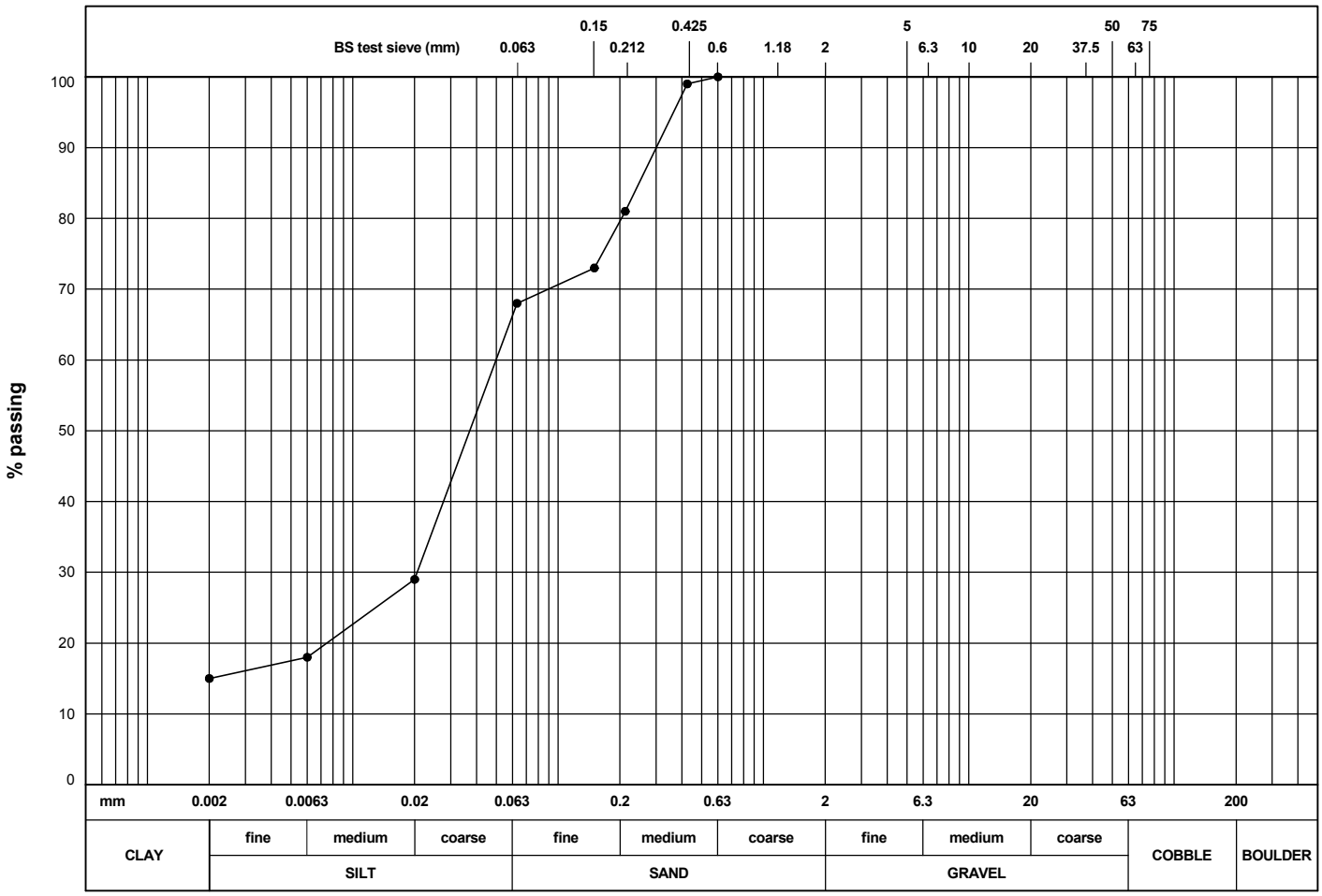
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH704
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	17X
		SAMPLE DEPTH (m)	3.20
DESCRIPTION	Light brown sandy clayey SILT	SPECIMEN DEPTH (m)	3.50



soil type	% fraction
CLAY	15
SILT	53
SILT & CLAY	68
SAND	32
GRAVEL	0
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

BS test sieve (mm)	% passing
150	
75	
63	
50	
37.5	
20	
10	
6.3	

BS test sieve (mm)	% passing
5	
2	
1.18	
0.6	100
0.425	99
0.212	81
0.15	73
0.063	68

particle size (μm)	% finer
20	29
6	18
2	15

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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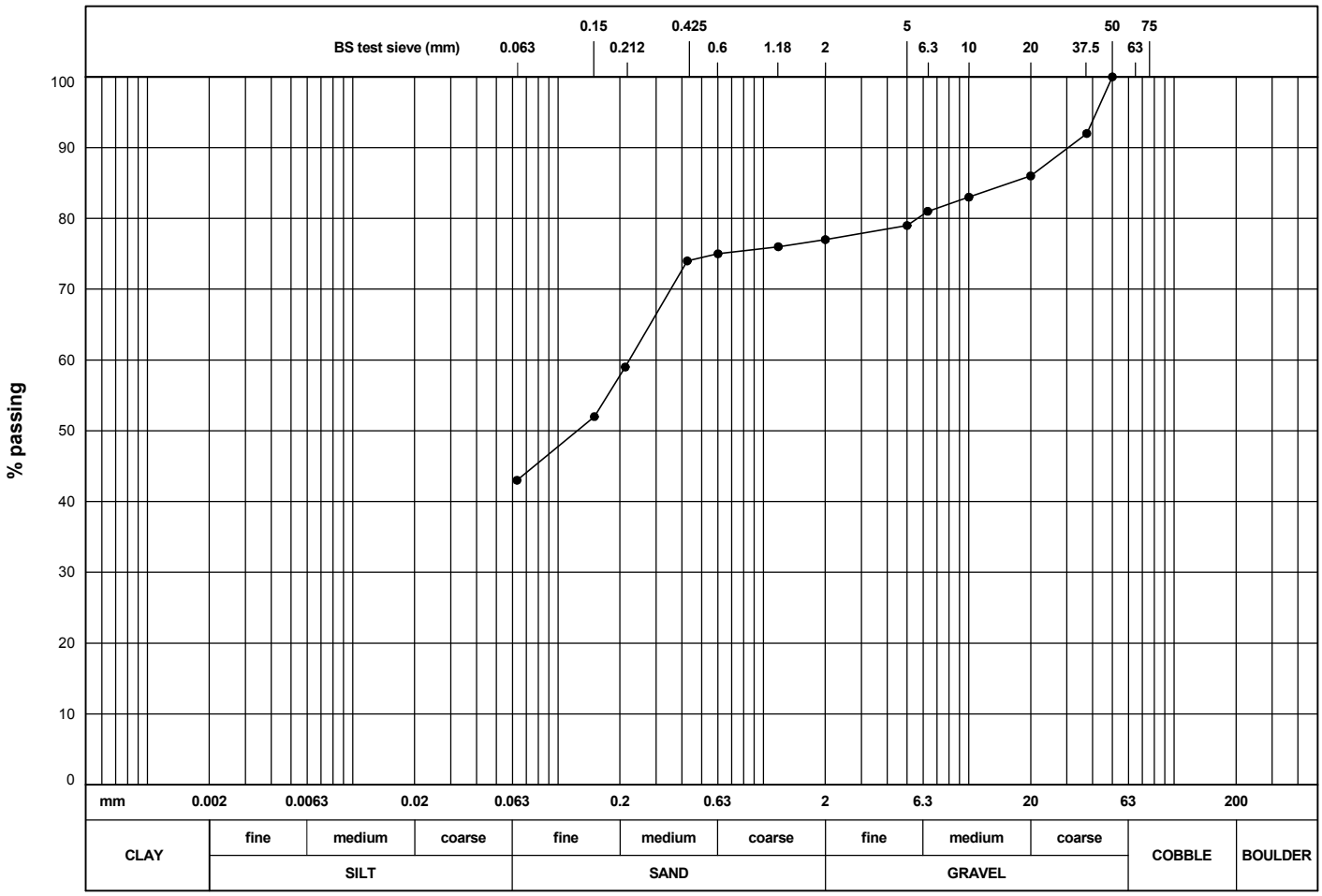
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Yellowish brown slightly sandy slightly gravelly CLAY

BH/TP No.	BH705
SAMPLE No./TYPE	3B
SAMPLE DEPTH (m)	0.50
SPECIMEN DEPTH (m)	0.50



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	43
SAND	34
GRAVEL	23
COBBLE & BOULDER	0
test method(s)	9.2

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing
150		5	79
75		2	77
63		1.18	76
50	100	0.6	75
37.5	92	0.425	74
20	86	0.212	59
10	83	0.15	52
6.3	81	0.063	43

particle size (μm)	% finer
20	
6	
2	

remarks:
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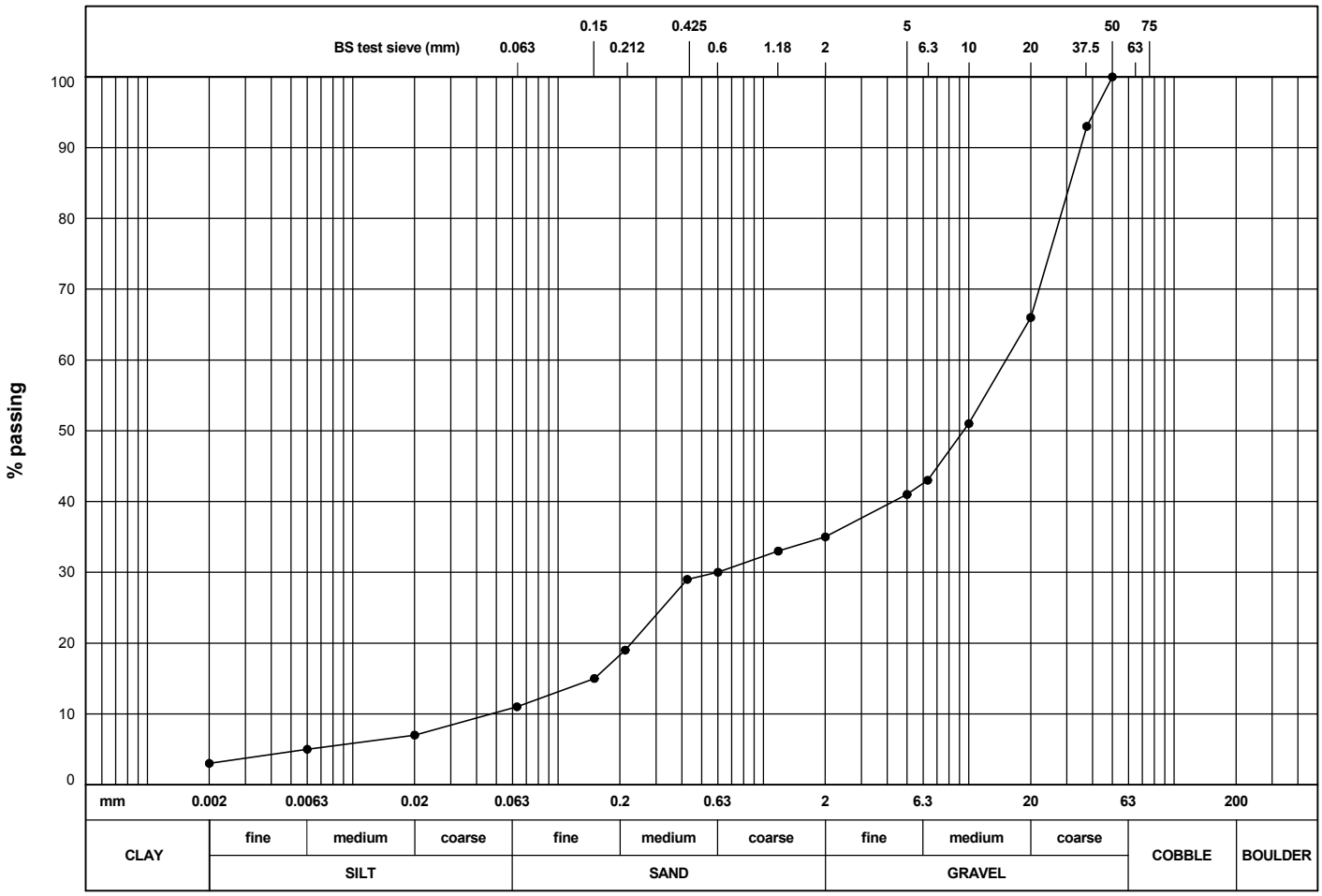
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Light brown silty very sandy GRAVEL

BH/TP No.	BH705
SAMPLE No./TYPE	8X
SAMPLE DEPTH (m)	1.20
SPECIMEN DEPTH (m)	1.50



soil type	% fraction
CLAY	3
SILT	8
SILT & CLAY	11
SAND	24
GRAVEL	65
COBBLE & BOULDER	0
test method(s)	9.2# & 9.4

BS test sieve (mm)	% passing
150	
75	
63	
50	100
37.5	93
20	66
10	51
6.3	43

BS test sieve (mm)	% passing
5	41
2	35
1.18	33
0.6	30
0.425	29
0.212	19
0.15	15
0.063	11

particle size (μm)	% finer
20	7
6	5
2	3

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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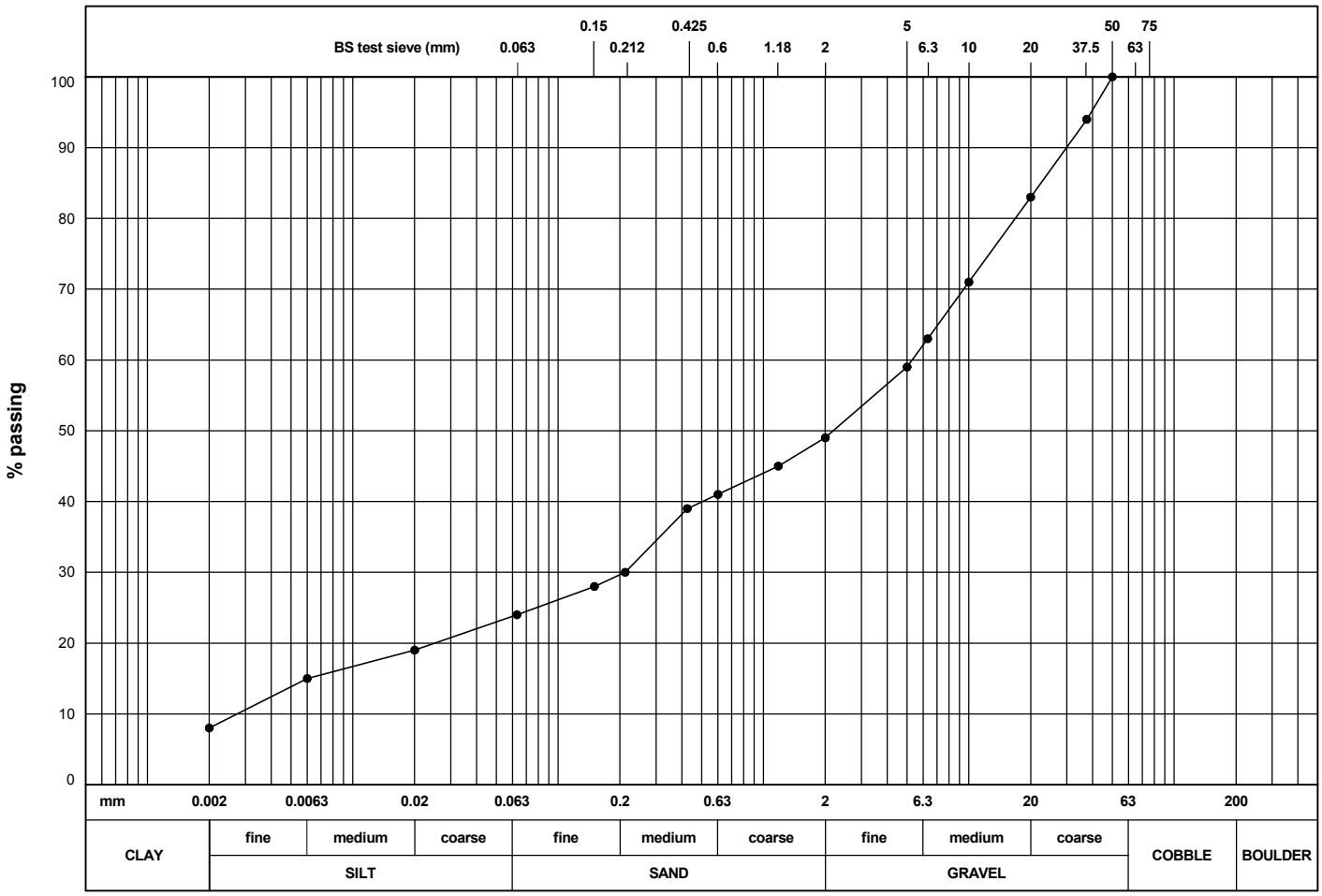
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Light brown silty very sandy GRAVEL

BH/TP No.	BH705
SAMPLE No./TYPE	12X
SAMPLE DEPTH (m)	2.20
SPECIMEN DEPTH (m)	2.50



soil type	% fraction
CLAY	8
SILT	16
SILT & CLAY	24
SAND	25
GRAVEL	51
COBBLE & BOULDER	0
test method(s)	9.2# & 9.4

BS test sieve (mm)	% passing
150	
75	
63	
50	100
37.5	94
20	83
10	71
6.3	63

BS test sieve (mm)	% passing
5	59
2	49
1.18	45
0.6	41
0.425	39
0.212	30
0.15	28
0.063	24

particle size (μm)	% finer
20	19
6	15
2	8

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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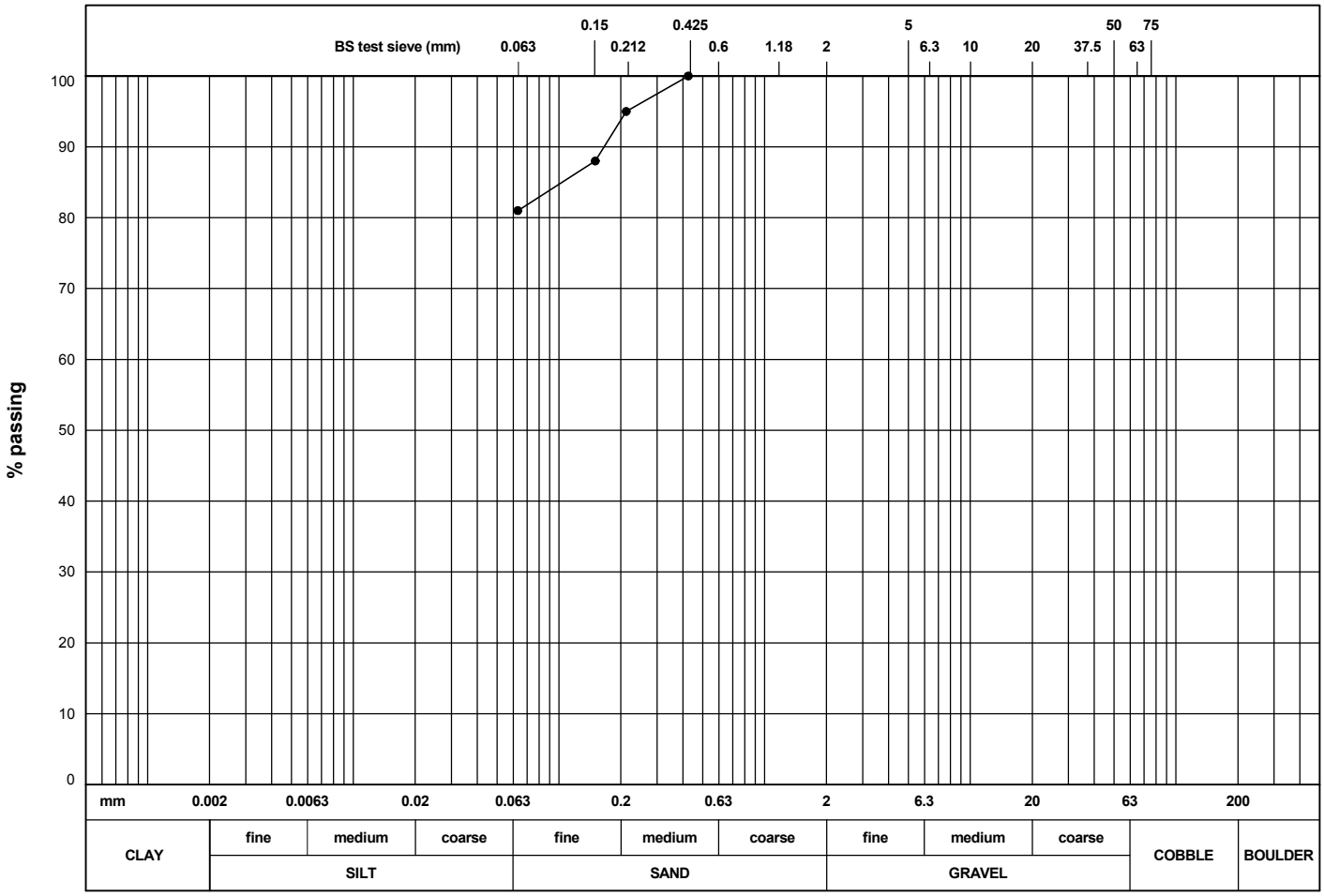
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown slightly sandy silty CLAY

BH/TP No.	BH706
SAMPLE No./TYPE	8X
SAMPLE DEPTH (m)	1.20
SPECIMEN DEPTH (m)	1.50



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	81
SAND	19
GRAVEL	0
COBBLE & BOULDER	0
test method(s)	9.2

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5		20	
75		2		6	
63		1.18		2	
50		0.6			
37.5		0.425	100		
20		0.212	95		
10		0.15	88		
6.3		0.063	81		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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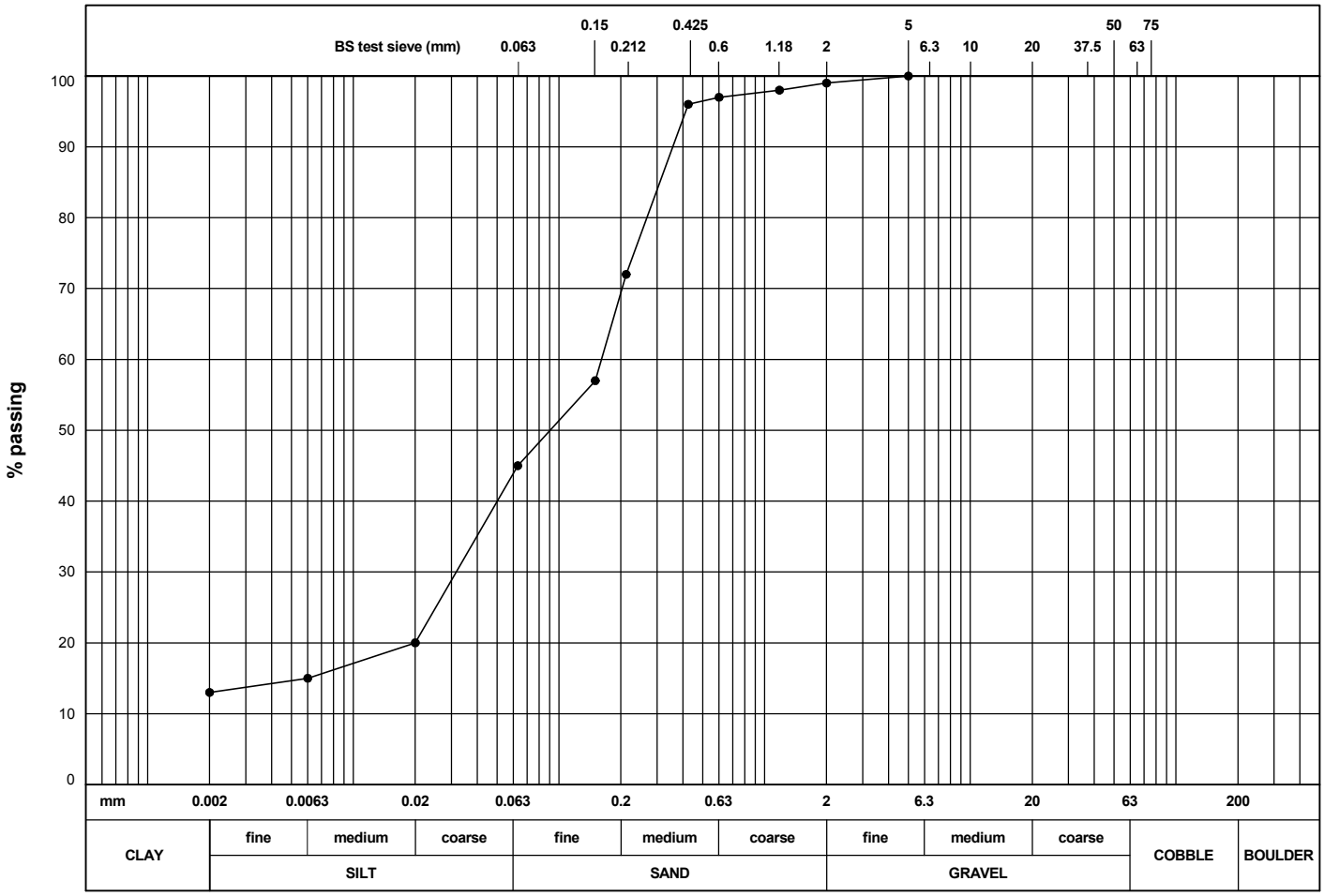
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH706
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	14X
		SAMPLE DEPTH (m)	2.20
DESCRIPTION	Yellowish brown sandy clayey SILT	SPECIMEN DEPTH (m)	2.50



soil type	% fraction
CLAY	13
SILT	32
SILT & CLAY	45
SAND	54
GRAVEL	1
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	100	20	20
75		2	99	6	15
63		1.18	98	2	13
50		0.6	97		
37.5		0.425	96		
20		0.212	72		
10		0.15	57		
6.3		0.063	45		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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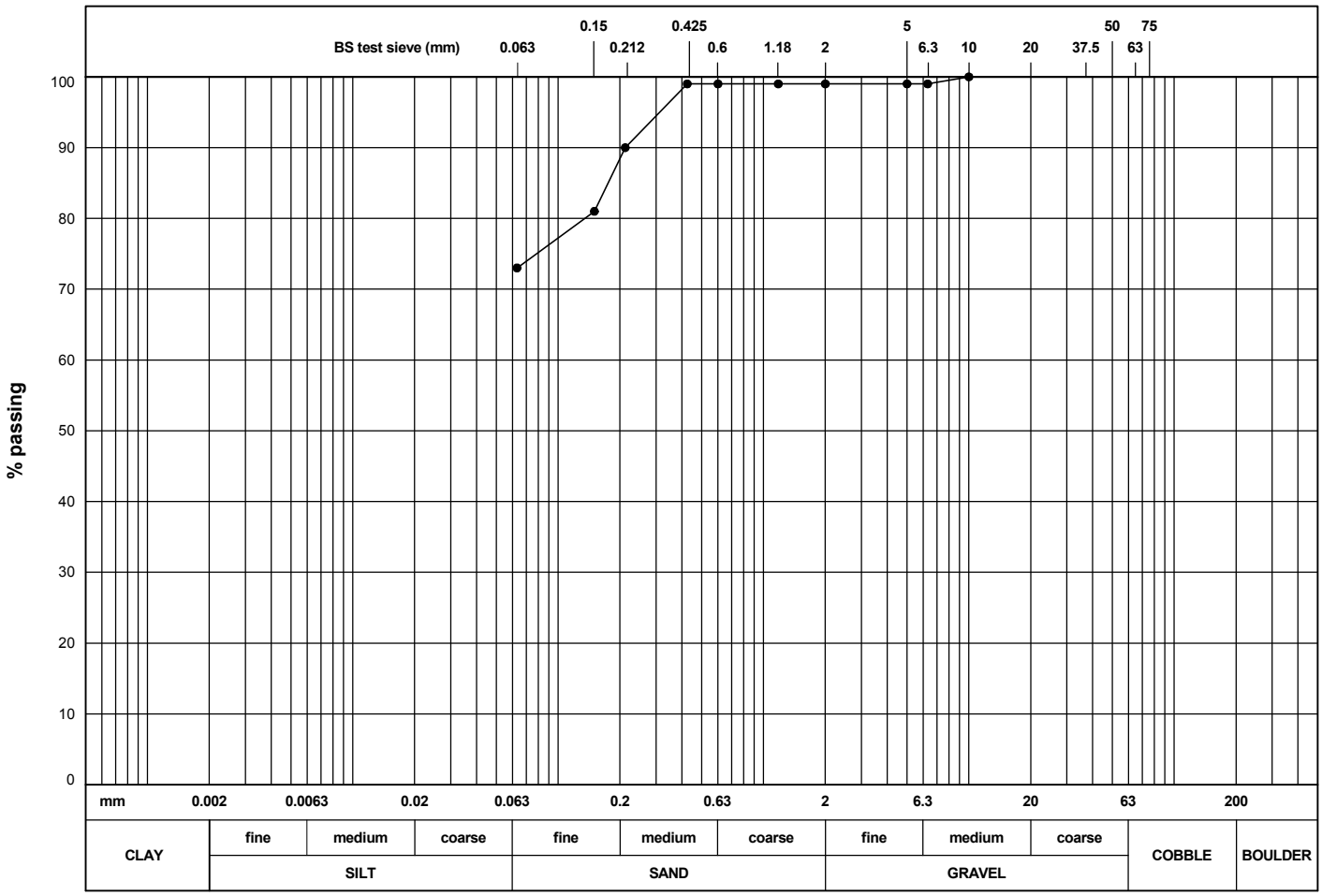
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH706
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	18X
		SAMPLE DEPTH (m)	3.20
DESCRIPTION	Orangish brown slightly sandy CLAY	SPECIMEN DEPTH (m)	4.00



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	73
SAND	26
GRAVEL	1
COBBLE & BOULDER	0
test method(s)	9.2

BS test sieve (mm)	% passing
150	
75	
63	
50	
37.5	
20	
10	100
6.3	99

BS test sieve (mm)	% passing
5	99
2	99
1.18	99
0.6	99
0.425	99
0.212	90
0.15	81
0.063	73

particle size (μm)	% finer
20	
6	
2	

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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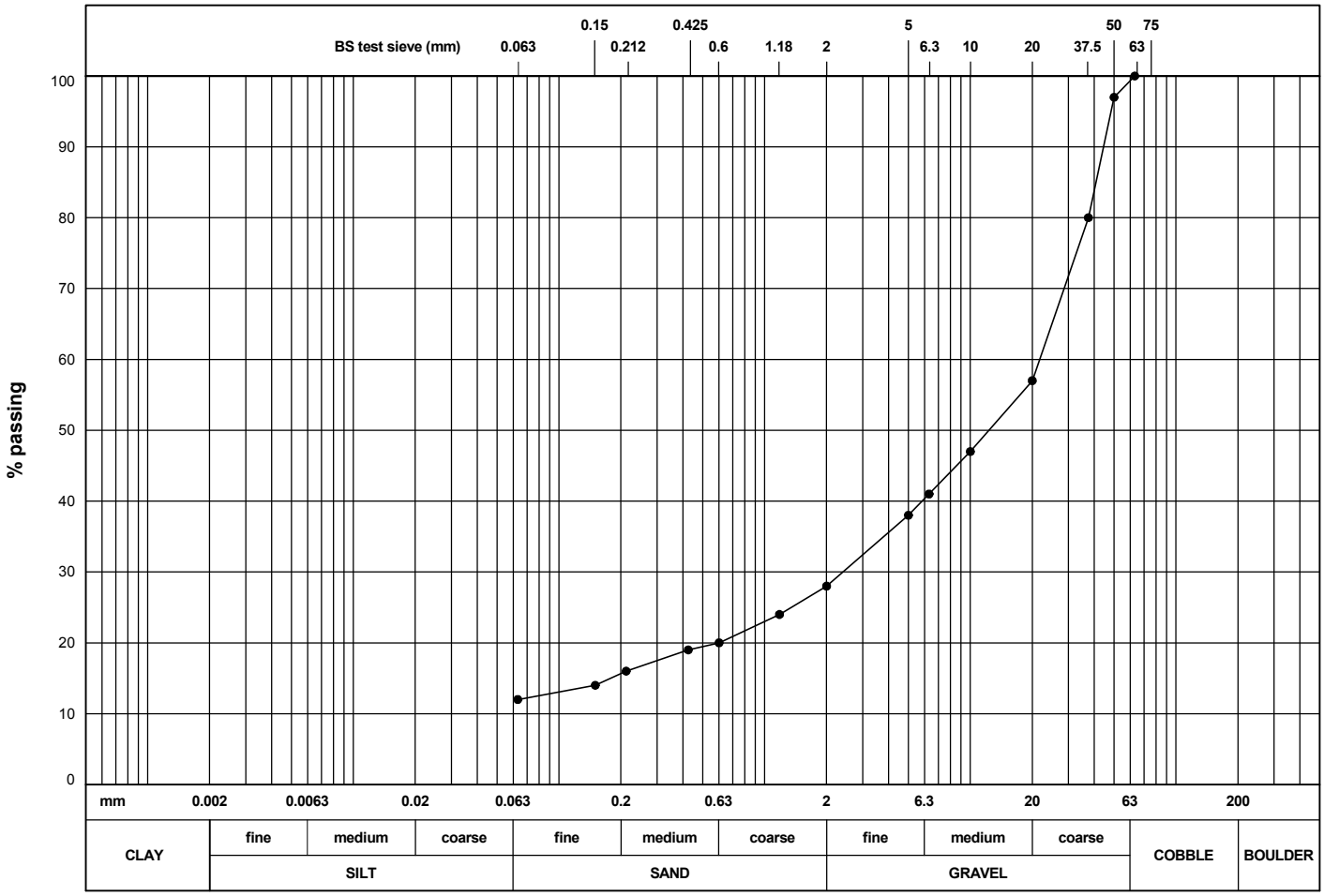
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Orangish brown clayey sandy GRAVEL

BH/TP No.	BH706
SAMPLE No./TYPE	26X
SAMPLE DEPTH (m)	5.20
SPECIMEN DEPTH (m)	5.50



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	12
SAND	16
GRAVEL	71
COBBLE & BOULDER	1
test method(s)	9.2#

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	38	20	
75		2	28	6	
63	100	1.18	24	2	
50	97	0.6	20		
37.5	80	0.425	19		
20	57	0.212	16		
10	47	0.15	14		
6.3	41	0.063	12		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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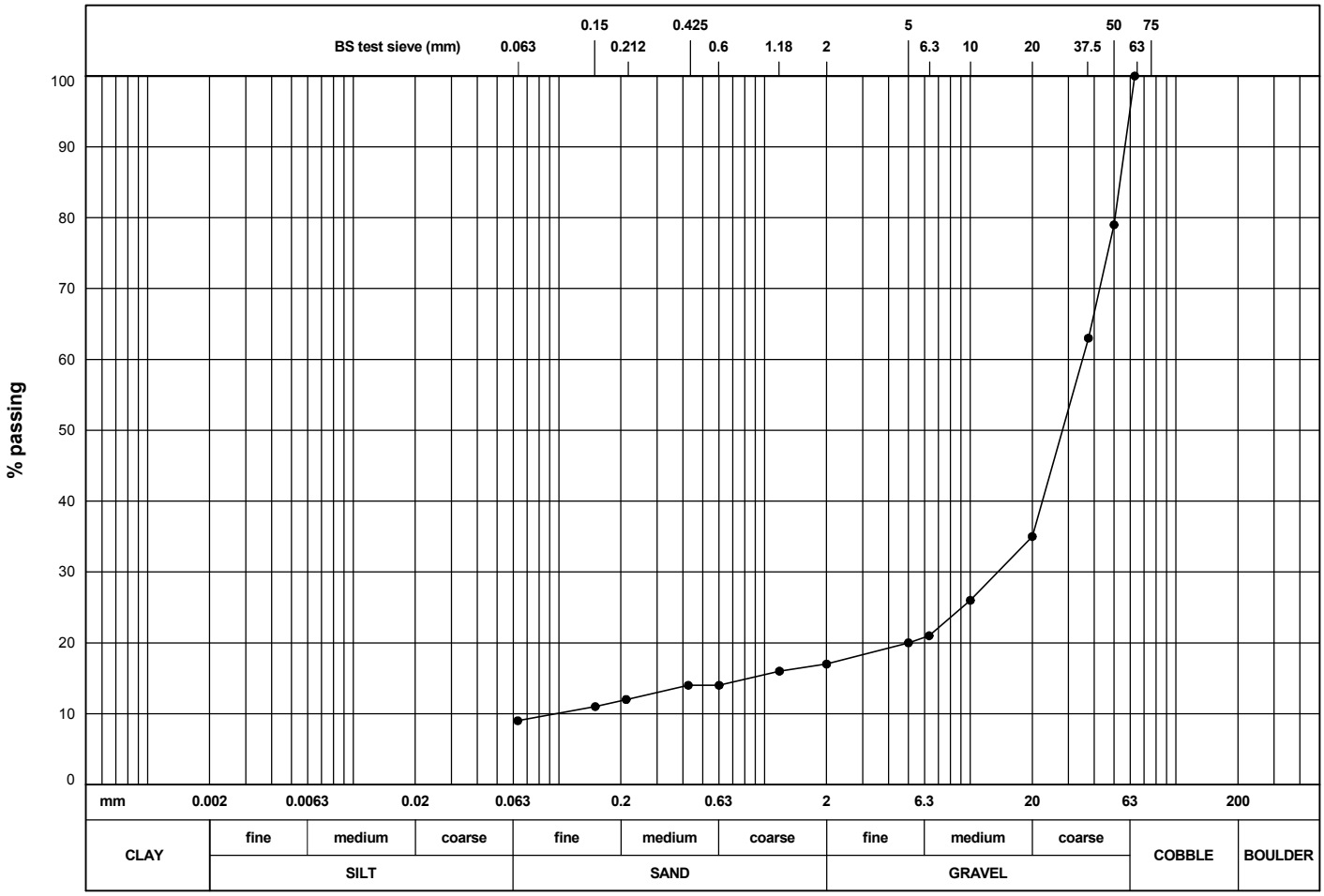
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Yellowish brown clayey sandy GRAVEL

BH/TP No.	BH706
SAMPLE No./TYPE	32X
SAMPLE DEPTH (m)	6.20
SPECIMEN DEPTH (m)	6.80



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	9
SAND	8
GRAVEL	79
COBBLE & BOULDER	4
test method(s)	9.2#

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	20	20	
75		2	17	6	
63	100	1.18	16	2	
50	79	0.6	14		
37.5	63	0.425	14		
20	35	0.212	12		
10	26	0.15	11		
6.3	21	0.063	9		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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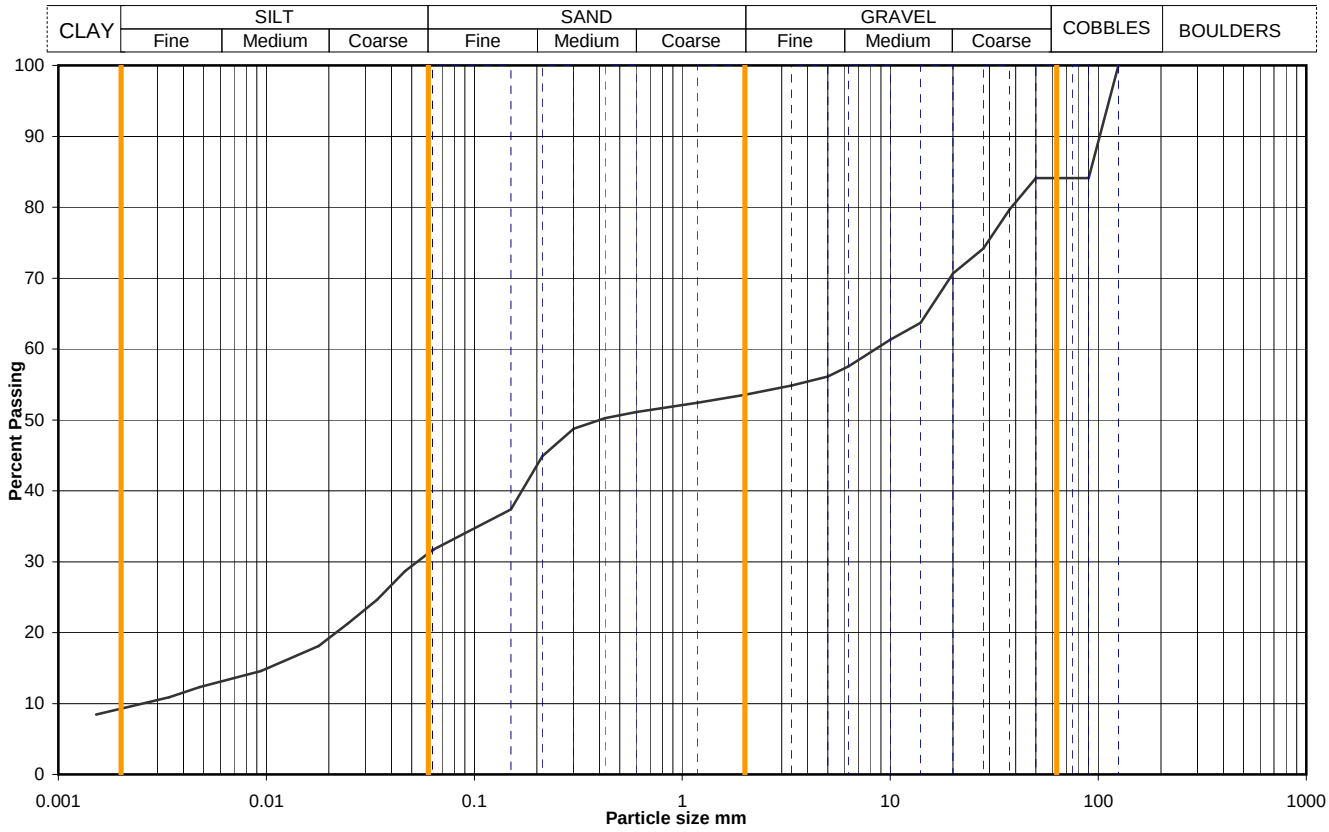
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH707		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	2.20		
			Samp No	14	Type	X
			ID	MASTER3185		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	32
90	84	0.0465	29
75	84	0.0339	25
63	84	0.0246	21
50	84	0.0178	18
37.5	80	0.0094	15
28	74	0.0048	12
20	71	0.0034	11
14	64	0.0015	8
10	61		
6.3	58		
5.0	56		
3.35	55		
2.00	54		
1.18	52	Particle density, Mg/m3	
0.600	51		
0.425	50	2.65 assumed	
0.300	49	Dry mass of sample, kg	
0.212	45		
0.150	37	7.4	
0.063	32		

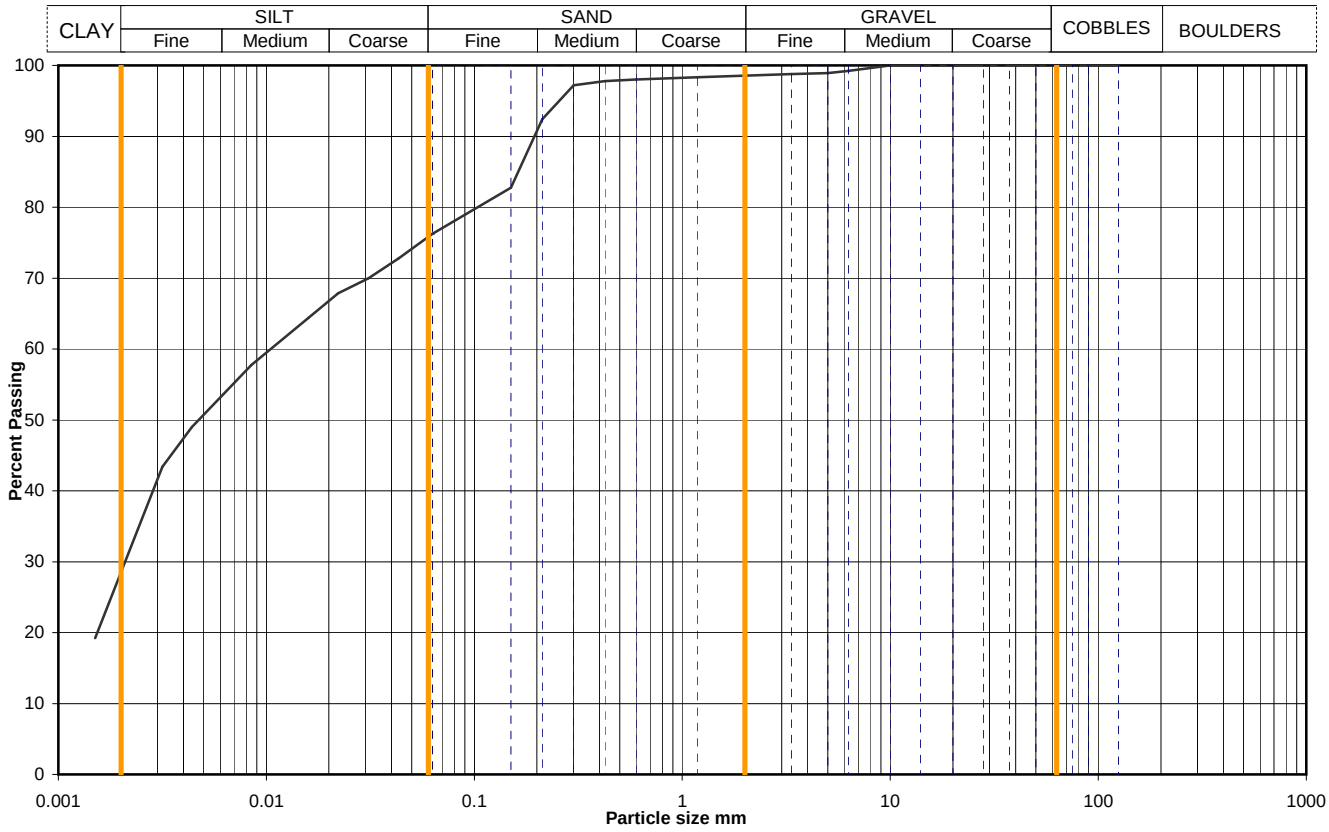
Soil description	Grey slightly sandy slightly gravelly silty CLAY with chalk fragments.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	16	0
	Gravel	30	36
	Sand	22	26
	Silt	22	26
	Clay	10	12

Uniformity Coefficient	D_{60} / D_{10}	3350

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	BH707		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	5.20		
			Samp No	32	Type	X
			ID	MASTER3190		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	76
90	100	0.0433	73
75	100	0.0310	70
63	100	0.0222	68
50	100	0.0159	64
37.5	100	0.0085	58
28	100	0.0044	49
20	100	0.0032	43
14	100	0.0015	19
10	100		
6.3	99		
5.0	99		
3.35	99		
2.00	99		
1.18	98	Particle density, Mg/m3	
0.600	98		
0.425	98	2.65 assumed	
0.300	97	Dry mass of sample, kg	
0.212	92		
0.150	83	10.6	
0.063	76		

Soil description	Light brown slightly sandy silty CLAY.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	1	1
	Sand	23	23
	Silt	47	47
	Clay	29	29

Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:37	**Figure** **PSD**

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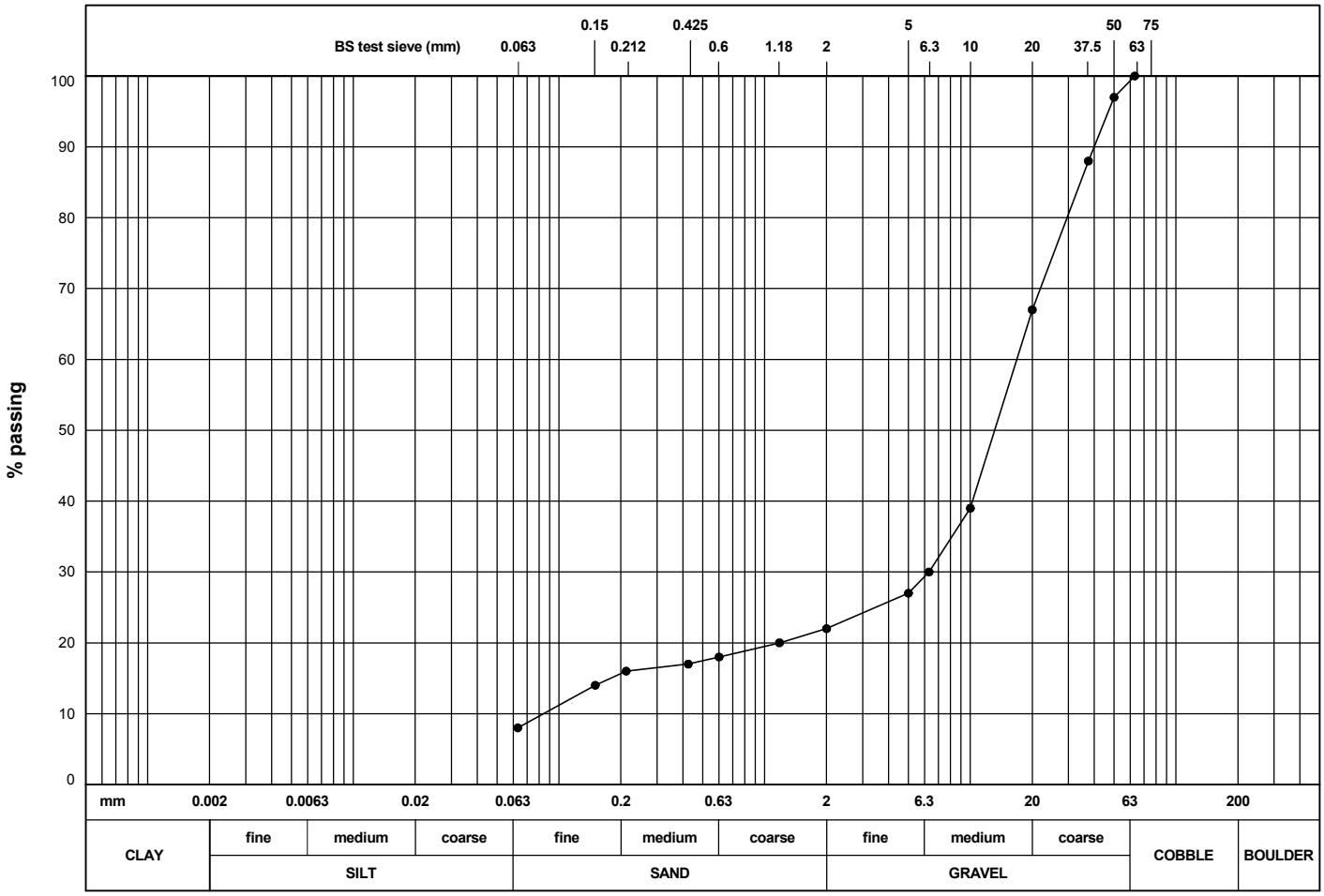
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown silty sandy GRAVEL

BH/TP No.	BH707
SAMPLE No./TYPE	47X
SAMPLE DEPTH (m)	9.20
SPECIMEN DEPTH (m)	9.20



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	8
SAND	14
GRAVEL	77
COBBLE & BOULDER	1
test method(s)	9.2#

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	27	20	
75		2	22	6	
63	100	1.18	20	2	
50	97	0.6	18		
37.5	88	0.425	17		
20	67	0.212	16		
10	39	0.15	14		
6.3	30	0.063	8		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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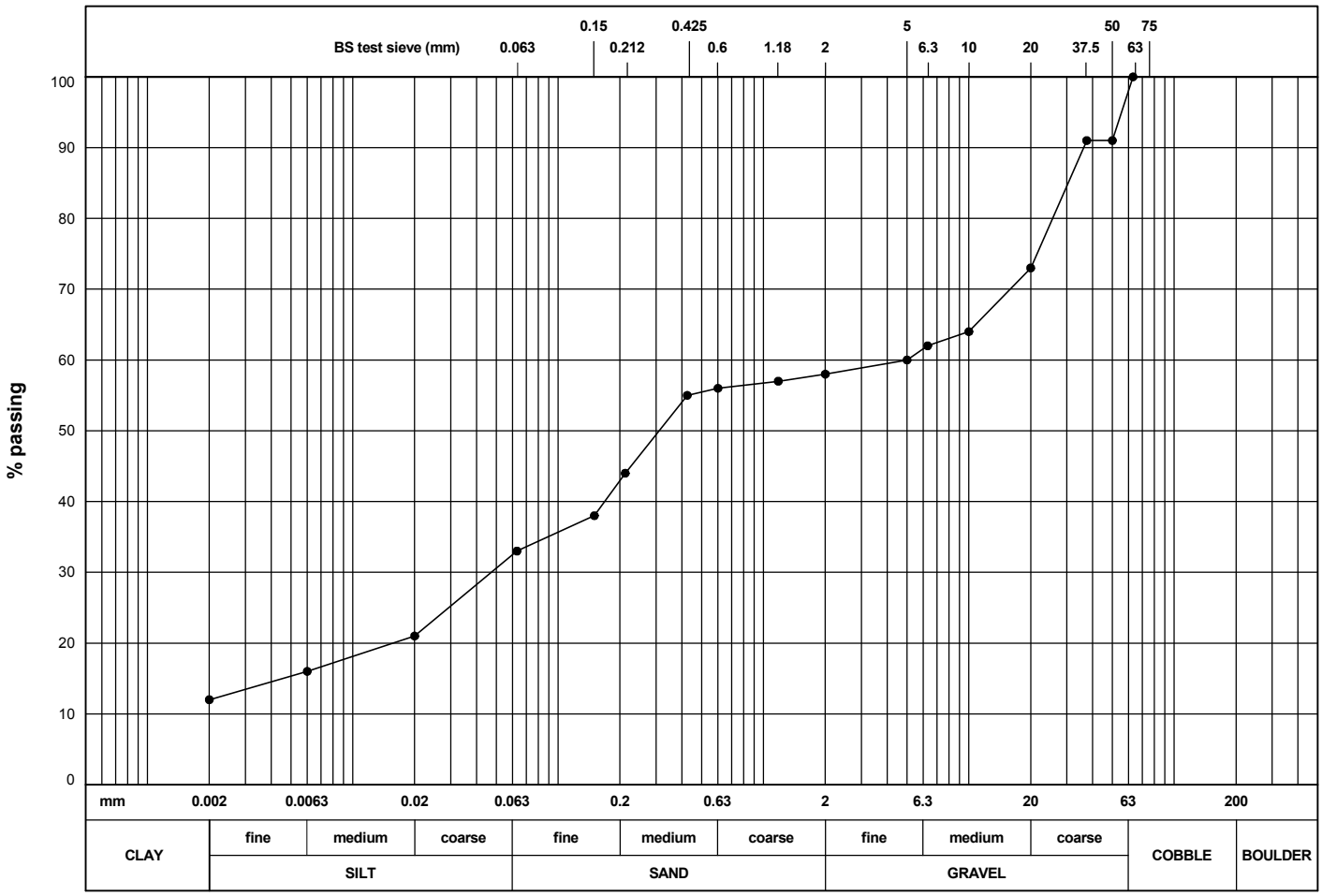
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown silty very sandy GRAVEL

BH/TP No.	BH708
SAMPLE No./TYPE	5B
SAMPLE DEPTH (m)	1.00
SPECIMEN DEPTH (m)	1.00



soil type	% fraction
CLAY	12
SILT	21
SILT & CLAY	33
SAND	25
GRAVEL	40
COBBLE & BOULDER	2
test method(s)	9.2 & 9.4

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	60	20	21
75		2	58	6	16
63	100	1.18	57	2	12
50	91	0.6	56		
37.5	91	0.425	55		
20	73	0.212	44		
10	64	0.15	38		
6.3	62	0.063	33		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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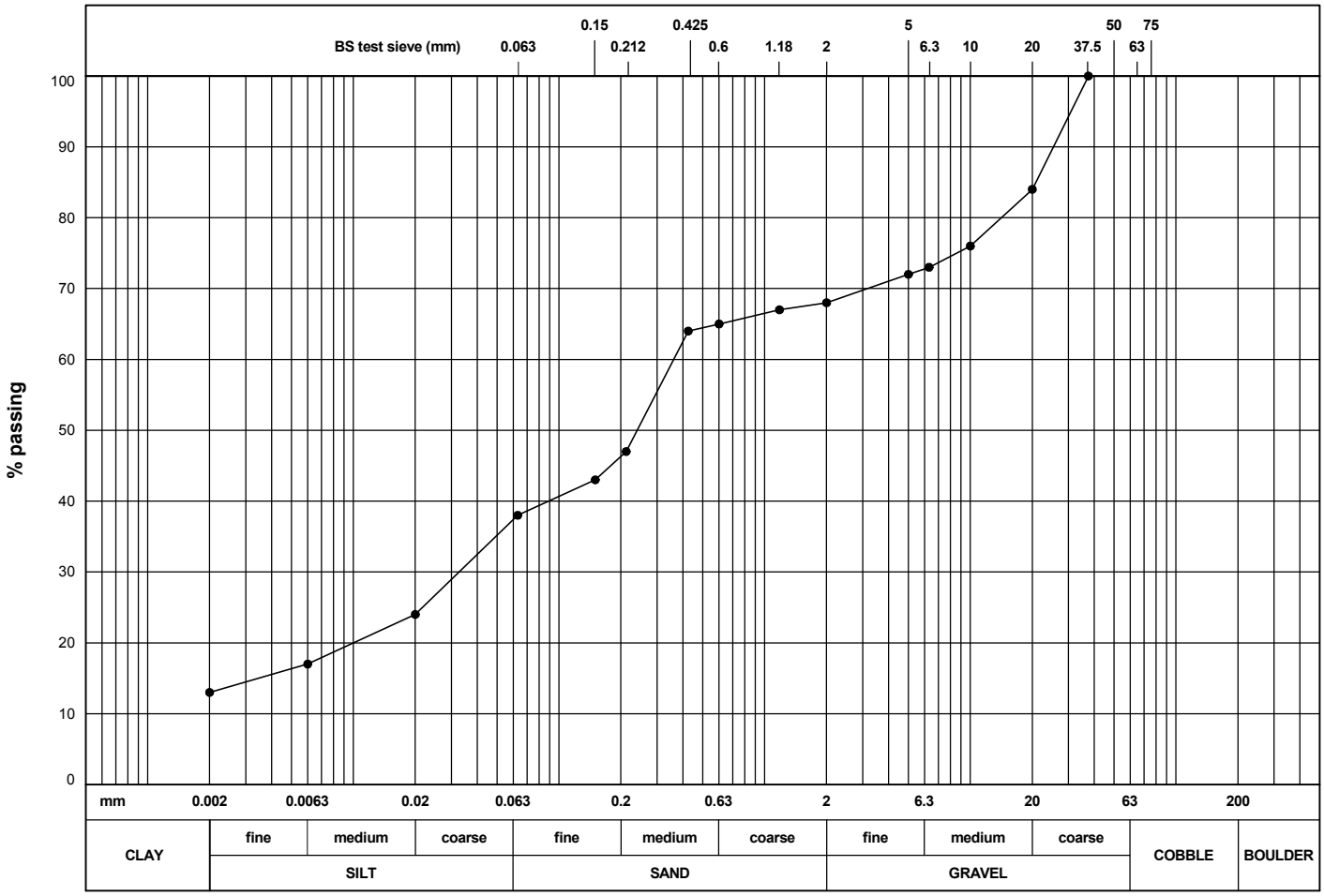
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brownish green slightly sandy slightly gravelly silty CLAY

BH/TP No.	BH708
SAMPLE No./TYPE	14X
SAMPLE DEPTH (m)	2.20
SPECIMEN DEPTH (m)	2.40



soil type	% fraction
CLAY	13
SILT	25
SILT & CLAY	38
SAND	30
GRAVEL	32
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	72	20	24
75		2	68	6	17
63		1.18	67	2	13
50		0.6	65		
37.5	100	0.425	64		
20	84	0.212	47		
10	76	0.15	43		
6.3	73	0.063	38		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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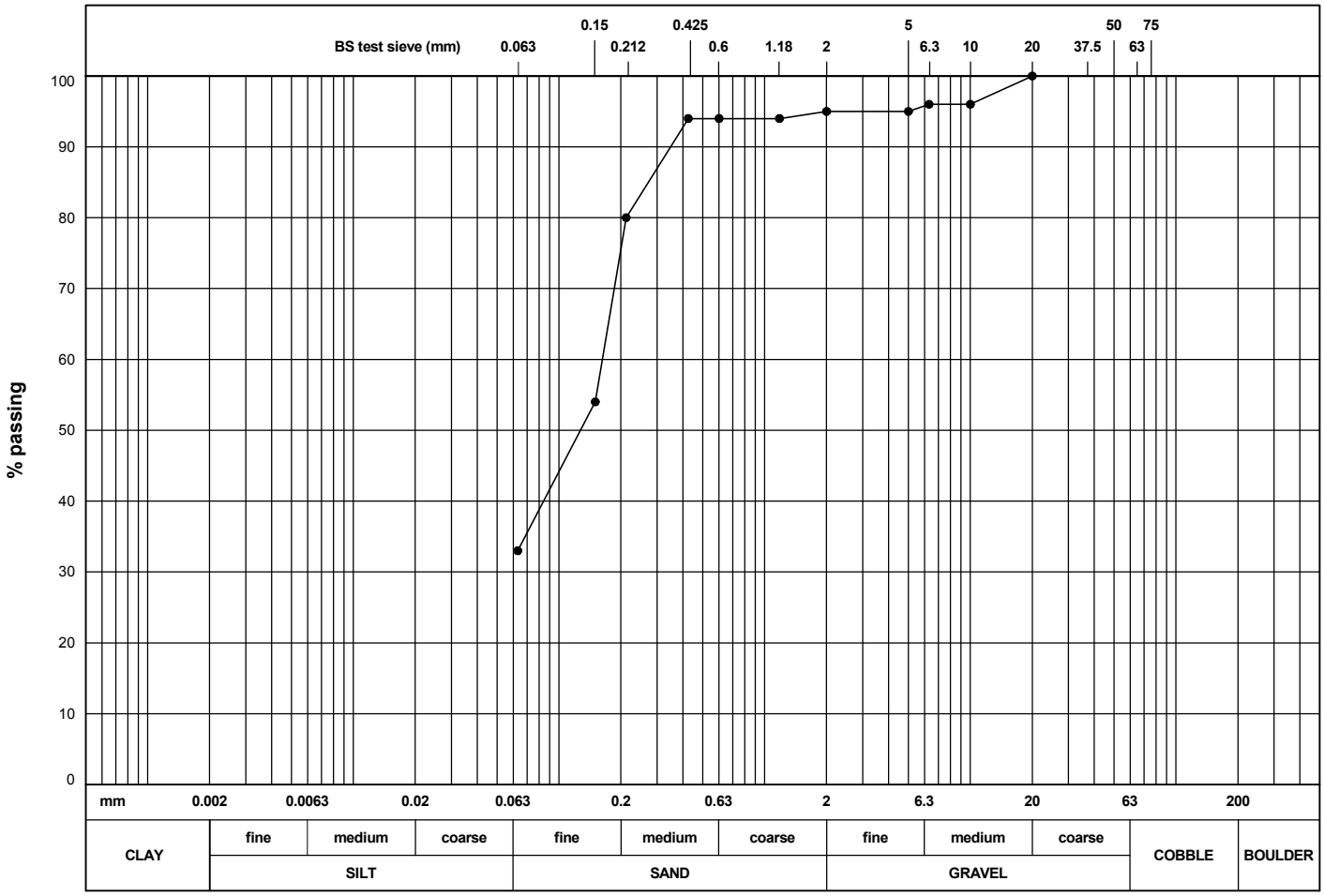
CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH708
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	21X
		SAMPLE DEPTH (m)	3.20
DESCRIPTION	Light brown very clayey slightly gravelly SAND	SPECIMEN DEPTH (m)	3.50



soil type	% fraction
CLAY	
SILT	
SILT & CLAY	33
SAND	62
GRAVEL	5
COBBLE & BOULDER	0
test method(s)	9.2

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing
150		5	95
75		2	95
63		1.18	94
50		0.6	94
37.5		0.425	94
20	100	0.212	80
10	96	0.15	54
6.3	96	0.063	33

particle size (μm)	% finer
20	
6	
2	

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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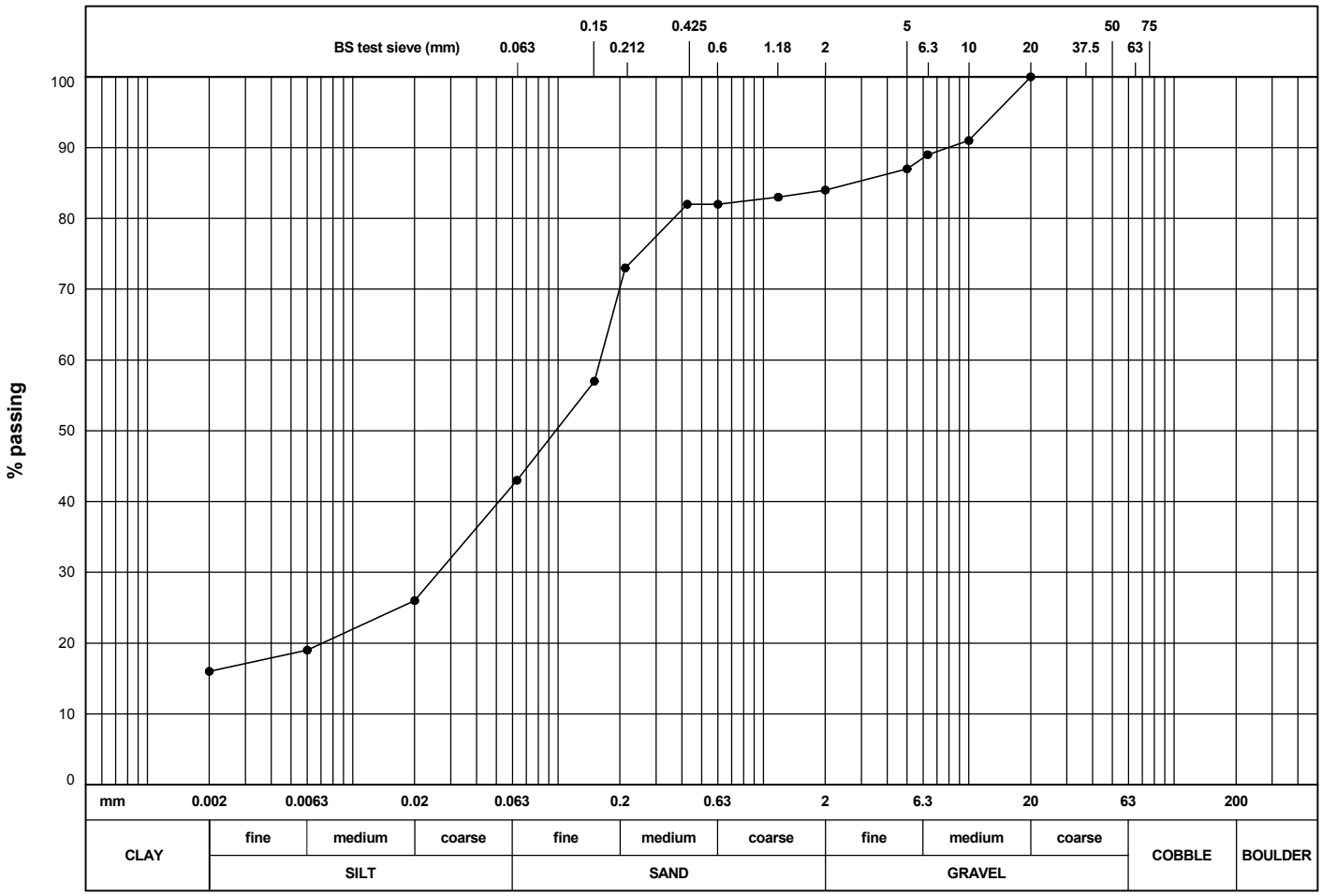
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown sandy slightly gravelly silty CLAY

BH/TP No.	BH708
SAMPLE No./TYPE	35X
SAMPLE DEPTH (m)	6.20
SPECIMEN DEPTH (m)	6.60



soil type	% fraction
CLAY	16
SILT	27
SILT & CLAY	43
SAND	41
GRAVEL	16
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	87	20	26
75		2	84	6	19
63		1.18	83	2	16
50		0.6	82		
37.5		0.425	82		
20	100	0.212	73		
10	91	0.15	57		
6.3	89	0.063	43		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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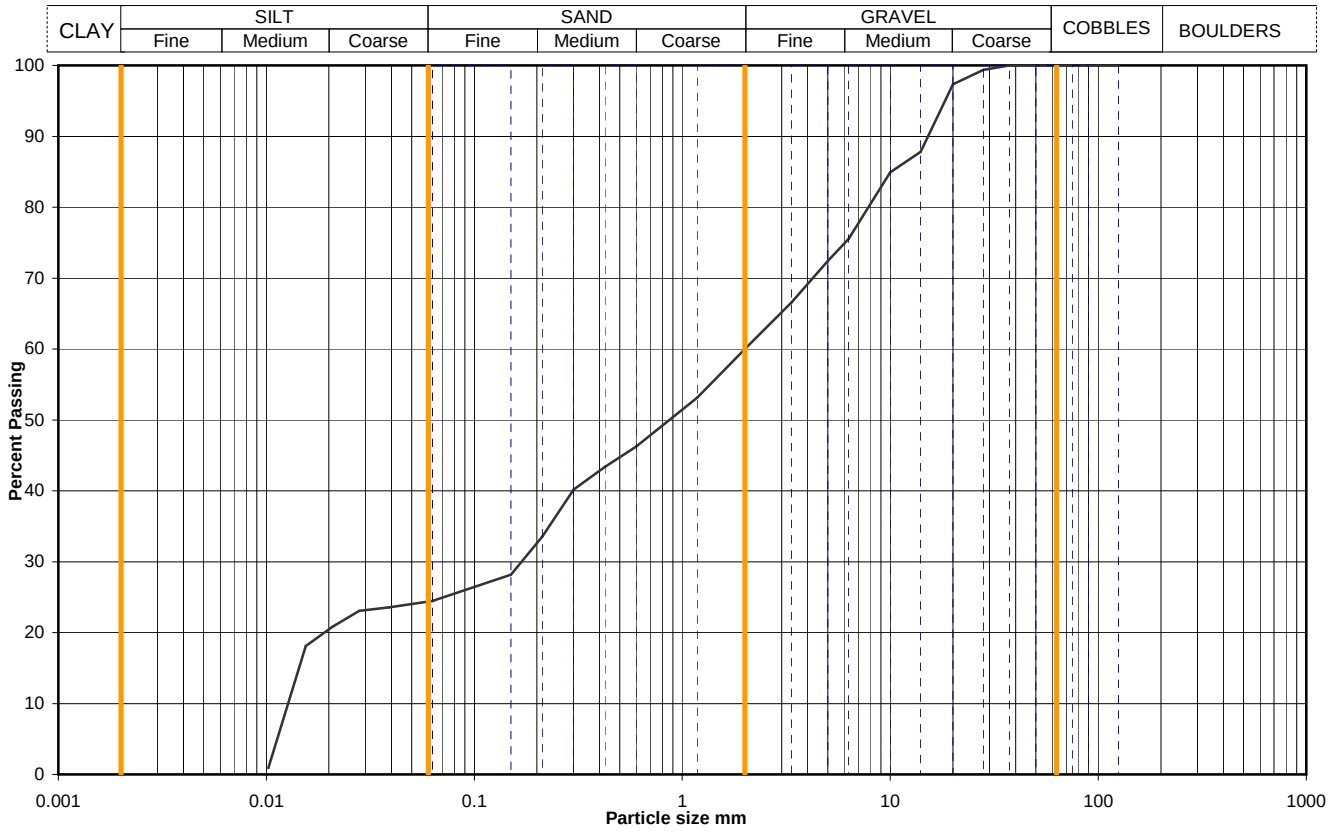
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	TP201		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	0.50		
			Samp No	2	Type	B
			ID	MASTER3193		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	24
90	100	0.0391	24
75	100	0.0279	23
63	100	0.0207	21
50	100	0.0155	18
37.5	100	0.0102	1
28	99		
20	97		
14	88		
10	85		
6.3	76		
5.0	72		
3.35	67		
2.00	60		
1.18	53	Particle density, Mg/m3	
0.600	46		
0.425	43	2.65 assumed	
0.300	40	Dry mass of sample, kg	
0.212	34		
0.150	28	10.0	
0.063	24		

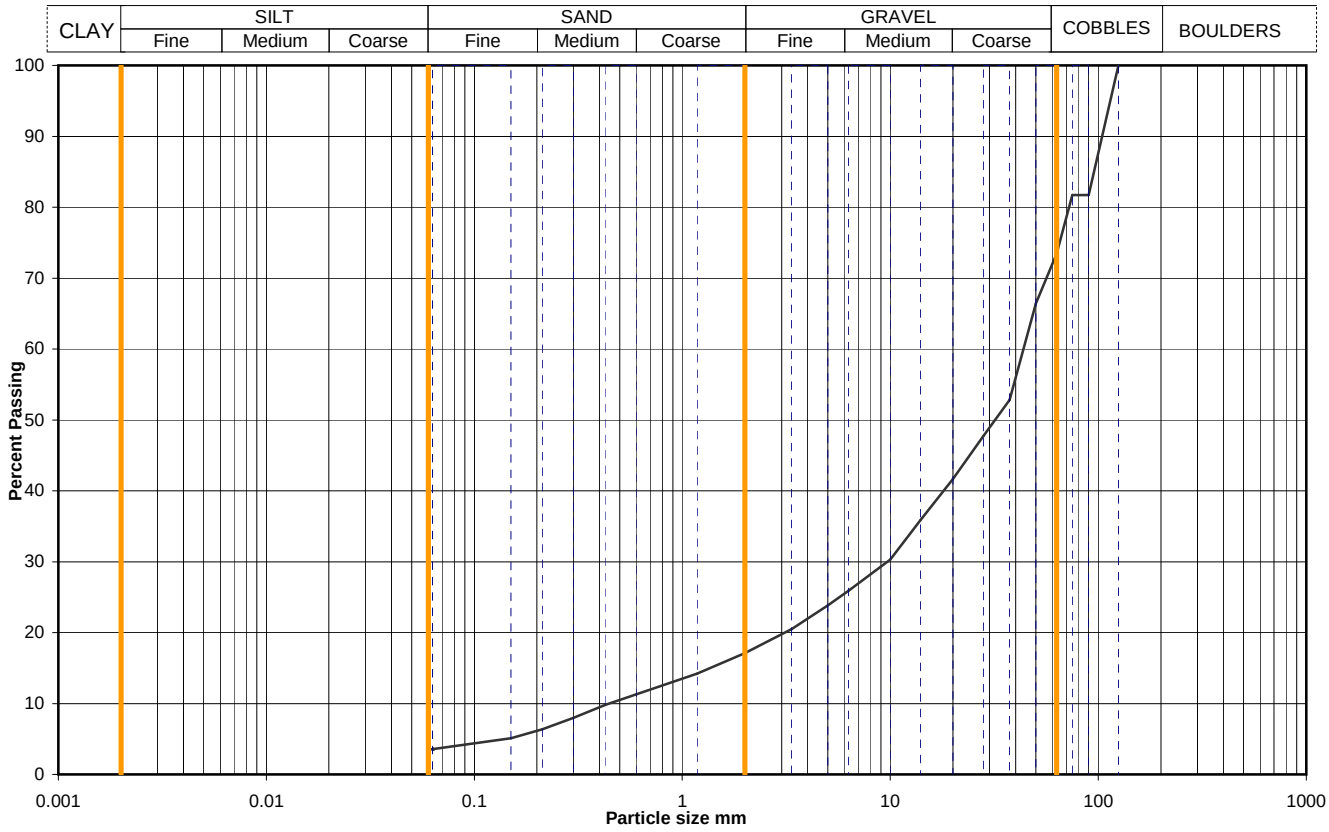
Soil description	Light brown very sandy very silty GRAVEL.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	40	40
	Sand	36	36
	Silt	24	24
	Clay	0	0

Uniformity Coefficient	D_{60} / D_{10}	157

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	TP201		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.00		
			Samp No	7	Type	B
			ID	MASTER3194		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	82		
75	82		
63	73		
50	66		
37.5	53		
28	48		
20	42		
14	36		
10	30		
6.3	26		
5.0	24		
3.35	21		
2.00	17		
1.18	14		
0.600	11		
0.425	10		
0.300	8	Dry mass of sample, kg	
0.212	6		
0.150	5	15.1	
0.063	4		

Soil description	Brown sandy GRAVEL with six cobbles.		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	27	0
	Gravel	56	77
	Sand	14	19
	Silt	silt+clay =	
	Clay	3	4

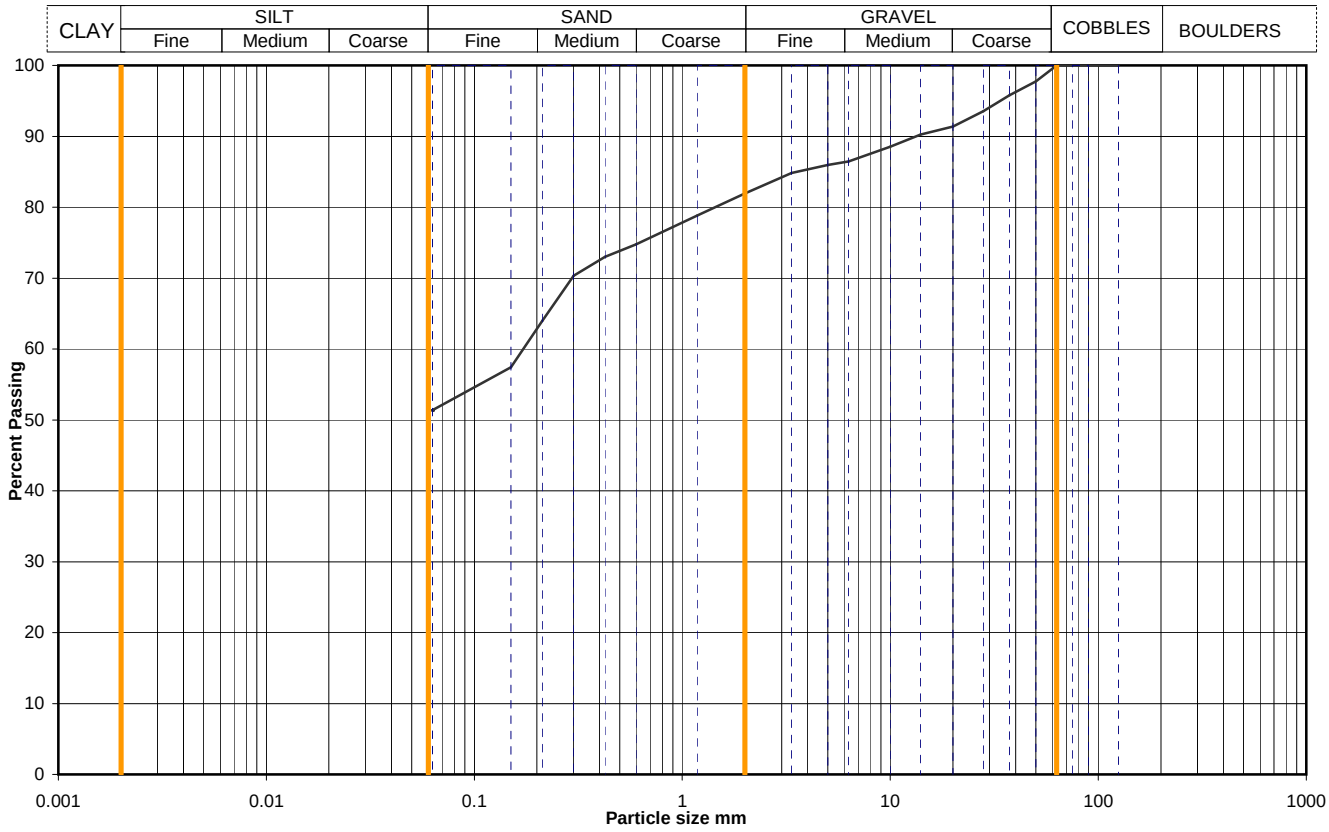
Uniformity Coefficient	D_{60} / D_{10}	98

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:37	**Figure** **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	TP301		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	0.50		
			Samp No	2	Type	B
			ID	MASTER3399		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	98		
37.5	96		
28	94		
20	91		
14	90		
10	89		
6.3	86		
5.0	86		
3.35	85		
2.00	82		
1.18	79		
0.600	75		
0.425	73		
0.300	70	Dry mass of sample, kg	
0.212	64		
0.150	57	20.5	
0.063	51		

Soil description	White CHALK composed of slightly sandy slightly gravelly clay.		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	18	18
	Sand	31	31
	Silt	silt+clay =	
	Clay	51	51

Uniformity Coefficient	D_{60} / D_{10}	Not applicable

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

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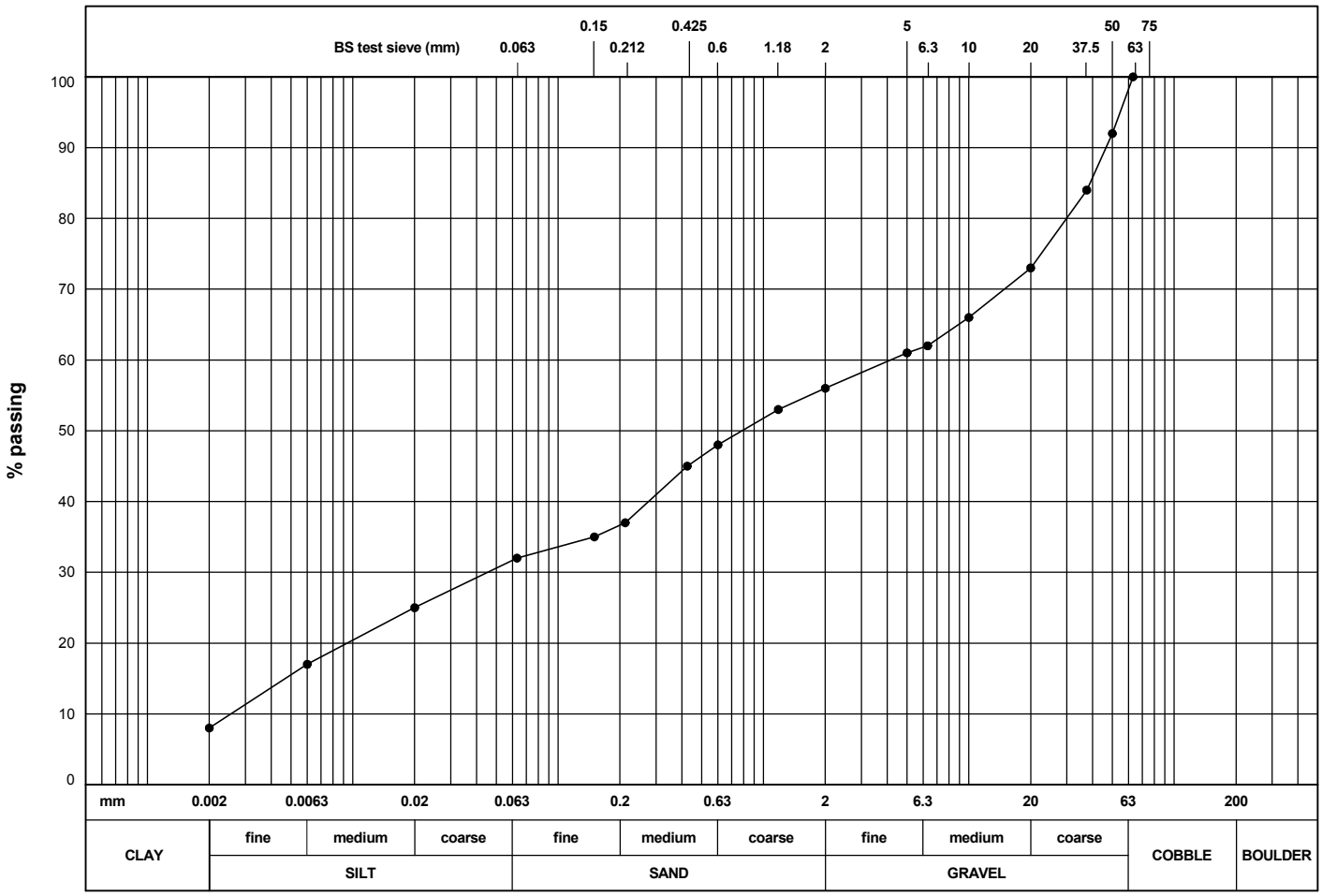
BS.1377 : Part 2 : 1990 : 9

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	TP301
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	14B
		SAMPLE DEPTH (m)	2.40
DESCRIPTION	Off white mottled brownish grey silty very sandy GRAVEL	SPECIMEN DEPTH (m)	2.40



soil type	% fraction
CLAY	8
SILT	24
SILT & CLAY	32
SAND	24
GRAVEL	42
COBBLE & BOULDER	2
test method(s)	9.2# & 9.4

BS test sieve (mm)	% passing
150	
75	
63	100
50	92
37.5	84
20	73
10	66
6.3	62

BS test sieve (mm)	% passing
5	61
2	56
1.18	53
0.6	48
0.425	45
0.212	37
0.15	35
0.063	32

particle size (μm)	% finer
20	25
6	17
2	8

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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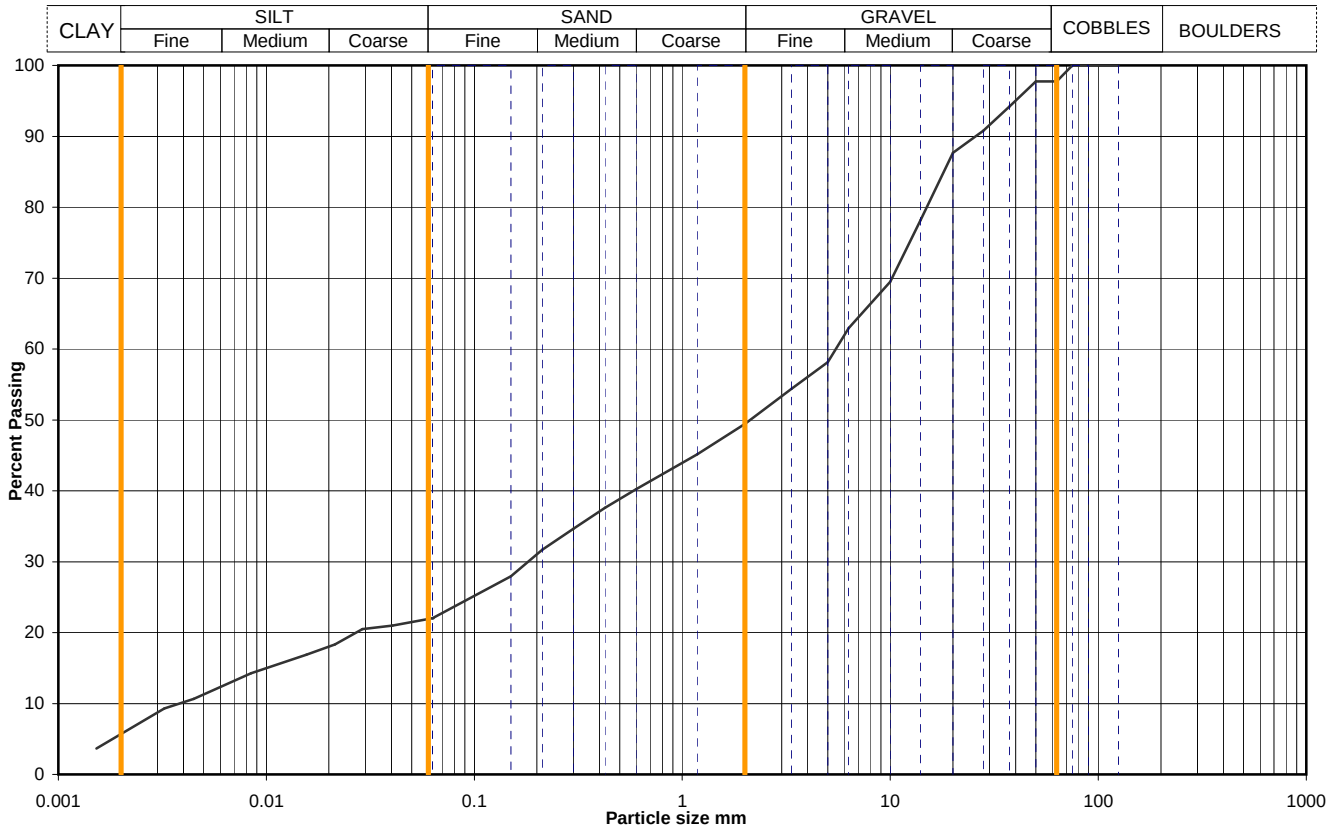
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	TP302		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.50		
			Samp No	7	Type	B
			ID	MASTER3249		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	22
90	100	0.0404	21
75	100	0.0289	20
63	98	0.0214	18
50	98	0.0156	17
37.5	94	0.0084	14
28	91	0.0045	11
20	88	0.0032	9
14	78	0.0015	4
10	69		
6.3	63		
5.0	58		
3.35	54		
2.00	49		
1.18	45	Particle density, Mg/m3	
0.600	40		
0.425	38	2.65 assumed	
0.300	35	Dry mass of sample, kg	
0.212	32		
0.150	28	14.8	
0.063	22		

Soil description	Grey very sandy silty GRAVEL.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	2	0
	Gravel	49	50
	Sand	28	29
	Silt	16	16
	Clay	5	5

Uniformity Coefficient	D_{60} / D_{10}	1434

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

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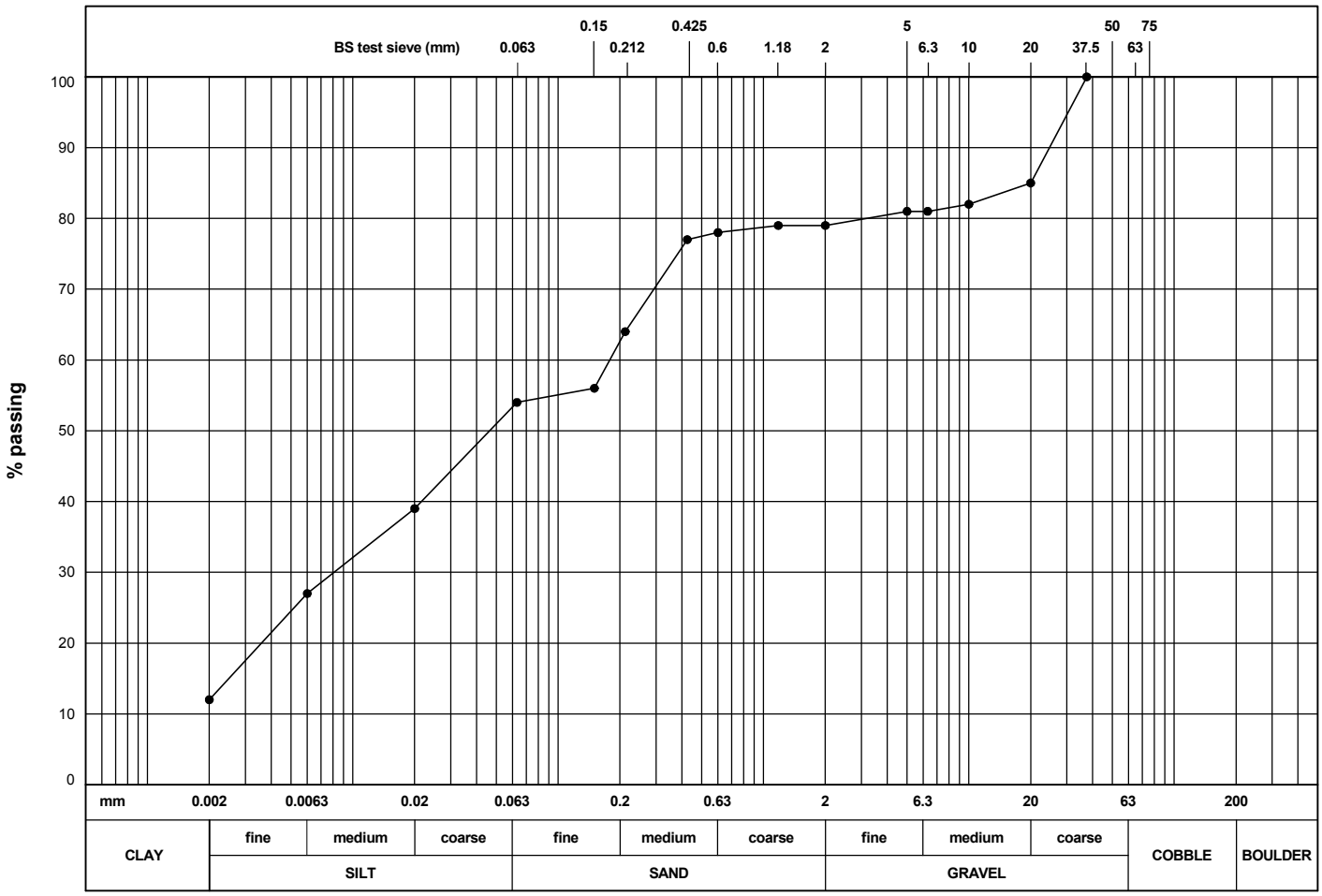
BS.1377 : Part 2 : 1990 : 9

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	TP302
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	19B
		SAMPLE DEPTH (m)	3.50
DESCRIPTION	Off white slightly gravelly slightly sandy SILT	SPECIMEN DEPTH (m)	3.50



soil type	% fraction
CLAY	12
SILT	42
SILT & CLAY	54
SAND	25
GRAVEL	21
COBBLE & BOULDER	0
test method(s)	9.2#&9.4

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	81	20	39
75		2	79	6	27
63		1.18	79	2	12
50		0.6	78		
37.5	100	0.425	77		
20	85	0.212	64		
10	82	0.15	56		
6.3	81	0.063	54		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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PARTICLE SIZE DISTRIBUTION

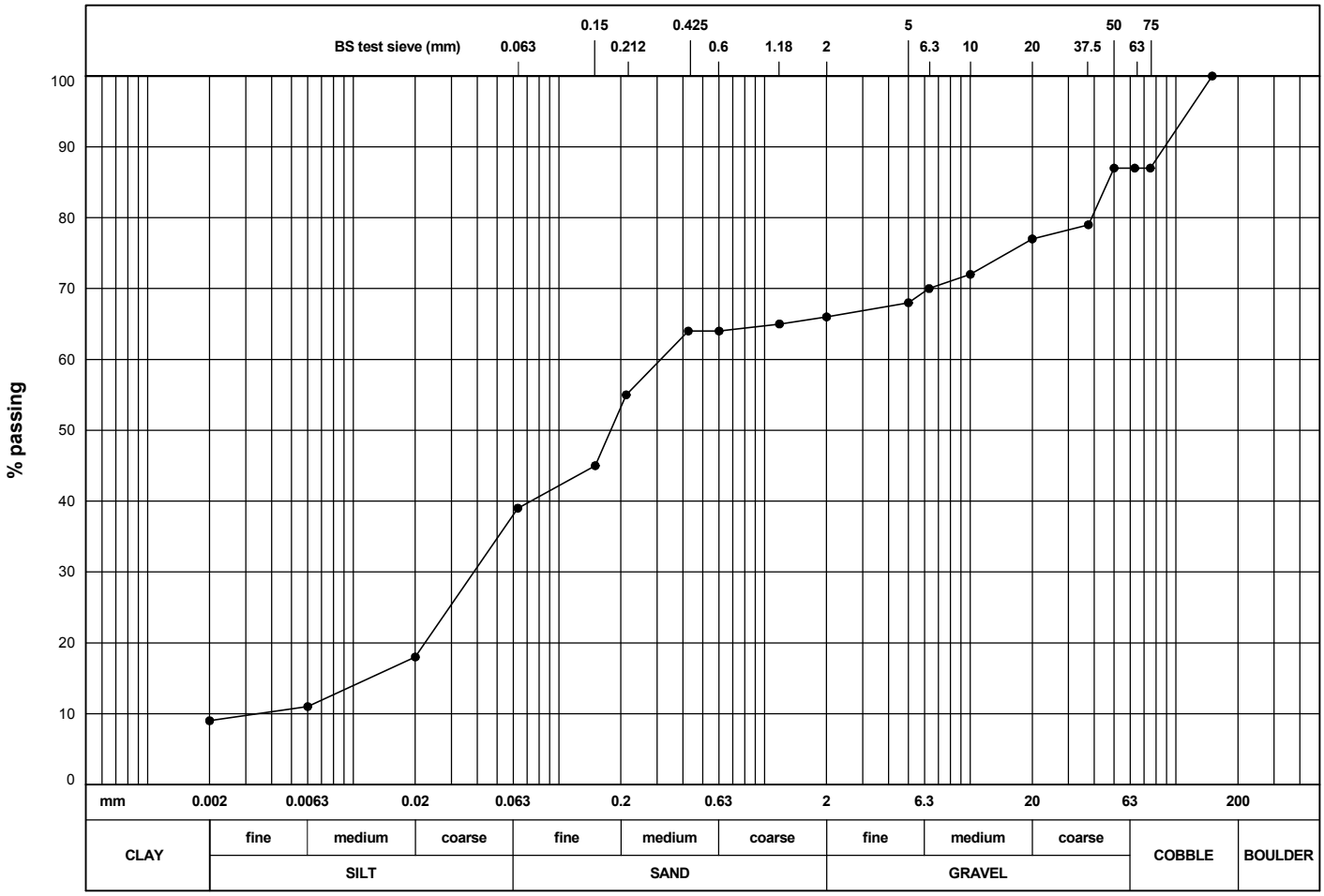
BS.1377 : Part 2 : 1990 : 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown slightly sandy slightly gravelly SILT with medium cobble content

BH/TP No.	TP701
SAMPLE No./TYPE	8B
SAMPLE DEPTH (m)	1.50
SPECIMEN DEPTH (m)	1.50



soil type	% fraction
CLAY	9
SILT	30
SILT & CLAY	39
SAND	27
GRAVEL	21
COBBLE & BOULDER	13
test method(s)	9.2 & 9.4

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150	100	5	68	20	18
75	87	2	66	6	11
63	87	1.18	65	2	9
50	87	0.6	64		
37.5	79	0.425	64		
20	77	0.212	55		
10	72	0.15	45		
6.3	70	0.063	39		

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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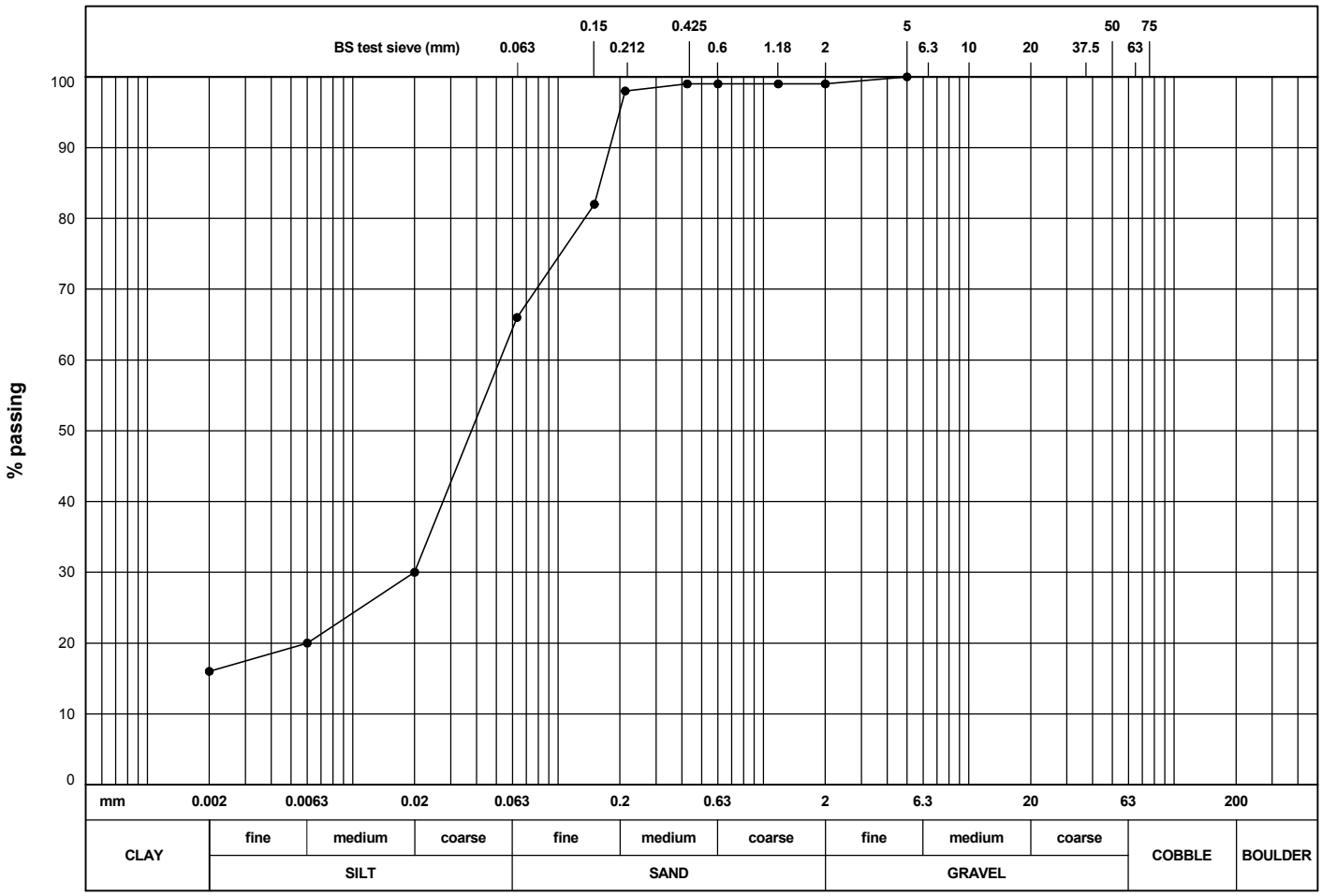
BS.1377 : Part 2 : 1990 : 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Light brown slightly sandy slightly gravelly SILT

BH/TP No.	TP701
SAMPLE No./TYPE	20B
SAMPLE DEPTH (m)	3.20
SPECIMEN DEPTH (m)	3.20



soil type	% fraction
CLAY	16
SILT	50
SILT & CLAY	66
SAND	33
GRAVEL	1
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	100	20	30
75		2	99	6	20
63		1.18	99	2	16
50		0.6	99		
37.5		0.425	99		
20		0.212	98		
10		0.15	82		
6.3		0.063	66		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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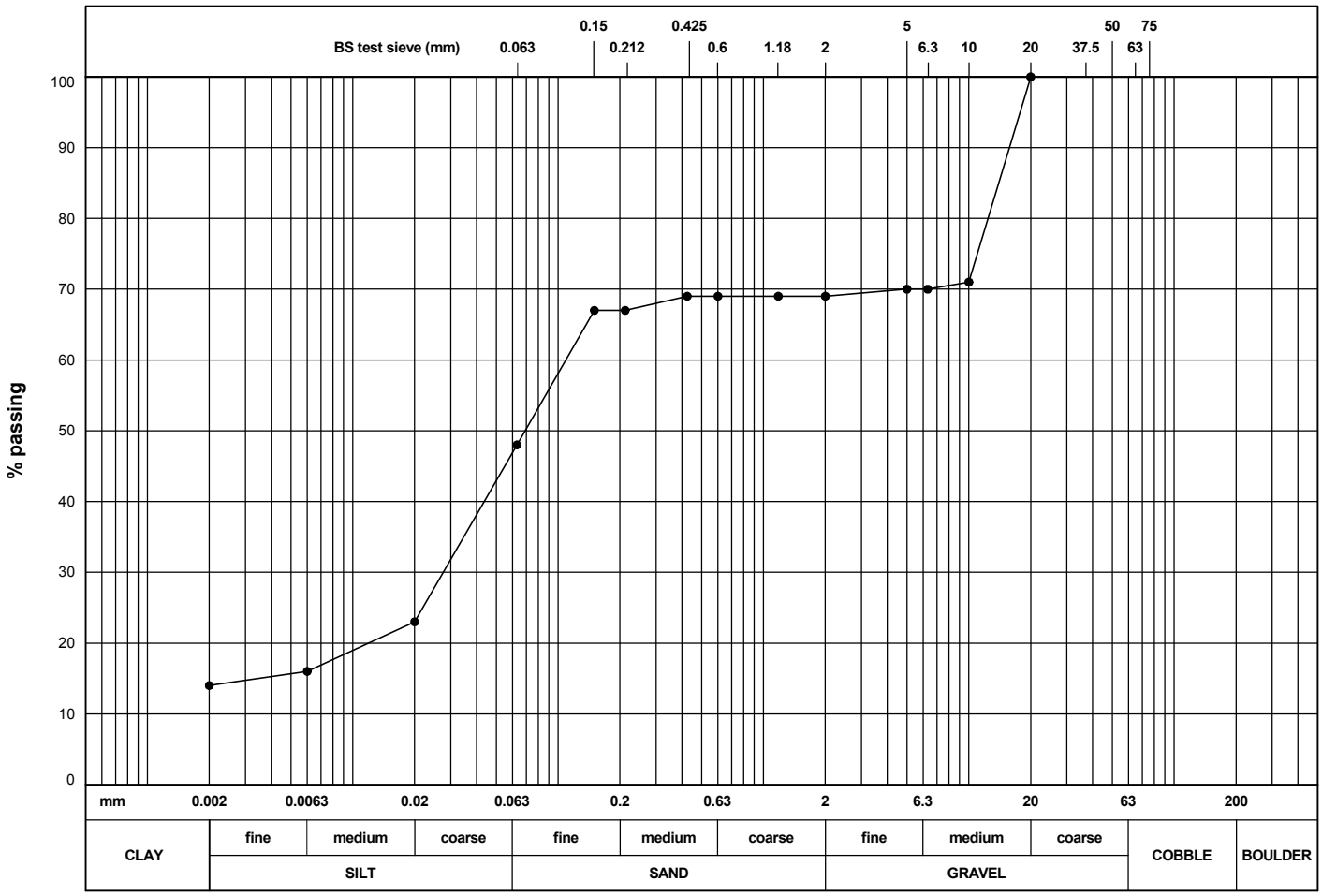
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown slightly sandy slightly gravelly silty CLAY

BH/TP No.	TP702
SAMPLE No./TYPE	7B
SAMPLE DEPTH (m)	1.50
SPECIMEN DEPTH (m)	1.50



soil type	% fraction
CLAY	14
SILT	34
SILT & CLAY	48
SAND	21
GRAVEL	31
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	70	20	23
75		2	69	6	16
63		1.18	69	2	14
50		0.6	69		
37.5		0.425	69		
20	100	0.212	67		
10	71	0.15	67		
6.3	70	0.063	48		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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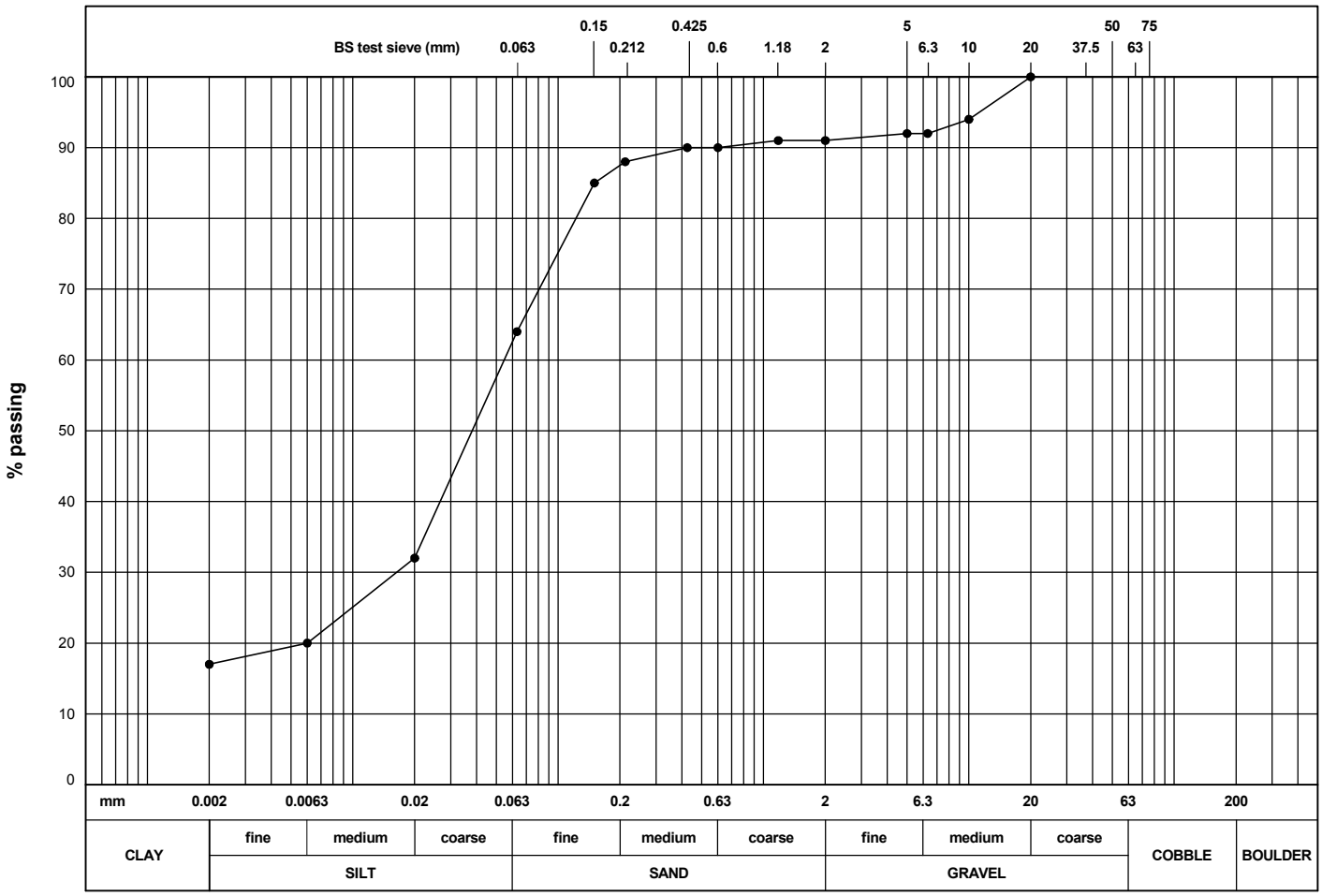
CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown slightly gravelly sandy silty CLAY

BH/TP No.	TP702
SAMPLE No./TYPE	13B
SAMPLE DEPTH (m)	2.50
SPECIMEN DEPTH (m)	2.50



soil type	% fraction
CLAY	17
SILT	47
SILT & CLAY	64
SAND	27
GRAVEL	9
COBBLE & BOULDER	0
test method(s)	9.2 &9.4

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	92	20	32
75		2	91	6	20
63		1.18	91	2	17
50		0.6	90		
37.5		0.425	90		
20	100	0.212	88		
10	94	0.15	85		
6.3	92	0.063	64		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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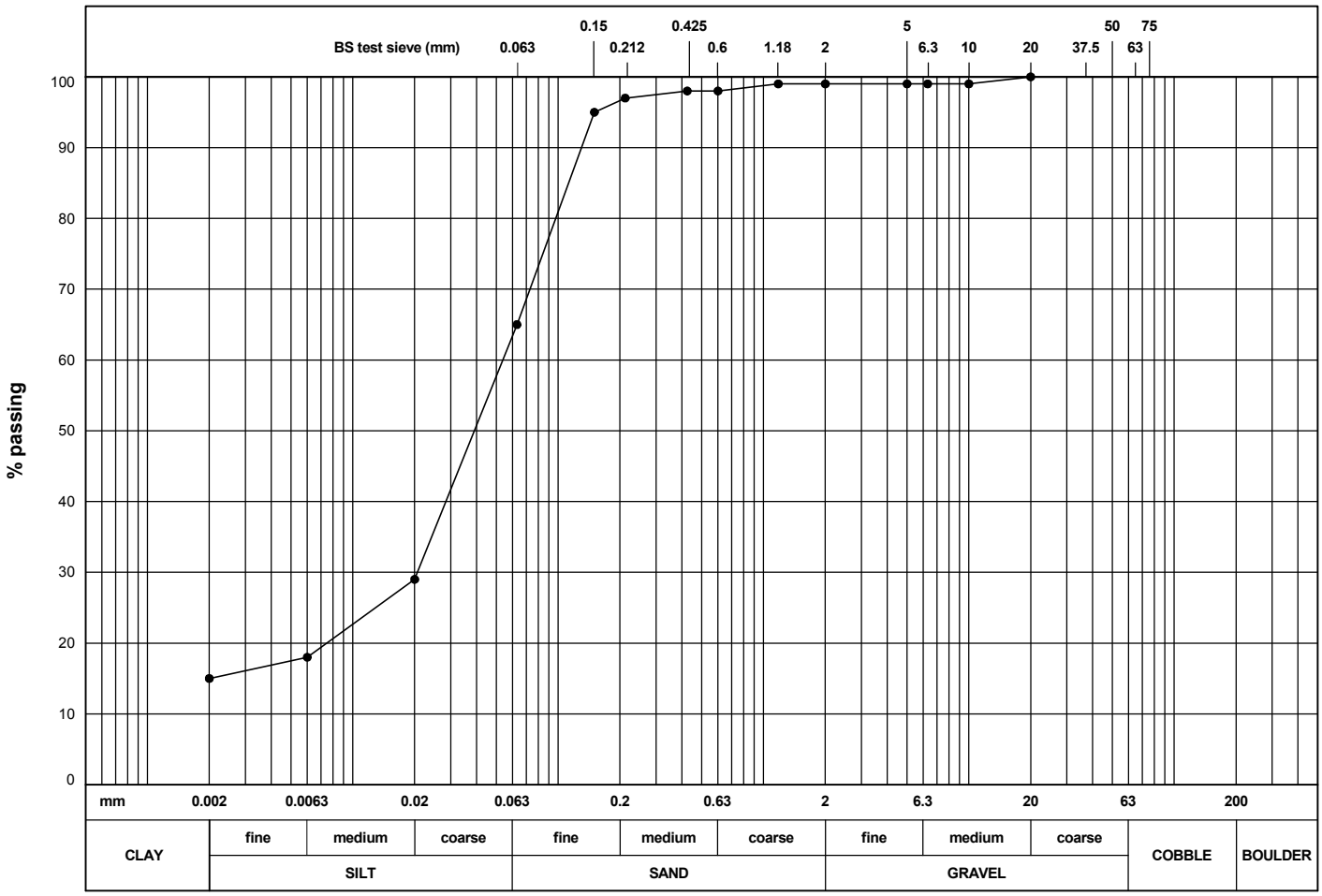
BS.1377 : Part 2 : 1990 : 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brown slightly sandy slightly gravelly silty CLAY

BH/TP No.	TP702
SAMPLE No./TYPE	20B
SAMPLE DEPTH (m)	3.40
SPECIMEN DEPTH (m)	3.40



soil type	% fraction
CLAY	15
SILT	50
SILT & CLAY	65
SAND	34
GRAVEL	1
COBBLE & BOULDER	0
test method(s)	9.2 & 9.4

test method:
9.2 - wet sieving
9.3 - dry sieving
9.4 - sedimentation by pipette
9.5 - sedimentation by hydrometer

BS test sieve (mm)	% passing	BS test sieve (mm)	% passing	particle size (μm)	% finer
150		5	99	20	29
75		2	99	6	18
63		1.18	99	2	15
50		0.6	98		
37.5		0.425	98		
20	100	0.212	97		
10	99	0.15	95		
6.3	99	0.063	65		

remarks:
# denotes sample tested is smaller than that which is recommended in accordance with BS1377

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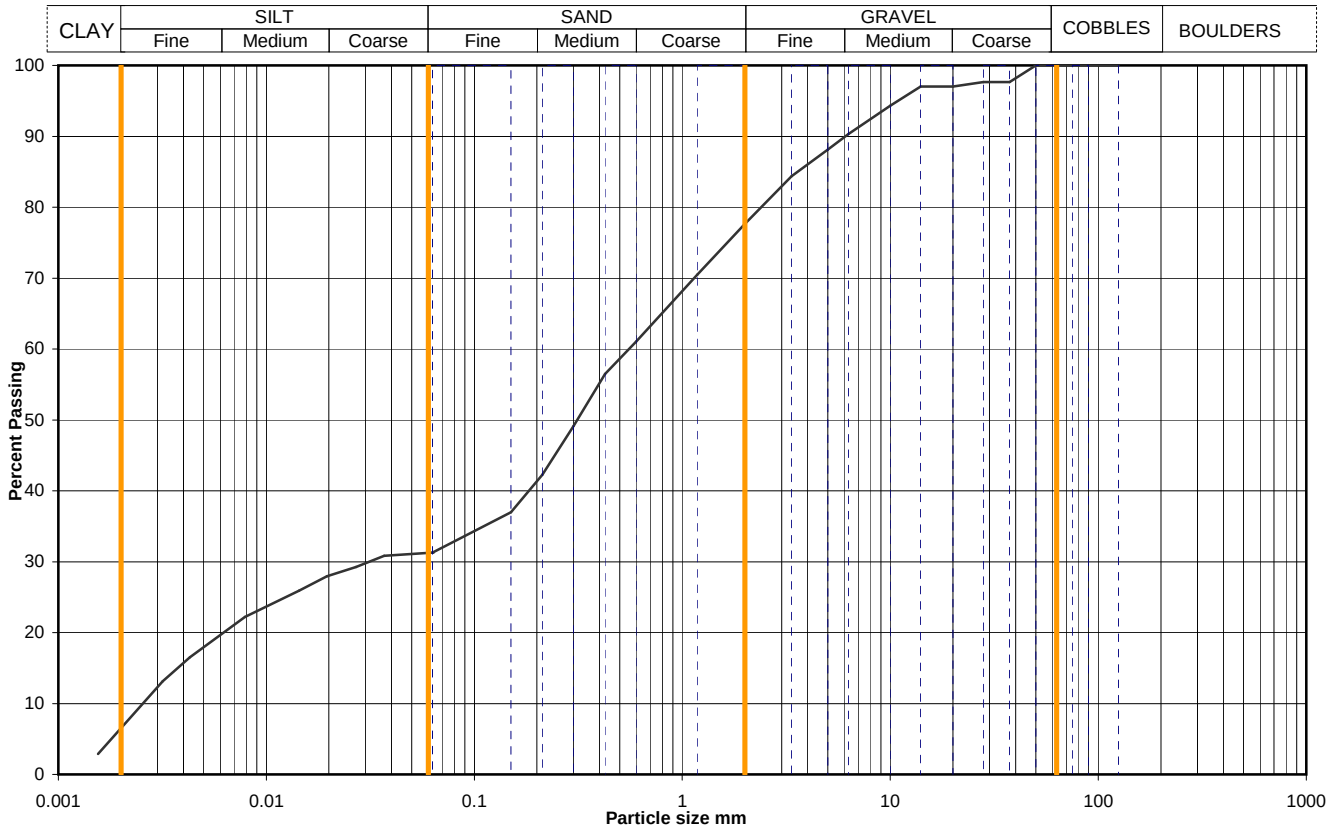
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS101		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.00		
			Samp No	5	Type	B
			ID	MASTER3195		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	31
90	100	0.0369	31
75	100	0.0270	29
63	100	0.0196	28
50	100	0.0144	26
37.5	98	0.0079	22
28	98	0.0043	17
20	97	0.0032	13
14	97	0.0015	3
10	94		
6.3	90		
5.0	88		
3.35	84		
2.00	78		
1.18	70	Particle density, Mg/m3	
0.600	61		
0.425	56	2.65 assumed	
0.300	49	Dry mass of sample, kg	
0.212	42		
0.150	37	4.6	
0.063	31		

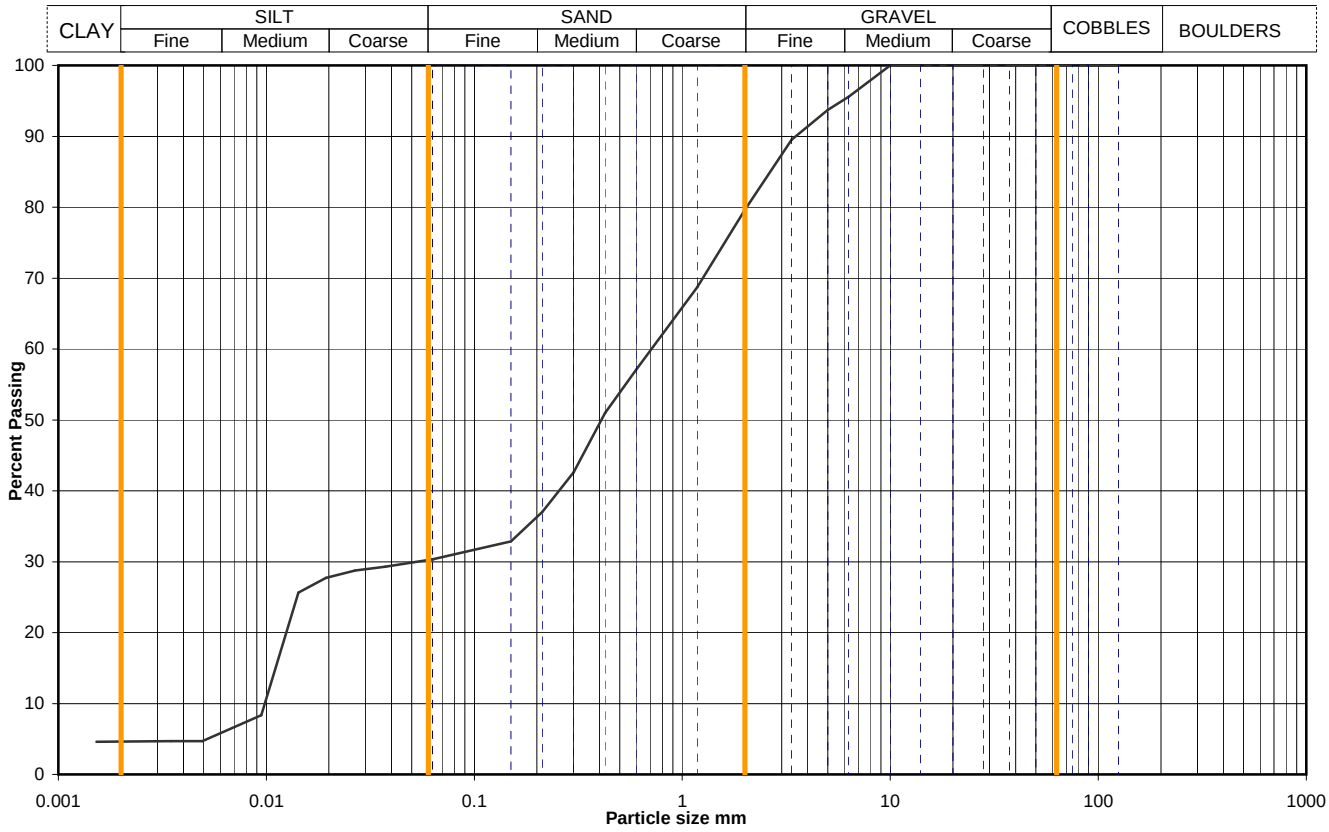
Soil description	Brown very gravelly SAND.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	22	22
	Sand	46	46
	Silt	25	25
	Clay	7	7

Uniformity Coefficient	D_{60} / D_{10}	218

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS101		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	3.00		
			Samp No	18	Type	X
			ID	MASTER3200		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	30
90	100	0.0374	29
75	100	0.0267	29
63	100	0.0193	28
50	100	0.0142	26
37.5	100	0.0095	8
28	100	0.0049	5
20	100	0.0035	5
14	100	0.0015	5
10	100		
6.3	96		
5.0	94		
3.35	90		
2.00	80		
1.18	69	Particle density, Mg/m3	
0.600	57		
0.425	51	2.65 assumed	
0.300	43	Dry mass of sample, kg	
0.212	37		
0.150	33	3.6	
0.063	30		

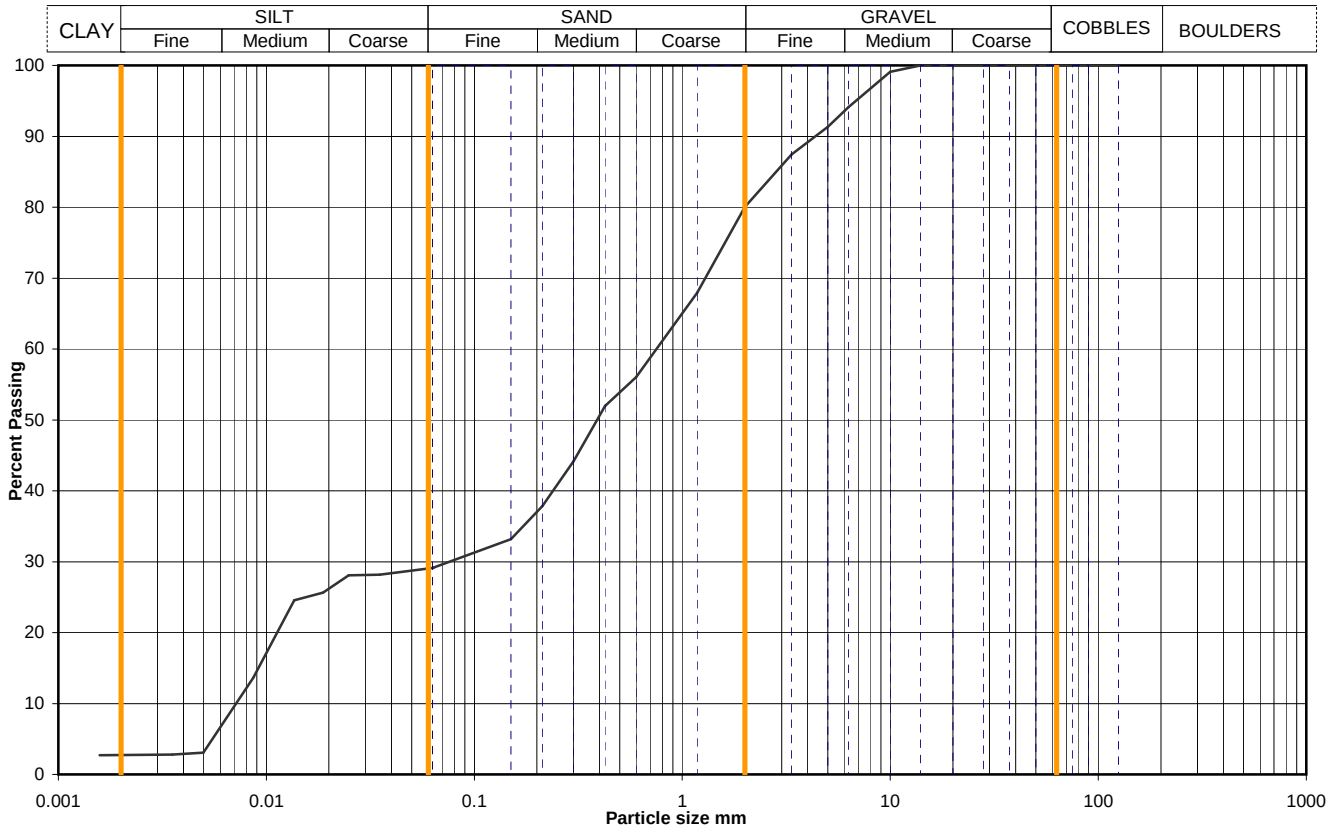
Soil description	Brown slightly gravelly sandy SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	20	20
	Sand	49	49
	Silt	26	26
	Clay	5	5

Uniformity Coefficient	D_{60} / D_{10}	72

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS101		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	4.00		
			Samp No	25	Type	X
			ID	MASTER3202		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	29
90	100	0.0351	28
75	100	0.0249	28
63	100	0.0188	26
50	100	0.0136	25
37.5	100	0.0086	14
28	100	0.0050	3
20	100	0.0035	3
14	100	0.0016	3
10	99		
6.3	94		
5.0	91		
3.35	87		
2.00	80		
1.18	68	Particle density, Mg/m3	
0.600	56		
0.425	52	2.65 assumed	
0.300	44	Dry mass of sample, kg	
0.212	38		
0.150	33	0.9	
0.063	29		

Soil description	Brown slightly gravelly sandy SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	20	20
	Sand	51	51
	Silt	26	26
	Clay	3	3

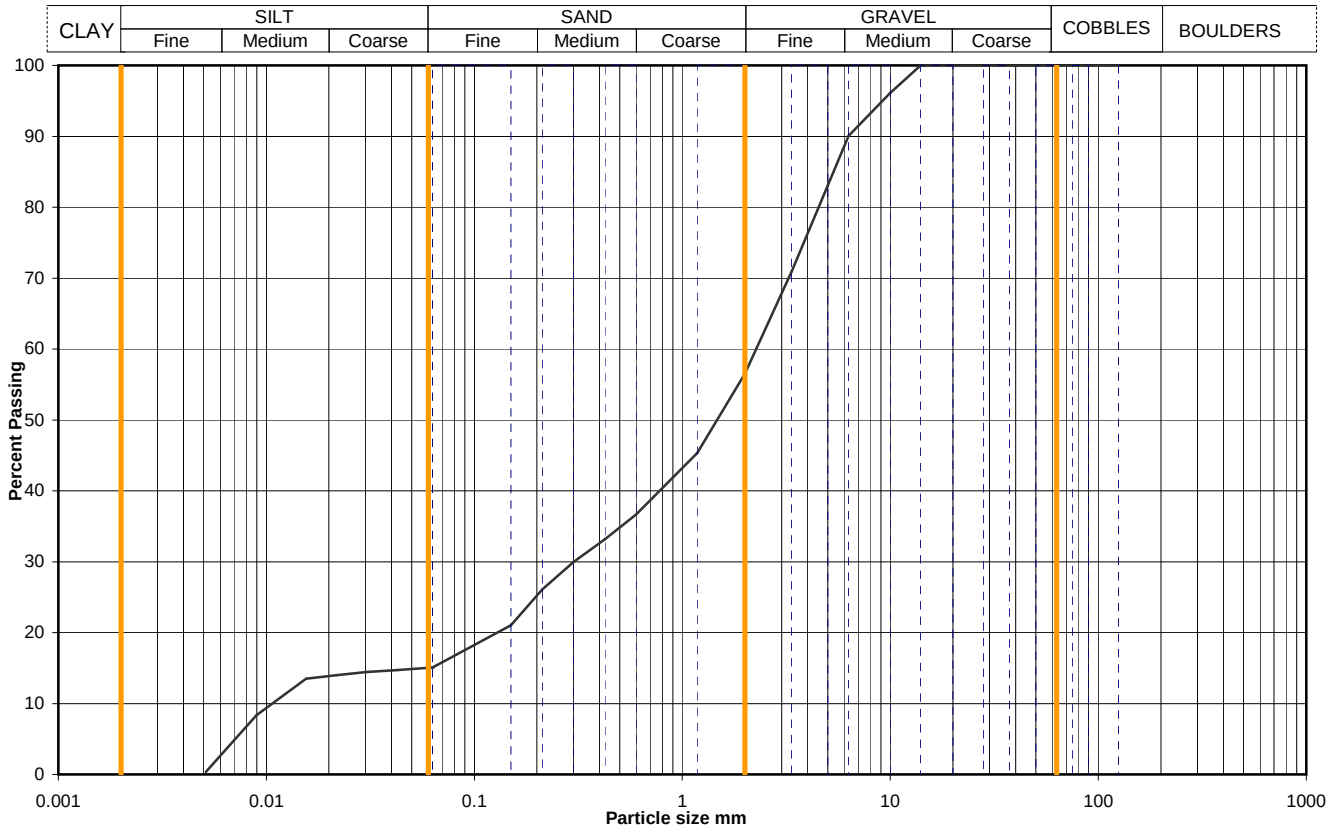
Uniformity Coefficient	D_{60} / D_{10}	105

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:37	**Figure** **PSD**

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS102		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.00		
			Samp No	5	Type	B
			ID	MASTER3252		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	15
90	100	0.0426	15
75	100	0.0304	14
63	100	0.0217	14
50	100	0.0155	14
37.5	100	0.0090	8
28	100	0.0051	0
20	100		
14	100		
10	96		
6.3	90		
5.0	83		
3.35	71		
2.00	57		
1.18	45	Particle density, Mg/m3	
0.600	37		
0.425	33	2.65 assumed	
0.300	30	Dry mass of sample, kg	
0.212	26		
0.150	21	2.5	
0.063	15		

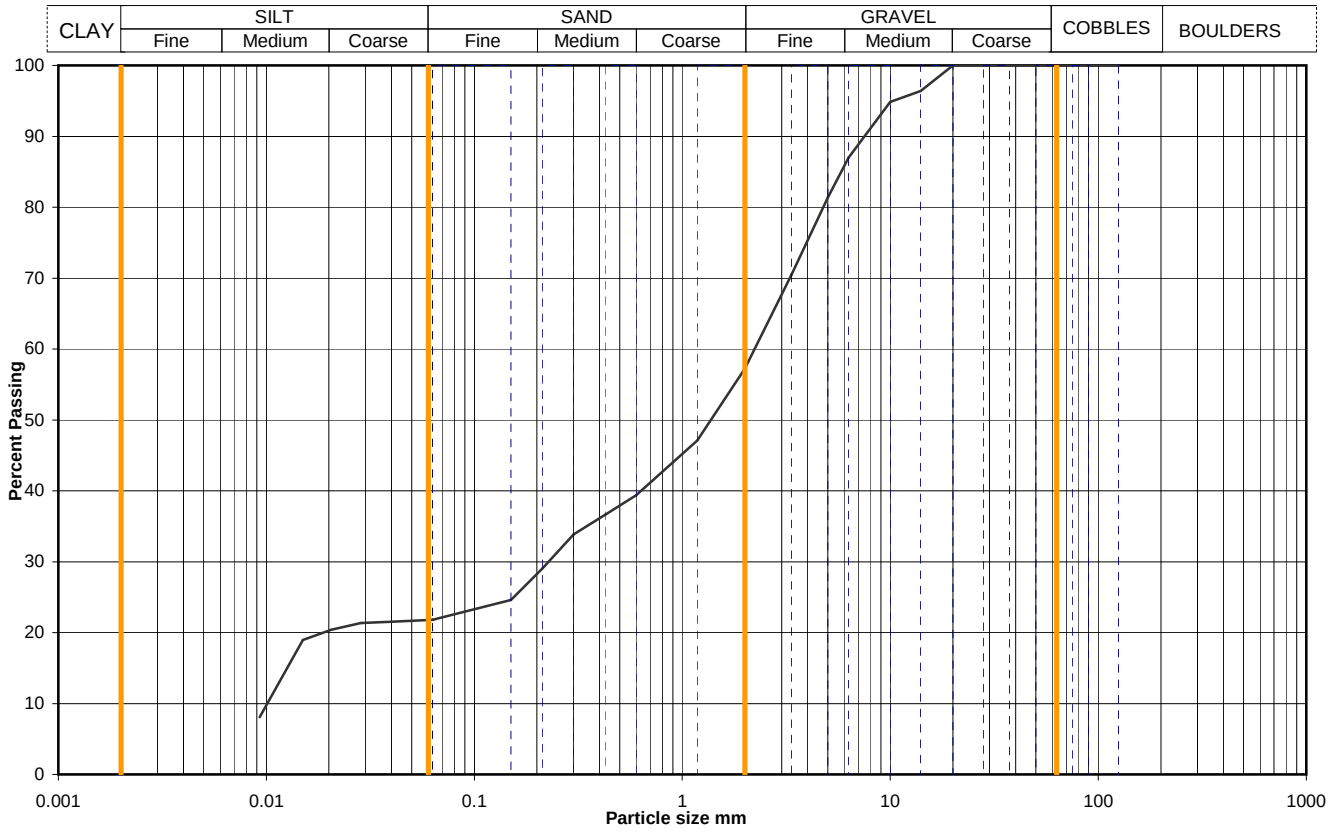
Soil description	Brown silty SAND AND GRAVEL.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	43	43
	Sand	42	42
	Silt	15	15
	Clay	0	0

Uniformity Coefficient	D_{60} / D_{10}	212

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS102		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	2.00		
			Samp No	13	Type	X
			ID	MASTER3255		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	22
90	100	0.0400	22
75	100	0.0284	21
63	100	0.0205	20
50	100	0.0150	19
37.5	100	0.0093	8
28	100		
20	100		
14	96		
10	95		
6.3	87		
5.0	81		
3.35	71		
2.00	57		
1.18	47	Particle density, Mg/m3	
0.600	39		
0.425	37	2.65 assumed	
0.300	34	Dry mass of sample, kg	
0.212	29		
0.150	25	3.6	
0.063	22		

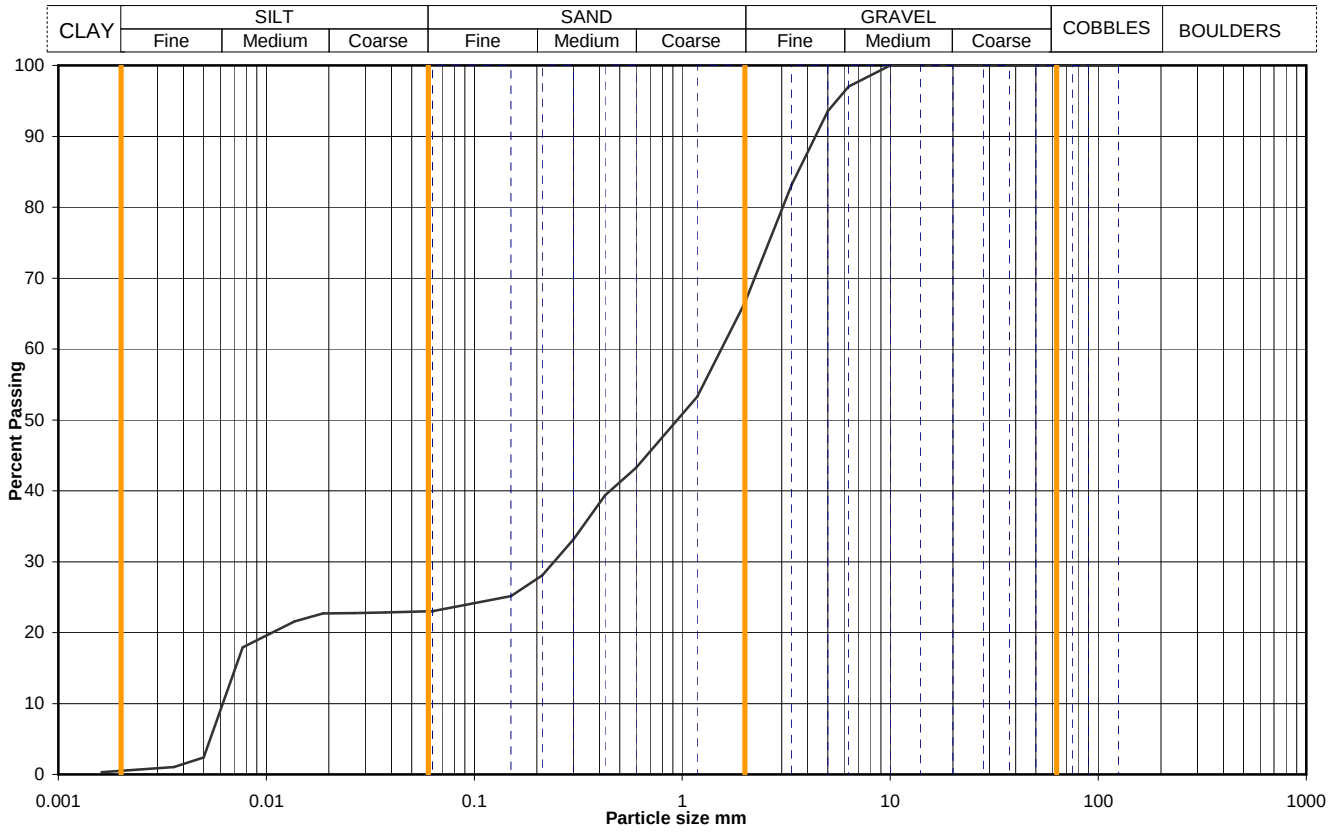
Soil description	Grey sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	43	43
	Sand	35	35
	Silt	22	22
	Clay	0	0

Uniformity Coefficient	D_{60} / D_{10}	220

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS102		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	3.00		
			Samp No	19	Type	X
			ID	MASTER3257		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	23
90	100	0.0373	23
75	100	0.0265	23
63	100	0.0188	23
50	100	0.0137	22
37.5	100	0.0077	18
28	100	0.0050	2
20	100	0.0036	1
14	100	0.0016	0
10	100		
6.3	97		
5.0	94		
3.35	83		
2.00	67		
1.18	53	Particle density, Mg/m3	
0.600	43		
0.425	39	2.65 assumed	
0.300	33	Dry mass of sample, kg	
0.212	28		
0.150	25	2.9	
0.063	23		

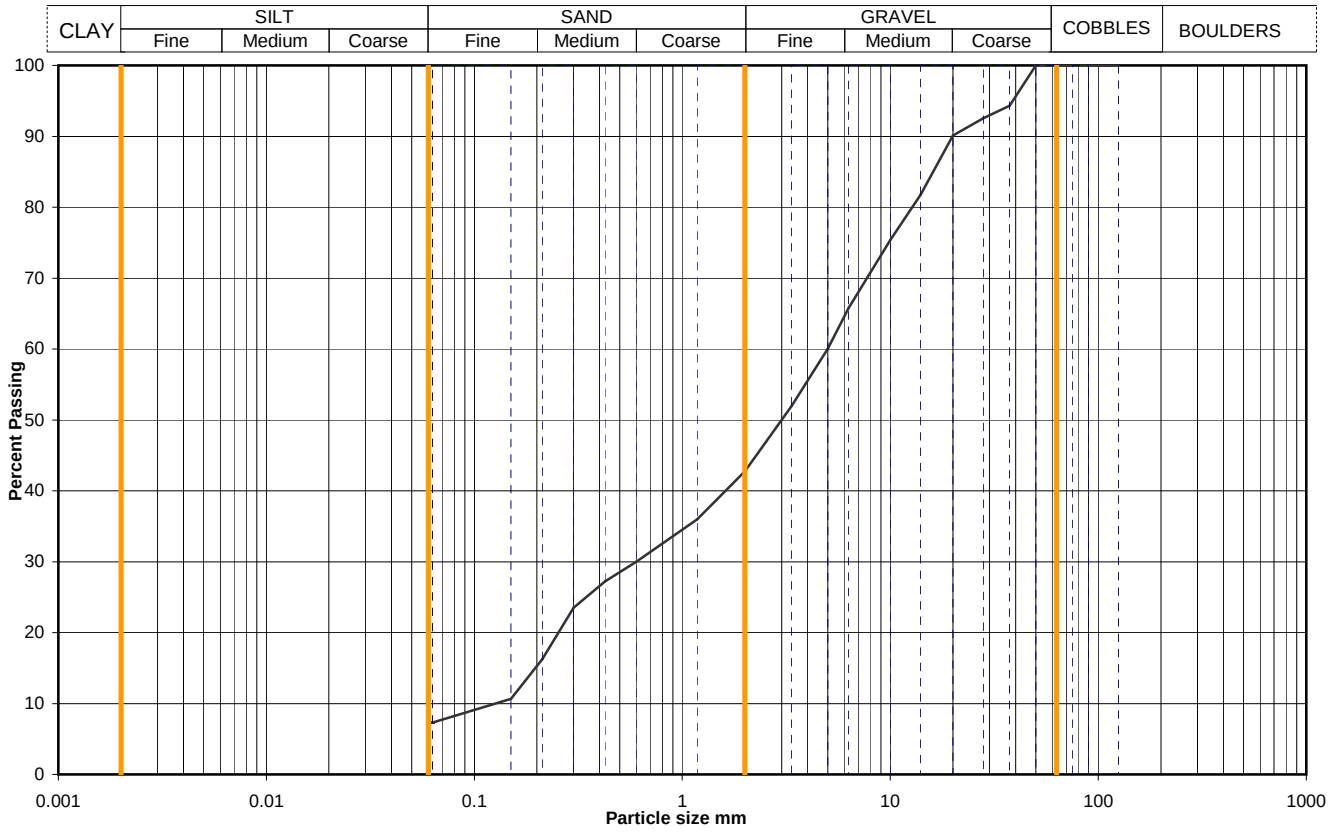
Soil description	Light brown slightly gravelly sandy SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	33	33
	Sand	44	44
	Silt	22	22
	Clay	1	1

Uniformity Coefficient	D_{60} / D_{10}	250

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.00		
			Samp No	5	Type	B
			ID	MASTER3261		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	94		
28	93		
20	90		
14	82		
10	75		
6.3	66		
5.0	60		
3.35	52		
2.00	43		
1.18	36		
0.600	30		
0.425	27		
0.300	24	Dry mass of sample, kg	
0.212	16		
0.150	11	2.0	
0.063	7		

Soil description	Brown very sandy silty GRAVEL.		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	57	57
	Sand	35	35
	Silt	silt+clay =	
	Clay	8	8

Uniformity Coefficient	D_{60} / D_{10}	39

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

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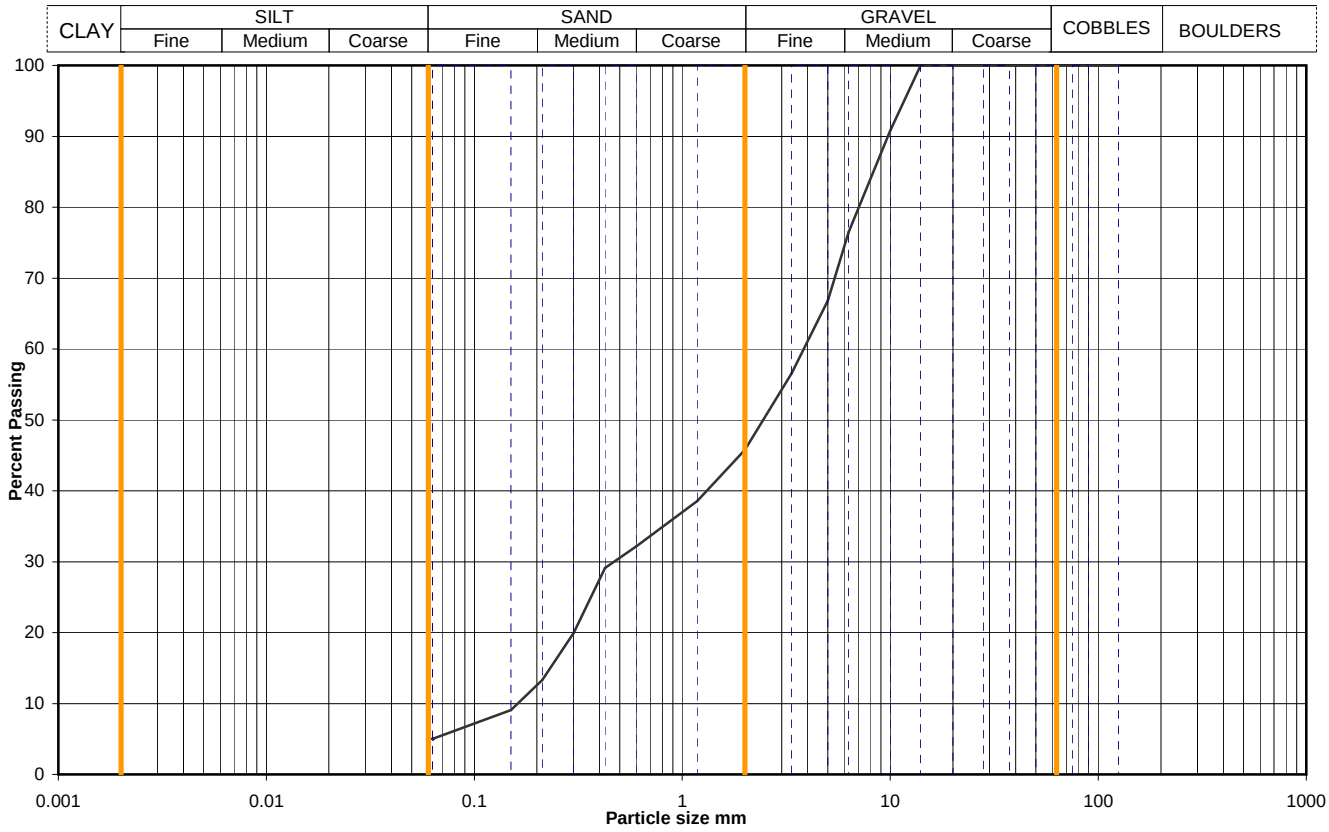
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	3.40		
			Samp No	18	Type	X
			ID	MASTER3265		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	91		
6.3	76		
5.0	67		
3.35	57		
2.00	46		
1.18	39		
0.600	32		
0.425	29		
0.300	20	Dry mass of sample, kg	
0.212	13		
0.150	9	0.7	
0.063	5		

Soil description	Grey sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	54	54
	Sand	41	41
	Silt	silt+clay =	
	Clay	5	5

Uniformity Coefficient	D_{60} / D_{10}	24

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	none

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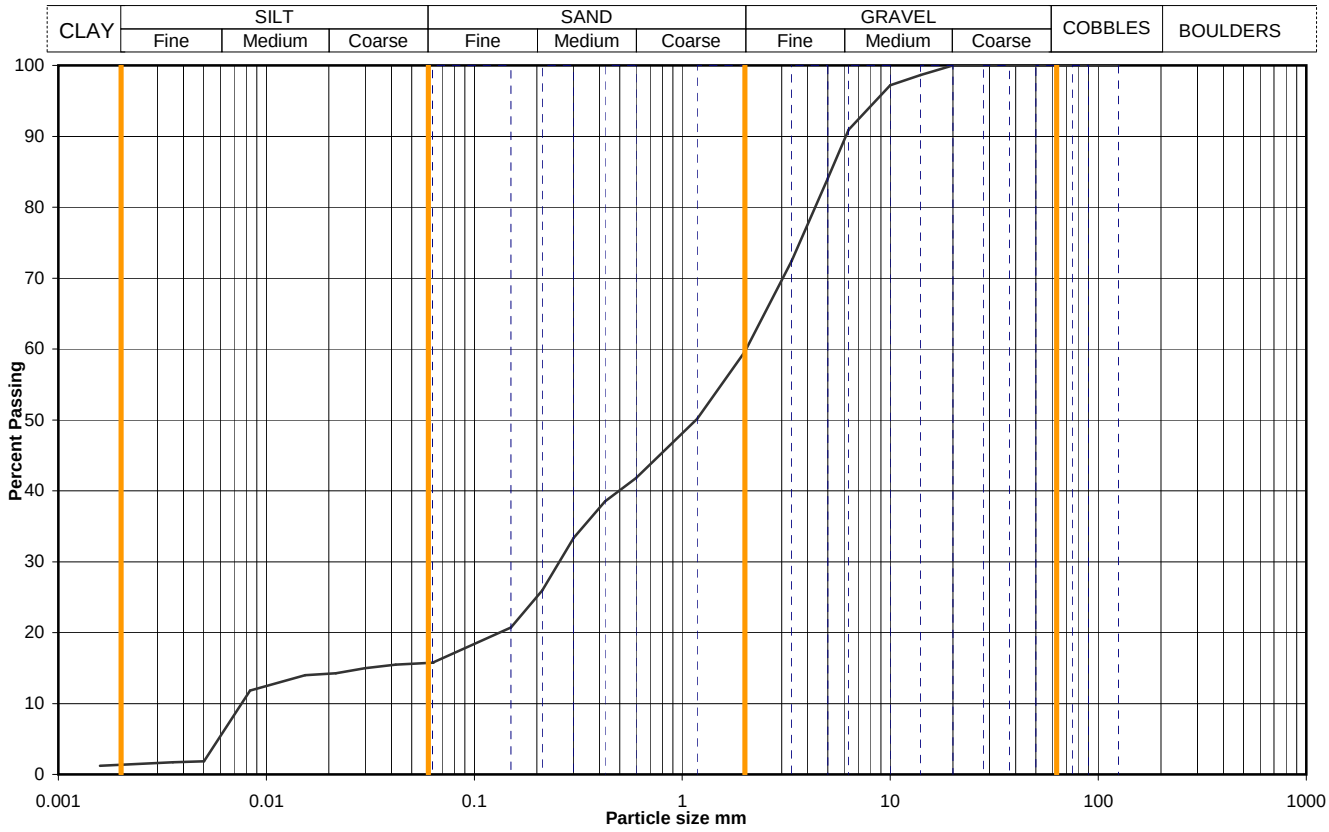
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	6.00		
			Samp No	27	Type	X
			ID	MASTER3268		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	16
90	100	0.0418	15
75	100	0.0299	15
63	100	0.0216	14
50	100	0.0154	14
37.5	100	0.0083	12
28	100	0.0050	2
20	100	0.0036	2
14	99	0.0016	1
10	97		
6.3	91		
5.0	84		
3.35	72		
2.00	60		
1.18	50	Particle density, Mg/m3	
0.600	42		
0.425	39	2.65 assumed	
0.300	33	Dry mass of sample, kg	
0.212	26		
0.150	21	0.3	
0.063	16		

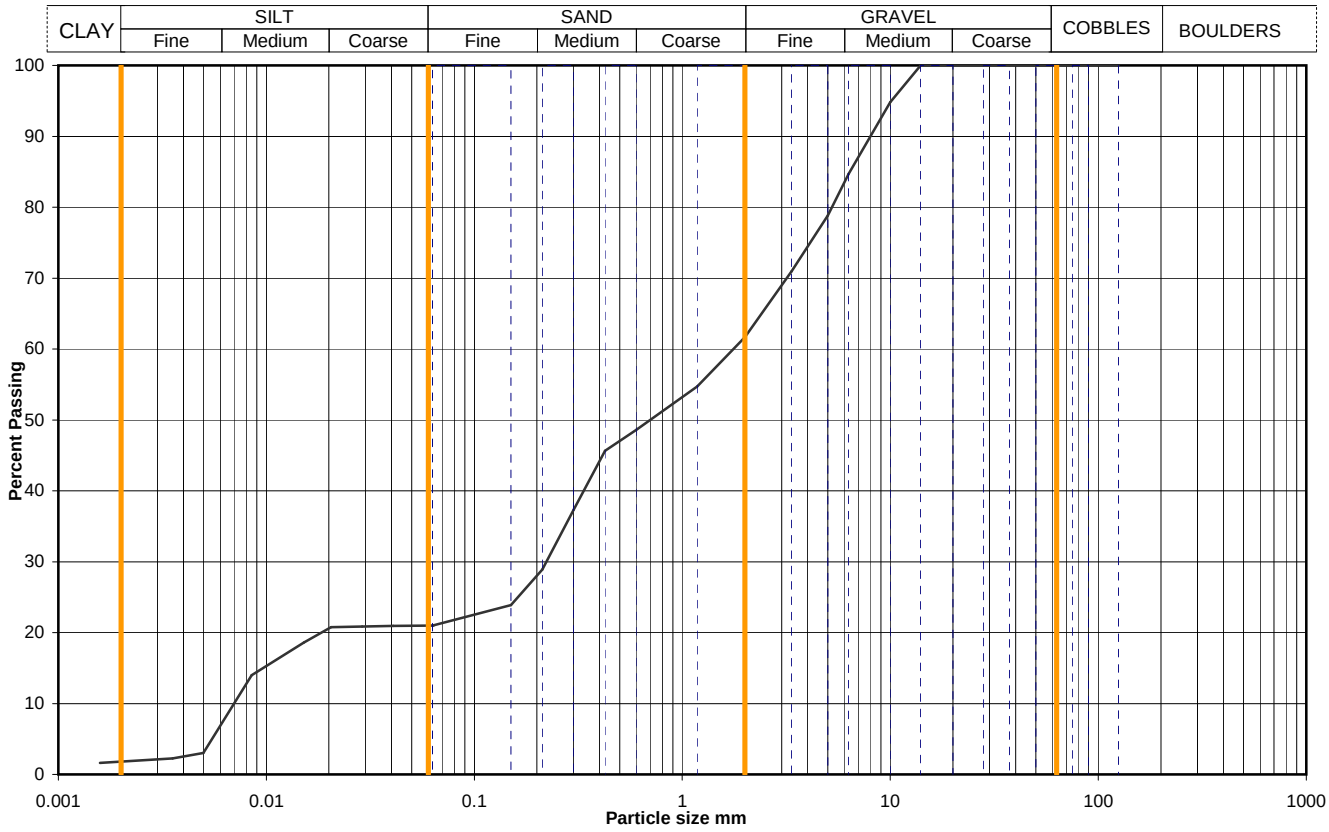
Soil description	Brown very gravelly silty SAND.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	40	40
	Sand	44	44
	Silt	15	15
	Clay	1	1

Uniformity Coefficient	D_{60} / D_{10}	267

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	9.00		
			Samp No	36	Type	X
			ID	MASTER3271		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	21
90	100	0.0407	21
75	100	0.0289	21
63	100	0.0204	21
50	100	0.0151	19
37.5	100	0.0085	14
28	100	0.0050	3
20	100	0.0035	2
14	100	0.0016	2
10	95		
6.3	85		
5.0	79		
3.35	71		
2.00	62		
1.18	55	Particle density, Mg/m3	
0.600	49		
0.425	46	2.65 assumed	
0.300	37	Dry mass of sample, kg	
0.212	29		
0.150	24	5.0	
0.063	21		

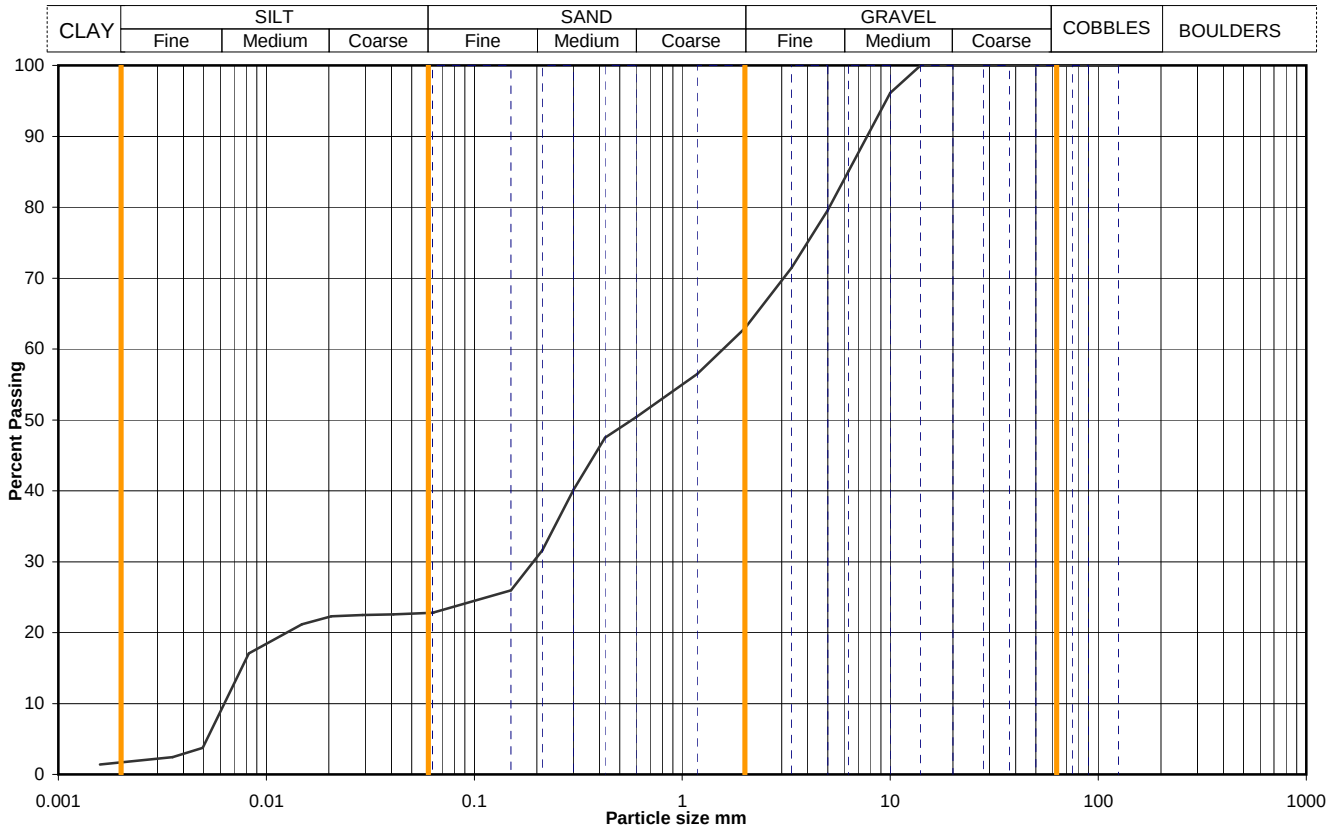
Soil description	Light brown and cream sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	38	38
	Sand	41	41
	Silt	19	19
	Clay	2	2

Uniformity Coefficient	D_{60} / D_{10}	252

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS202		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	10.00		
			Samp No	40	Type	X
			ID	MASTER3272		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	23
90	100	0.0408	23
75	100	0.0289	23
63	100	0.0205	22
50	100	0.0148	21
37.5	100	0.0082	17
28	100	0.0049	4
20	100	0.0035	2
14	100	0.0016	1
10	96		
6.3	85		
5.0	80		
3.35	71		
2.00	63		
1.18	56	Particle density, Mg/m3	
0.600	50		
0.425	48	2.65 assumed	
0.300	40	Dry mass of sample, kg	
0.212	32		
0.150	26	2.3	
0.063	23		

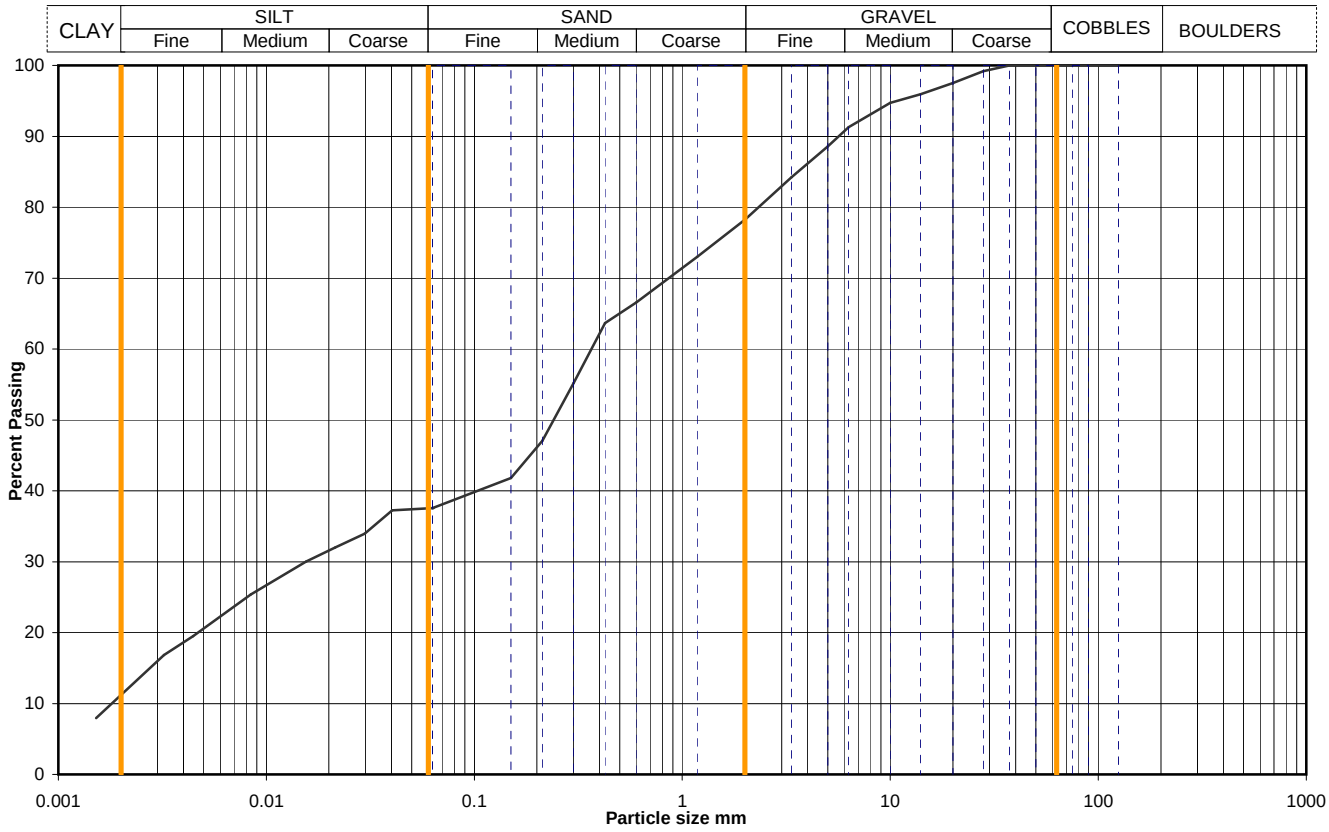
Soil description	Brown sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	37	37
	Sand	40	40
	Silt	21	21
	Clay	2	2

Uniformity Coefficient	D_{60} / D_{10}	251

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS203		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.00		
			Samp No	5	Type	B
			ID	MASTER3274		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	38
90	100	0.0403	37
75	100	0.0297	34
63	100	0.0215	32
50	100	0.0155	30
37.5	100	0.0084	25
28	99	0.0044	20
20	98	0.0032	17
14	96	0.0015	8
10	95		
6.3	91		
5.0	89		
3.35	84		
2.00	78		
1.18	73	Particle density, Mg/m3	
0.600	67		
0.425	64	2.65 assumed	
0.300	55	Dry mass of sample, kg	
0.212	47		
0.150	42	4.5	
0.063	38		

Soil description	Brown slightly gravelly sandy CLAY.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	22	22
	Sand	41	41
	Silt	26	26
	Clay	11	11

Uniformity Coefficient	D_{60} / D_{10}	202

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

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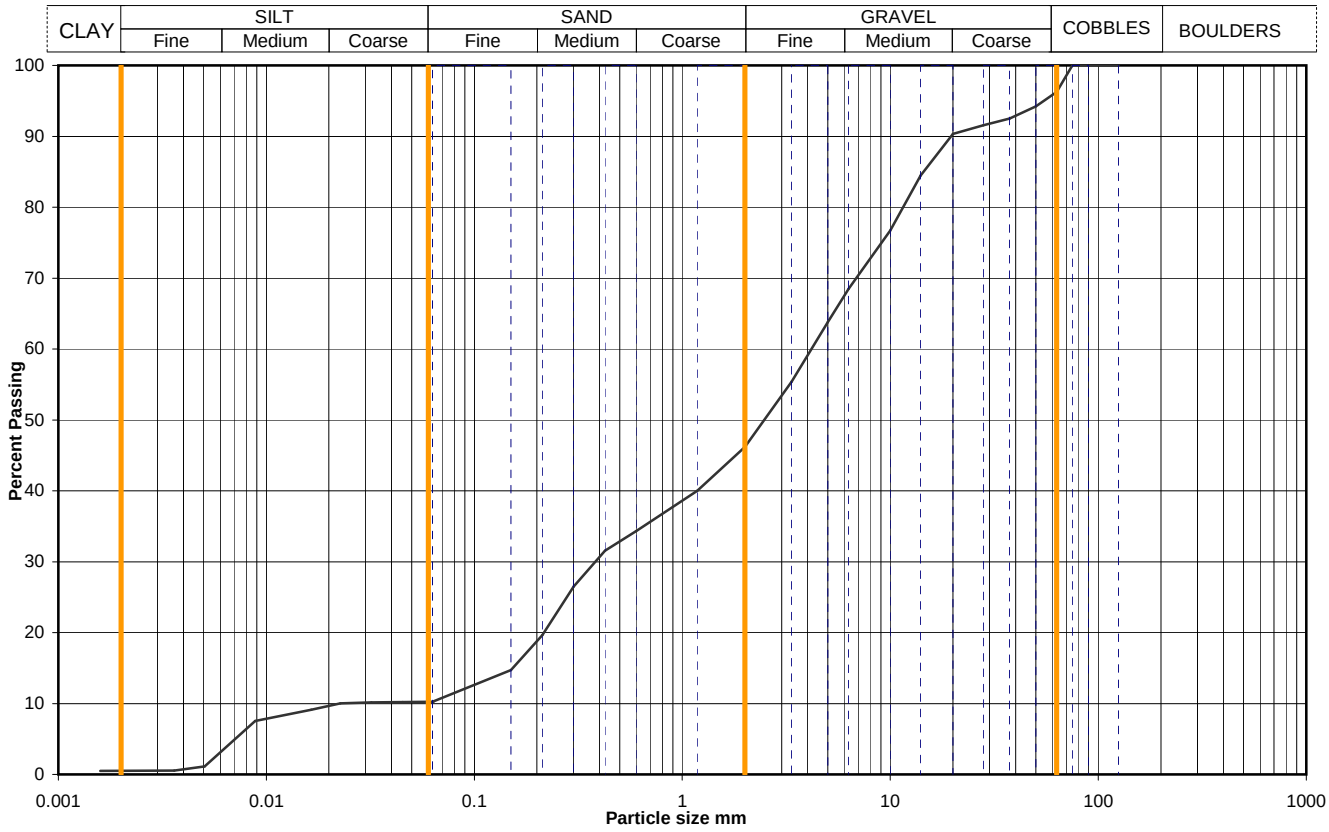
Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS203		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.20		
			Samp No	8	Type	X
			ID	MASTER3276		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	10
90	100	0.0452	10
75	100	0.0320	10
63	96	0.0227	10
50	94	0.0164	9
37.5	93	0.0088	8
28	92	0.0051	1
20	90	0.0036	1
14	84	0.0016	1
10	77		
6.3	68		
5.0	64		
3.35	55		
2.00	46		
1.18	40	Particle density, Mg/m3	
0.600	34		
0.425	32	2.65 assumed	
0.300	26	Dry mass of sample, kg	
0.212	20		
0.150	15	4.6	
0.063	10		

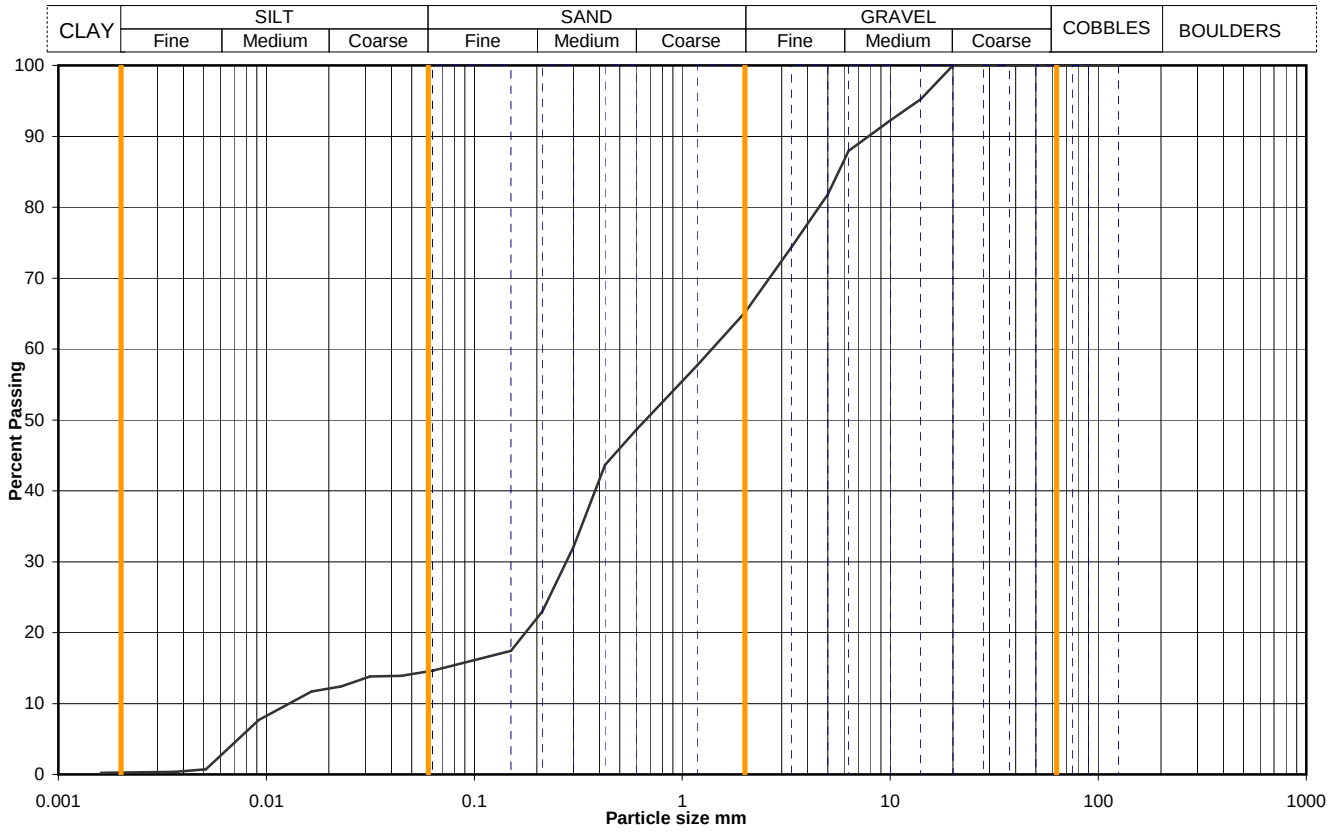
Soil description	Light brown sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	4	0
	Gravel	50	52
	Sand	36	38
	Silt	10	10
	Clay	0	0

Uniformity Coefficient	D_{60} / D_{10}	185

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS203		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	2.00		
			Samp No	12	Type	X
			ID	MASTER3278		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	15
90	100	0.0445	14
75	100	0.0315	14
63	100	0.0230	12
50	100	0.0165	12
37.5	100	0.0092	8
28	100	0.0051	1
20	100	0.0036	0
14	95	0.0016	0
10	92		
6.3	88		
5.0	82		
3.35	74		
2.00	65		
1.18	58	Particle density, Mg/m3	
0.600	49		
0.425	44	2.65 assumed	
0.300	32	Dry mass of sample, kg	
0.212	23		
0.150	17	0.8	
0.063	15		

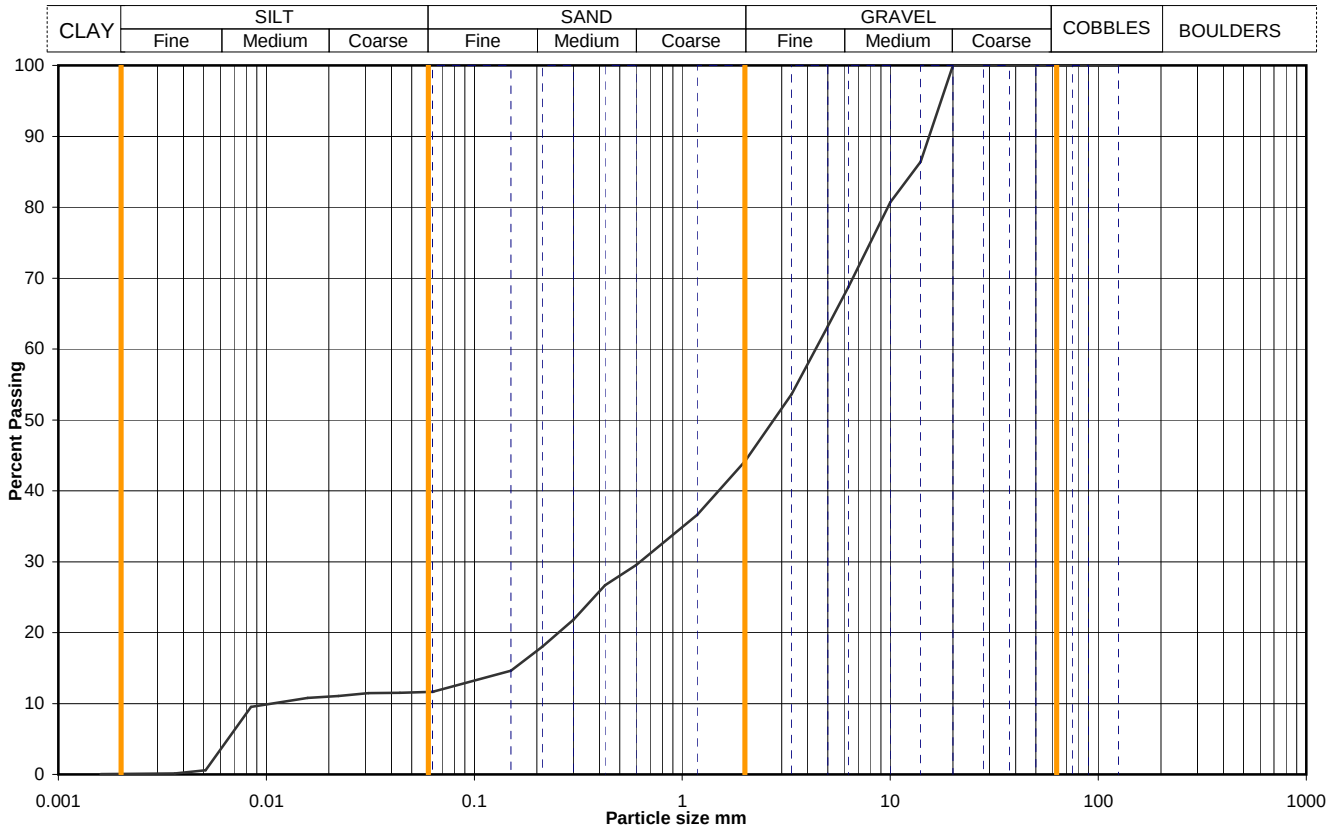
Soil description	Brown very gravelly silty SAND.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	35	35
	Sand	51	51
	Silt	14	14
	Clay	0	0

Uniformity Coefficient	D_{60} / D_{10}	108

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS204		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.00		
			Samp No	5	Type	B
			ID	MASTER3204		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	12
90	100	0.0438	12
75	100	0.0310	11
63	100	0.0222	11
50	100	0.0158	11
37.5	100	0.0084	10
28	100	0.0051	1
20	100	0.0036	0
14	86	0.0016	0
10	81		
6.3	69		
5.0	63		
3.35	54		
2.00	44		
1.18	37	Particle density, Mg/m3	
0.600	30		
0.425	27	2.65 assumed	
0.300	22	Dry mass of sample, kg	
0.212	18		
0.150	15	6.3	
0.063	12		

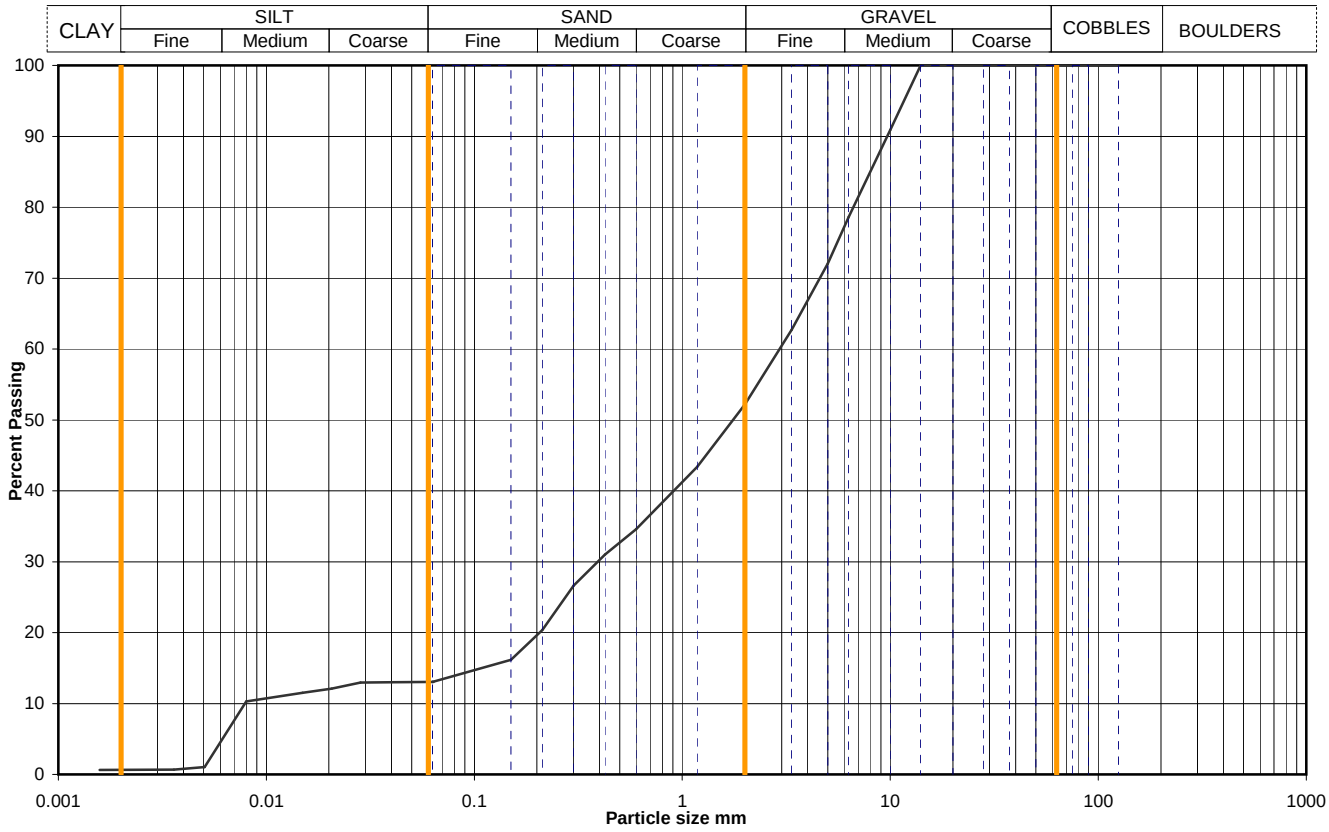
Soil description	Brown very sandy silty GRAVEL.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	56	56
	Sand	33	33
	Silt	11	11
	Clay	0	0

Uniformity Coefficient	D_{60} / D_{10}	406

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS204		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	2.00		
			Samp No	12	Type	X
			ID	MASTER3206		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	13
90	100	0.0400	13
75	100	0.0283	13
63	100	0.0206	12
50	100	0.0149	11
37.5	100	0.0080	10
28	100	0.0051	1
20	100	0.0036	1
14	100	0.0016	1
10	91		
6.3	79		
5.0	72		
3.35	63		
2.00	52		
1.18	43	Particle density, Mg/m3	
0.600	35		
0.425	31	2.65 assumed	
0.300	27	Dry mass of sample, kg	
0.212	20		
0.150	16	3.4	
0.063	13		

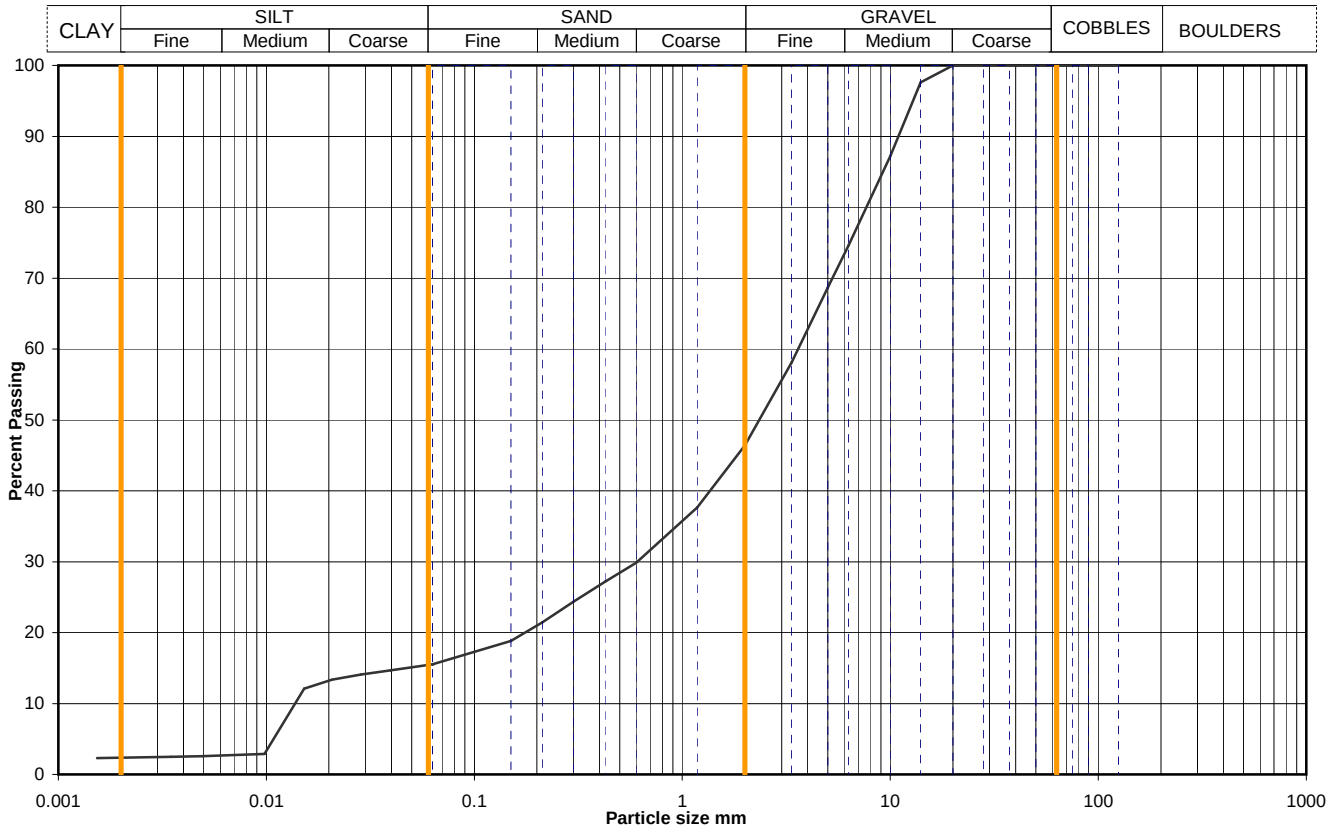
Soil description	Brownish sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	48	48
	Sand	39	39
	Silt	12	12
	Clay	1	1

Uniformity Coefficient	D_{60} / D_{10}	372

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS204		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	4.00		
			Samp No	22	Type	X
			ID	MASTER3209		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	16
90	100	0.0395	15
75	100	0.0285	14
63	100	0.0207	13
50	100	0.0152	12
37.5	100	0.0098	3
28	100	0.0049	3
20	100	0.0035	2
14	98	0.0015	2
10	87		
6.3	75		
5.0	69		
3.35	58		
2.00	46		
1.18	38	Particle density, Mg/m3	
0.600	30		
0.425	27	2.65 assumed	
0.300	24	Dry mass of sample, kg	
0.212	21		
0.150	19	0.8	
0.063	16		

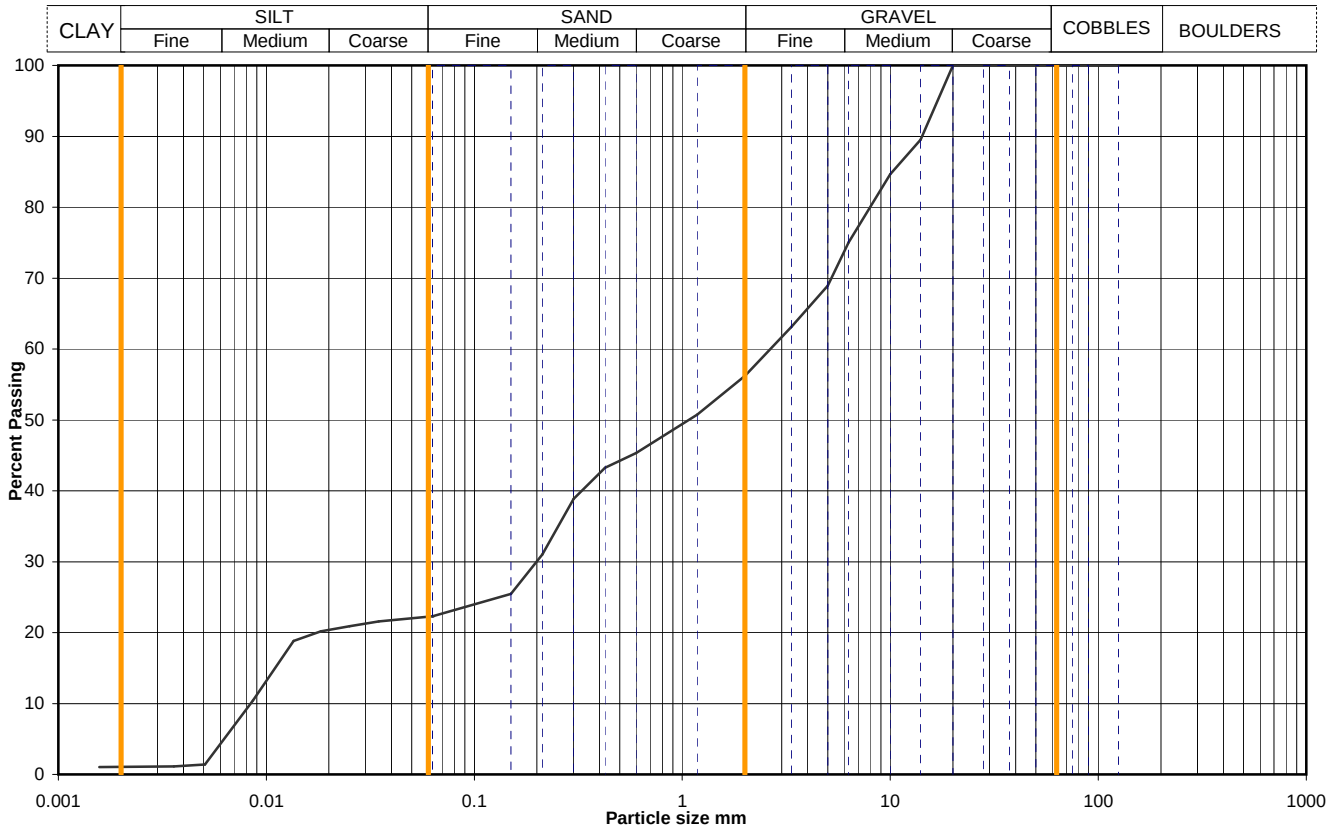
Soil description	Brown very sandy silty GRAVEL.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	54	54
	Sand	31	31
	Silt	13	13
	Clay	2	2

Uniformity Coefficient	D_{60} / D_{10}	262

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS204		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	8.00		
			Samp No	36	Type	X
			ID	MASTER3213		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	22
90	100	0.0347	22
75	100	0.0252	21
63	100	0.0183	20
50	100	0.0135	19
37.5	100	0.0086	10
28	100	0.0051	1
20	100	0.0036	1
14	90	0.0016	1
10	85		
6.3	75		
5.0	69		
3.35	63		
2.00	56		
1.18	51	Particle density, Mg/m3	
0.600	45		
0.425	43	2.65 assumed	
0.300	39	Dry mass of sample, kg	
0.212	31		
0.150	25	0.9	
0.063	22		

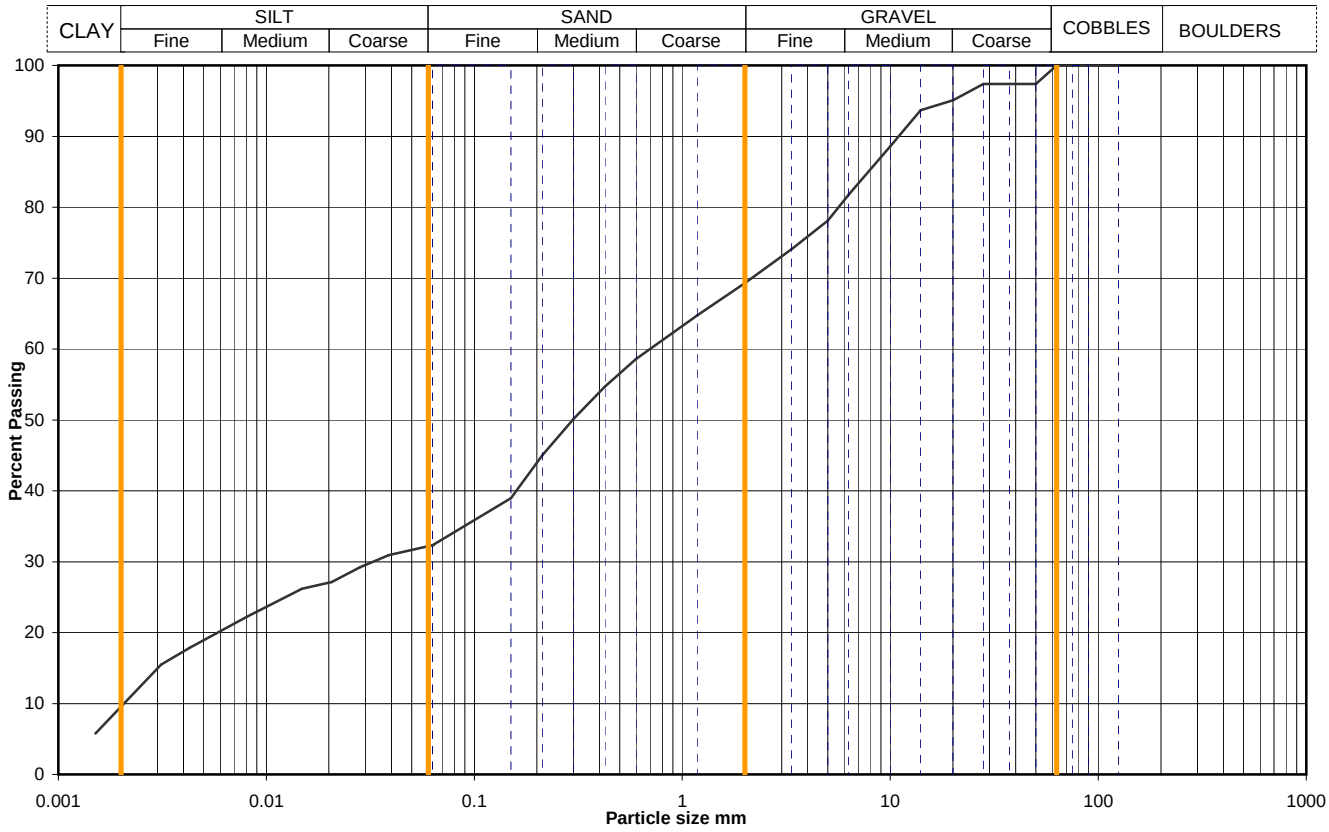
Soil description	Grey slightly sandy gravelly SILT.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	44	44
	Sand	34	34
	Silt	21	21
	Clay	1	1

Uniformity Coefficient	D_{60} / D_{10}	315

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

Particle Size Distribution Analysis

Project No	N5110-15	Sample Details:	Hole No	WS301		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.00		
			Samp No	5	Type	B
			ID	MASTER3214		
			Spec Ref			



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	32
90	100	0.0387	31
75	100	0.0282	29
63	100	0.0206	27
50	97	0.0148	26
37.5	97	0.0081	22
28	97	0.0043	18
20	95	0.0031	15
14	94	0.0015	6
10	89		
6.3	82		
5.0	78		
3.35	74		
2.00	69		
1.18	65	Particle density, Mg/m3	
0.600	59		
0.425	55	2.65 assumed	
0.300	50	Dry mass of sample, kg	
0.212	45		
0.150	39	6.8	
0.063	32		

Soil description	Grey very gravelly very silty SAND.		
Preparation / Pretreatment	Sieve: natural material Hydro: as BS1377		
Remarks			
Sample Proportions *<60mm values to aid description only		Whole	*<63mm
	Cobbles / boulders	0	0
	Gravel	31	31
	Sand	37	37
	Silt	23	23
	Clay	9	9

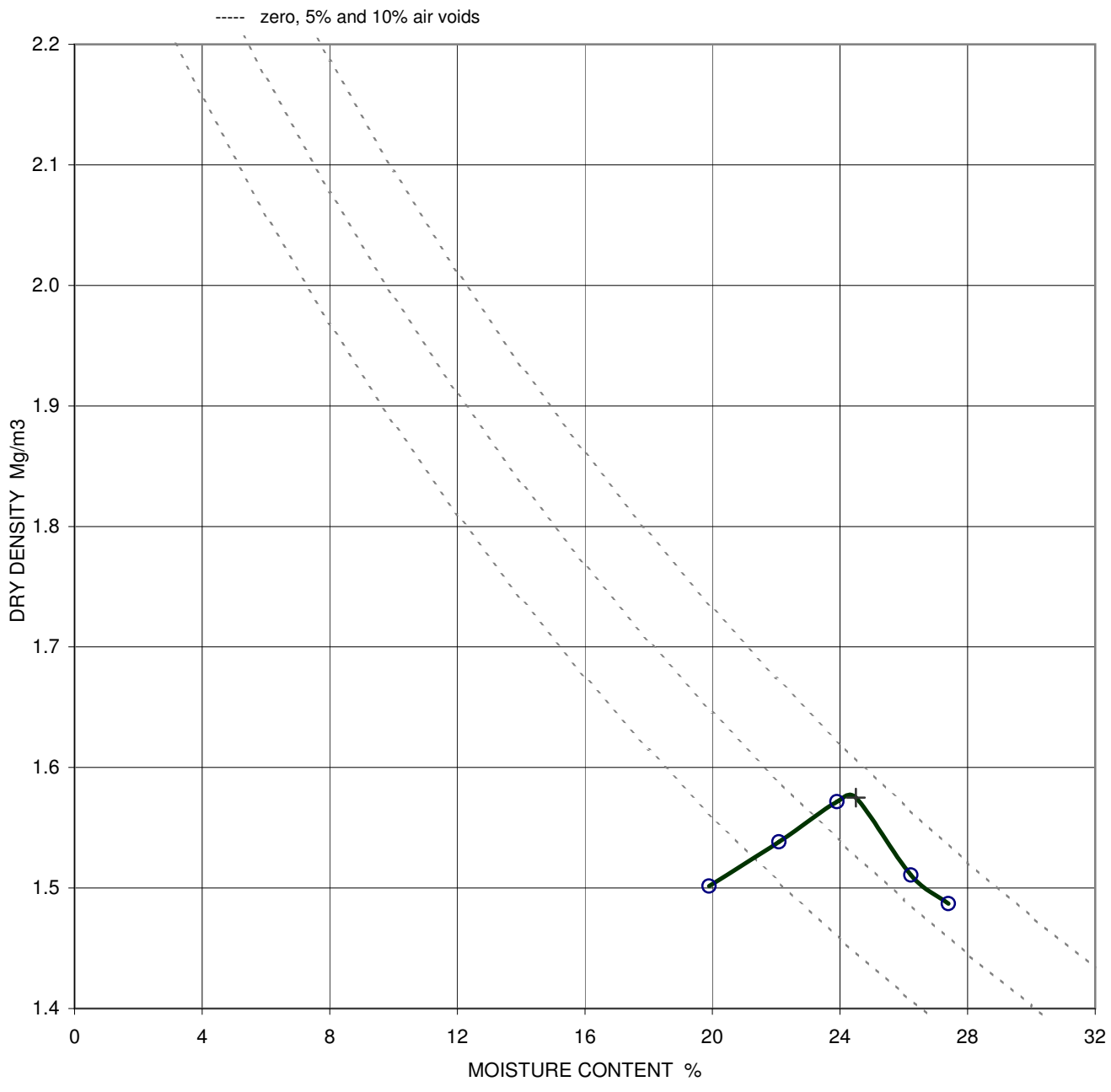
Uniformity Coefficient	D_{60} / D_{10}	337

Test Method	BS 1377 : Part 2 : 1990	
	Sieving	9.2 wet sieve
	Sedimentation	9.5 hydrometer

QA Ref SLR 2,9 Rev 88 Aug 11	ESG Environmental Scientifics Group	UKAS TESTING 1157	Printed:07/09/2015 12:38	**Figure** **PSD**

DRY DENSITY / MOISTURE CONTENT RELATIONSHIP
BS1377 : PART 4 : 1990 : LIGHT COMPACTION, 2.5 kg rammer

Project No	N5110-15	Sample Details:	Hole No	TP302		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	1.50		
			Samp No	7	Type	B
			ID	MASTER3249		
			Spec Ref			



Soil description	Grey very sandy silty GRAVEL.		
Test method	BS 1377:part 4:1990: clause 3.4, 2.5 kg rammer in a CBR mould		
Preparation	Original material was natural, single sample tested		
Material > 37.5mm	6	%	
Material < 37.5mm > 20mm	6	%	
Particle density, Mg/m^3	2.65	assumed	
Remarks			

Derived Parameters +

Maximum dry density, Mg/m3

1.58

Optimum moisture content, %

25

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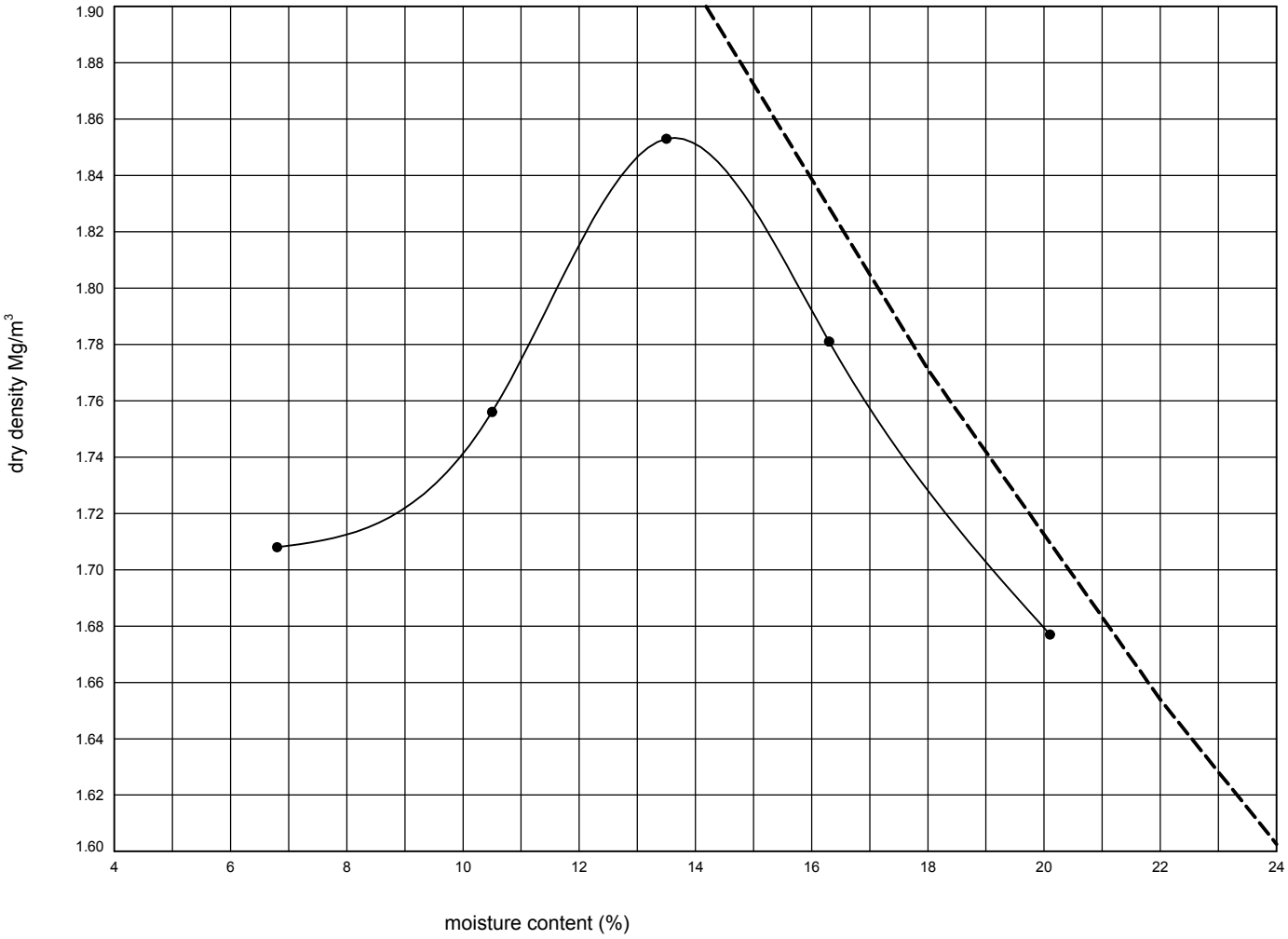
DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

BS.1377 : Part 4 : 1990 : 3

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	TP701
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	8B
		SAMPLE DEPTH (m)	1.50
DESCRIPTION	Brown slightly sandy slightly gravelly SILT with medium cobble content	SPECIMEN DEPTH (m)	1.50



test method		3.4.4.1 2.5kg dynamic compaction - CBR mould			
preparation procedure		3.2.5.1 (grading zone 3)			
sample preparation		C,R			
proportion retained on 37.5mm sieve	(%)	0	initial moisture content	(%)	17
proportion retained on 20mm sieve	(%)	5.32	maximum dry density	(Mg/m^3)	1.85
particle density	(Mg/m^3)	#2.60	optimum moisture content	(%)	14

remarks:

– – – – – represents 0% air voids curve

# denotes particle density has been assigned an assumed value
C denotes sample has been chopped to pass 20mm sieve
S denotes sample has been shredded to pass 20mm sieve
R denotes sample material has been recycled between/for points
Sample combined with 9D @1.5m

CONTRACT	CHECKED
30766	**SR**

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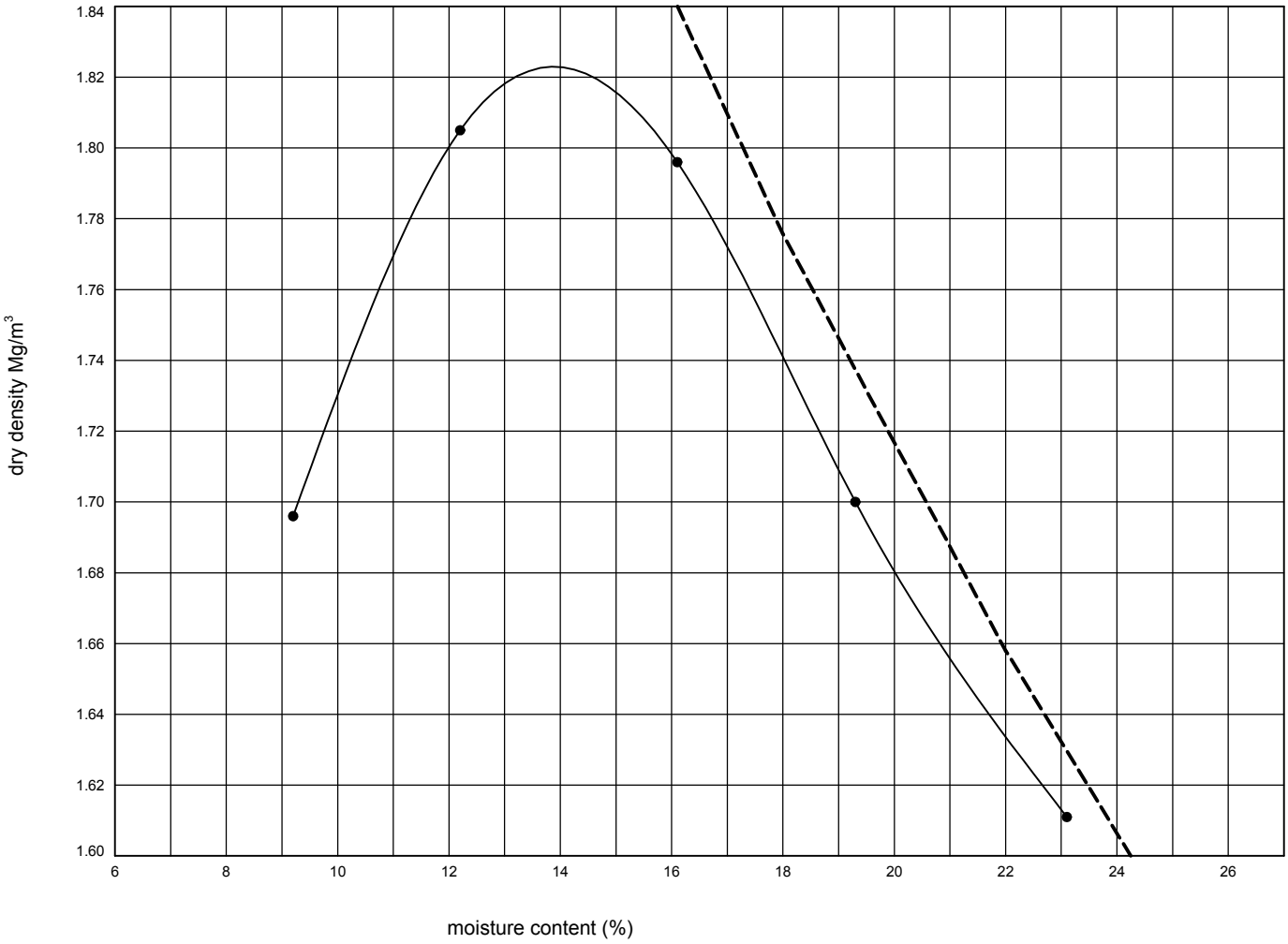
DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

BS.1377 : Part 4 : 1990 : 3

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	TP702
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	13B
		SAMPLE DEPTH (m)	2.50
DESCRIPTION	Brown slightly gravelly sandy silty CLAY	SPECIMEN DEPTH (m)	2.50



test method		3.3.4.1 2.5kg dynamic compaction - 1L mould			
preparation procedure		3.2.4.1 (grading zone 1)			
sample preparation		C,R			
proportion retained on 37.5mm sieve	(%)	0	initial moisture content	(%)	18
proportion retained on 20mm sieve	(%)	0	maximum dry density	(Mg/m^3)	1.82
particle density	(Mg/m^3)	#2.61	optimum moisture content	(%)	14

remarks:

– – – – – represents 0% air voids curve

# denotes particle density has been assigned
an assumed value
C denotes sample has been chopped to pass 20mm sieve
S denotes sample has been shredded to pass 20mm sieve
R denotes sample material has been recycled between/for points

CONTRACT	CHECKED
30766	**SR**

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Geotechnical Engineering Limited

CONSOLIDATION TEST

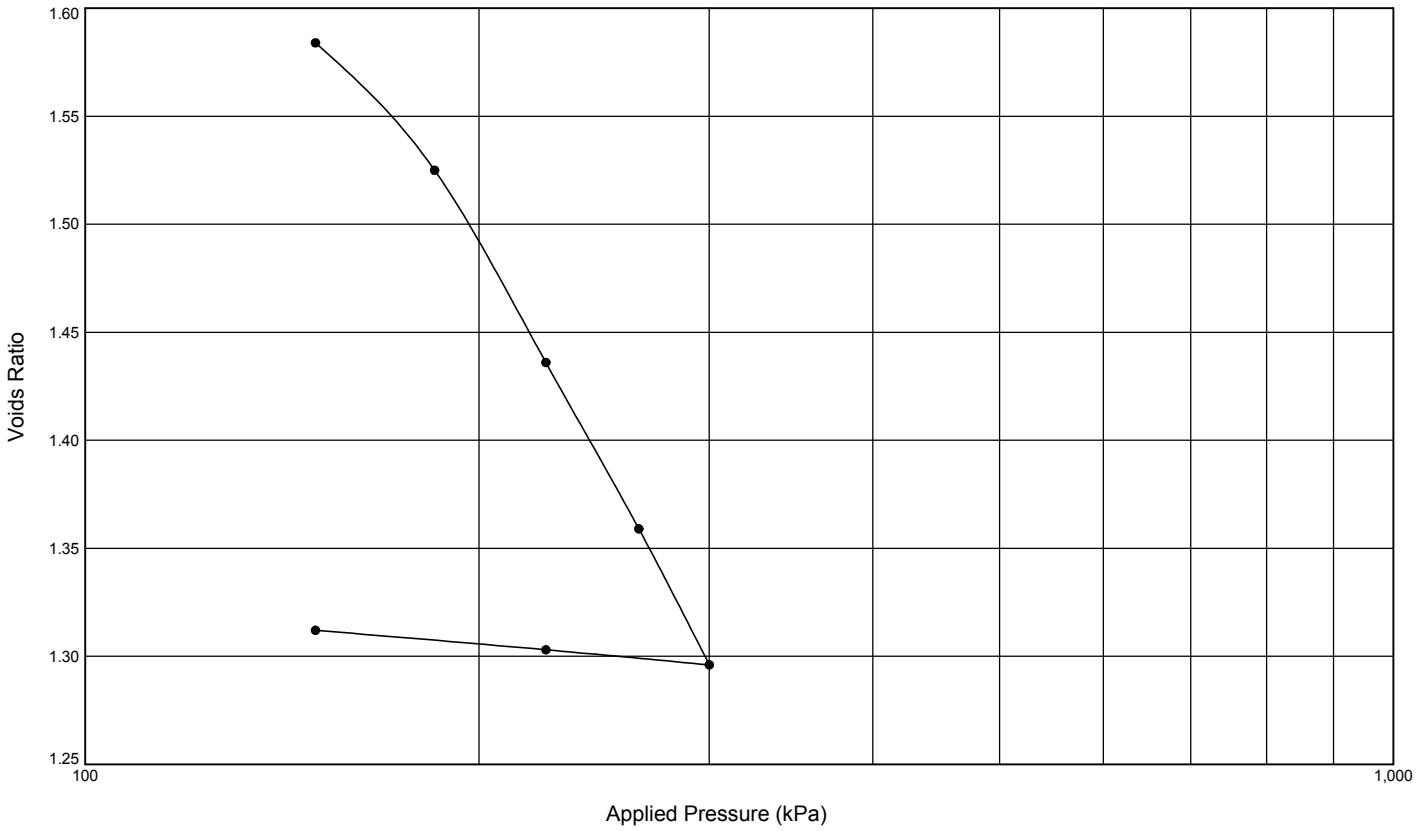
BS.1377 : Part 5 : 1990 : 3

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Brownish grey slightly sandy organic CLAY

BH/TP No.	BH101
SAMPLE No./TYPE	32UT
SAMPLE DEPTH (m)	7.20
SPECIMEN DEPTH (m)	7.35



Test and sample details		
specimen diameter	(mm)	63.32
specimen height	(mm)	18.83
initial moisture content	(%)	86.4
final moisture content	(%)	52.0
initial bulk density	(Mg/m^3)	1.46
initial dry density	(Mg/m^3)	0.78
initial voids ratio		2.444
initial degree of saturation	(%)	95
particle density	(Mg/m^3)	#2.70
swelling pressure	(kPa)	N/A
P'o to P'o +100 kPa	(kPa)	-
laboratory temperature	(°C)	21
method of time fitting		root time

Test results

pressure stage (kPa)	voids ratio	laboratory coefficients of compressibility (m^2/MN)	laboratory coefficients of consolidation (m^2/year)
150	1.584	1.665	0.52
185	1.525	0.655	0.03
225	1.436	0.880	0.06
265	1.359	0.789	0.10
300	1.296	0.764	0.01
225	1.303	0.042	
150	1.312	0.050	

remarks: # denotes particle density has been assigned an assumed value.

CONTRACT	CHECKED
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Geotechnical Engineering Limited

CONSOLIDATION TEST

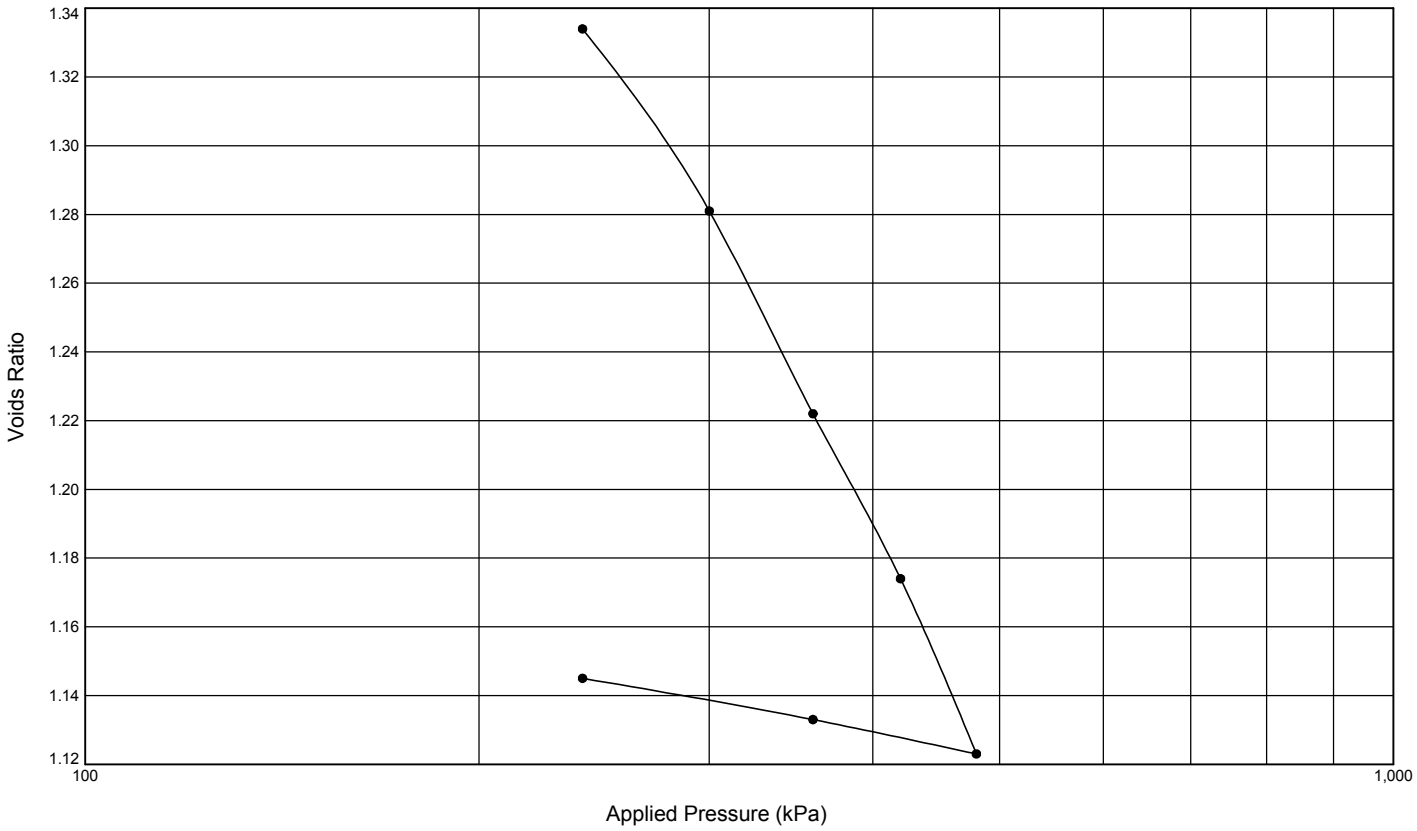
BS.1377 : Part 5 : 1990 : 3

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

DESCRIPTION Greyish brown slighty sandy organic CLAY

BH/TP No.	BH101
SAMPLE No./TYPE	50UT
SAMPLE DEPTH (m)	12.00
SPECIMEN DEPTH (m)	12.10



Test and sample details		
specimen diameter	(mm)	63.48
specimen height	(mm)	18.97
initial moisture content	(%)	71.8
final moisture content	(%)	45.0
initial bulk density	(Mg/m^3)	1.48
initial dry density	(Mg/m^3)	0.86
initial voids ratio		2.129
initial degree of saturation	(%)	91
particle density	(Mg/m^3)	#2.70
swelling pressure	(kPa)	N/A
P'o to P'o +100 kPa	(kPa)	-
laboratory temperature	(°C)	21
method of time fitting		root time

Test results

pressure stage (kPa)	voids ratio	laboratory coefficients of compressibility (m^2/MN)	laboratory coefficients of consolidation (m^2/year)
240	1.334	1.060	0.32
300	1.281	0.377	0.12
360	1.222	0.429	0.21
420	1.174	0.364	0.06
480	1.123	0.385	0.02
360	1.133	0.037	
240	1.145	0.046	

remarks: # denotes particle density has been assigned an assumed value.

CONTRACT	CHECKED
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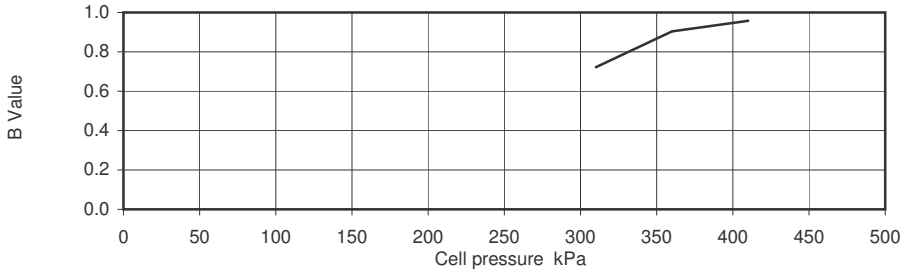
Determination of Permeability in a Triaxial Cell
(BS1377 : Part 6 : 1990, clause 6 - Constant Head test)

Project No	N5110-15	Sample Details:	Hole No.	BH204		
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	3.30-3.75		
			Sample No	13	Type	UT
			ID			
			Spec Ref			

Specimen Details

				Initial	Final	
Soil Description	Dark brown CLAY.					
Specimen Type /Preparation	RECOMPACTED using 2.5kg effort at as received moisture content		Bulk Density	1.39	1.45	Mg/m³
			Water Content	120.9	100.2	%
Length	100.4	mm	Dry density	0.63	0.72	Mg/m³
Diameter	102.7	mm	Voids ratio	3.20	2.66	
Particle density	2.65	Mg/m³ Assumed	Degree of saturation	100	100	%

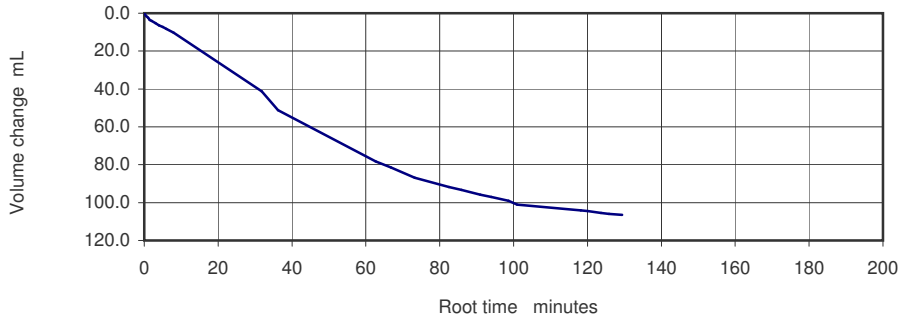
Saturation Stage



Method:
Increments of cell and back pressure

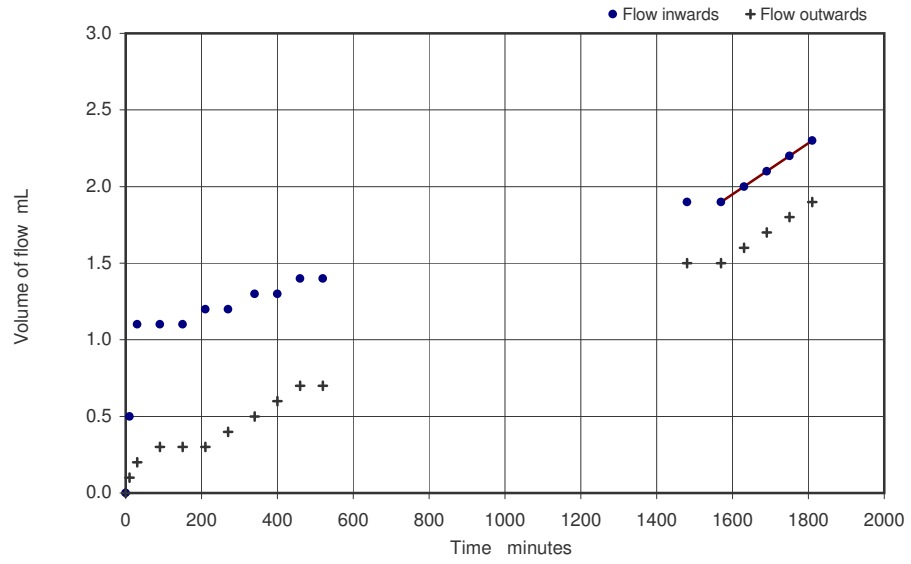
Cell pressure increments	50	kPa
Differential Pressure	10	kPa
Final Cell Pressure	410	kPa
Final pore water pressure	396	kPa
Final B Value	0.96	

Consolidation Stage



Drainage Condition	to one end only	
Cell pressure applied	420	kPa
Back pressure applied	350	kPa
Effective stress	70	kPa

Permeability Stage



Cell Pressure	425	kPa
Top Pressure	350	kPa
Base Pressure	360	kPa
Mean Effective Stress	70	kPa
Differential Pressure	10	kPa
Hydraulic gradient	10	
Mean rate of flow	0.00167	ml/min
Temperature during test	24.2	°C

PERMEABILITY, *kv*

(at 20°C) **3.0×10^{-10} m/s**

Notes

Ref SLR6.6 Rev 1 Aug 11	ESG	Printed:26/09/2015 10:51	**Figure** **TXLP** sheet 1 of 1

BS1377 : Part 6 : Clause 6 :1990

Determination of Permeability in a Triaxial Cell

Borehole:	BH204
Sample No:	21
Depth:	5.20 - 5.65

Description:
Soft to firm grey CLAY with rare fine sand and some patches of black organic rich clay.

SPECIMEN DETAILS

Depth within original sample	30mm from top
Orientation within original	Vertical
Specimen preparation	Undisturbed

TEST DETAILS

Cell Preparation: Performed in accordance with Clause 3.5

		INITIAL	FINAL
Diameter	*mm*	100.9	96.2
Height	*mm*	100.3	95.9
Moisture Content	*%*	65	50
Bulk Density	*Mg/m³*	1.60	1.68
Dry Density	*Mg/m³*	0.97	1.12

SATURATION STAGE

Saturation initially by constant moisture content, followed by back-pressure assistance using 5-10 kPa differential

'B' value	0.98	0.99

CONSOLIDATION STAGE

Effective pressure	*kPa*	110
Volume change	*mL*	104.9

PERMEABILITY STAGE

Pressure difference across specimen		20
Hydraulic gradient		21.3
Mean effective stress	*kPa*	100

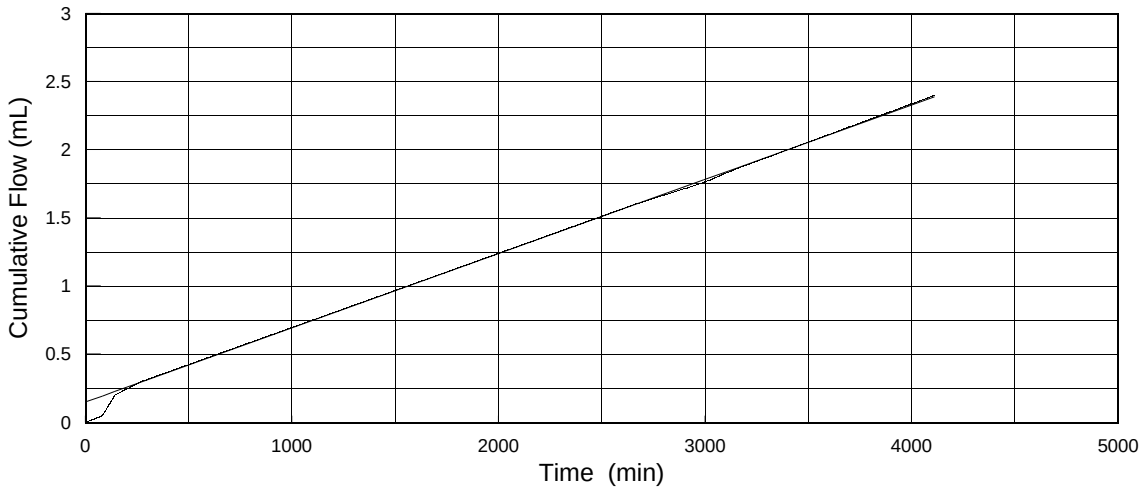
TEST DURATIONS

Saturation	*days*	2
Consolidation	*days*	4
Flow	*days*	2

RESULT

Coefficient of Permeability

kv at 20°C = 5.9 x 10^{-11} m/s



Checked and Approved Initials: RJP Date: 17/08/15	Project Number: **GEO / 22927** Project Name: **LONDON PARAMOUNT ENTERTAINMENT RESORT** **Project Number 30766**	UKAS TESTING 1982 GEOLABS®

Determination of shear strength by direct shear (Small shearbox apparatus)
(BS1377 : Part 7 : clause 4 : 1990)

Project No	N5110-15	Sample Details:	Hole No.	WS102	
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	3.00 - 4.00	
			Sample No	19	Type X
			ID		
			Spec Ref		

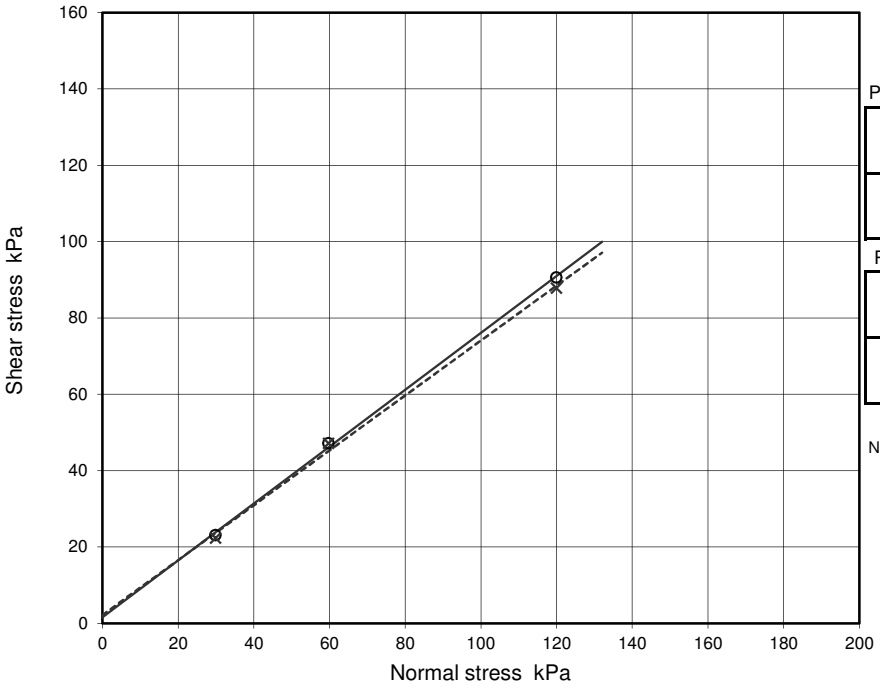
Soil Description	Light brown slightly gravelly SILT.
Specimen Type /Preparation	-2mm material. Recompacted to a medium dense state at as received moisture content.

Specimen(s) nominally 60mm x 60mm square
Test(s) carried out in submerged condition
Particle density, assumed 2.65 Mg/m^3

Specimen Details		No.	1	2	3	4	5	6
Initial	Height	mm	25.0	25.0	25.0			
	Bulk Density	Mg/m^3	1.33	1.33	1.33			
	Water Content	%	80.4	80.4	80.6			
	Dry density	Mg/m^3	0.74	0.74	0.74			
	Voids ratio		2.600	2.599	2.603			
	Degree of Saturation	%	82	82	82			
Consol^n	Consolidation / Normal Stress applied	kPa	**30**	**60**	**120**			
	Change in height during consolidation	mm	-0.242	-0.388	-0.570			
	Voids ratio after consolidation		2.565	2.543	2.520			
Shear see note 1	Voids ratio at end of test		2.521	2.439	2.377			
	Moisture content at end of test	%	91.5	88.9	86.6			
	Saturation at end of test	%	96	97	97			

Shearing stage

Rate of displacement	Peak	mm/min	0.041	0.041	0.041			
	Residual	mm/min	0.103	0.103	0.103			
Peak values, (o)	Relative displacement	mm	8.50	10.00	9.13			
	Shear stress	kPa	23.1	47.1	90.6			
Residual values, (x)	No. of reversals		2	2	2			
	Relative displacement	mm	10.00	10.00	30.00			
	Shear stress	kPa	22.3	47.1	87.8			



Shear Strength Parameters

Peak strength, (o)		Regression	Manual
c '	kPa	1.5	-
Ø '	degrees	36½	-

Residual strength, (x)

c'_R	kPa	2.2	-
$Ø'_R$	degrees	35½	-

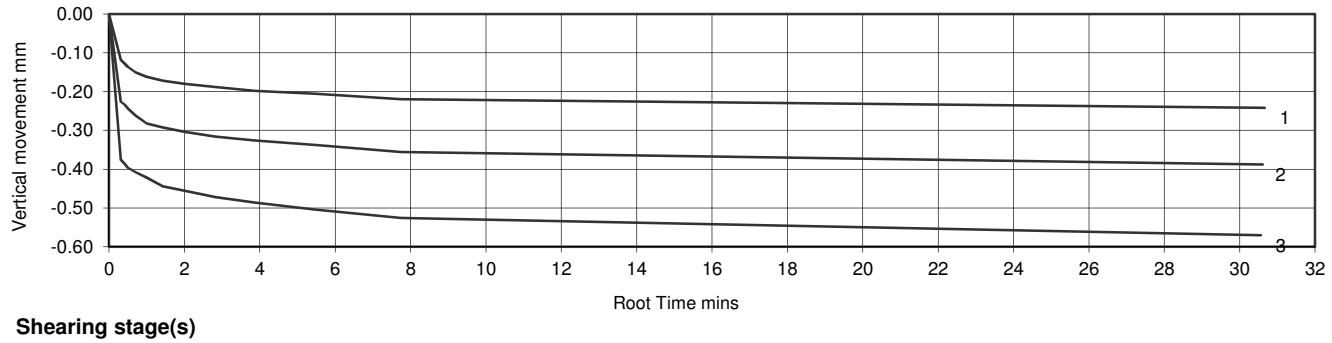
Notes :

1 After shear values based on BS1377. Pt 7 cl. 4.6.1.6 using δH calculated from consolidation and shear stages

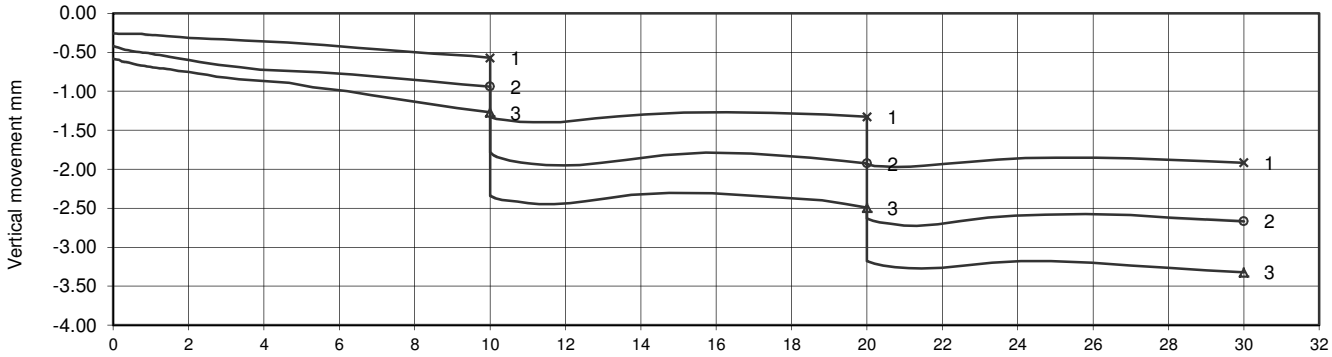
Determination of shear strength by direct shear (Small shearbox apparatus)
(BS1377 : Part 7 : clause 4 : 1990)

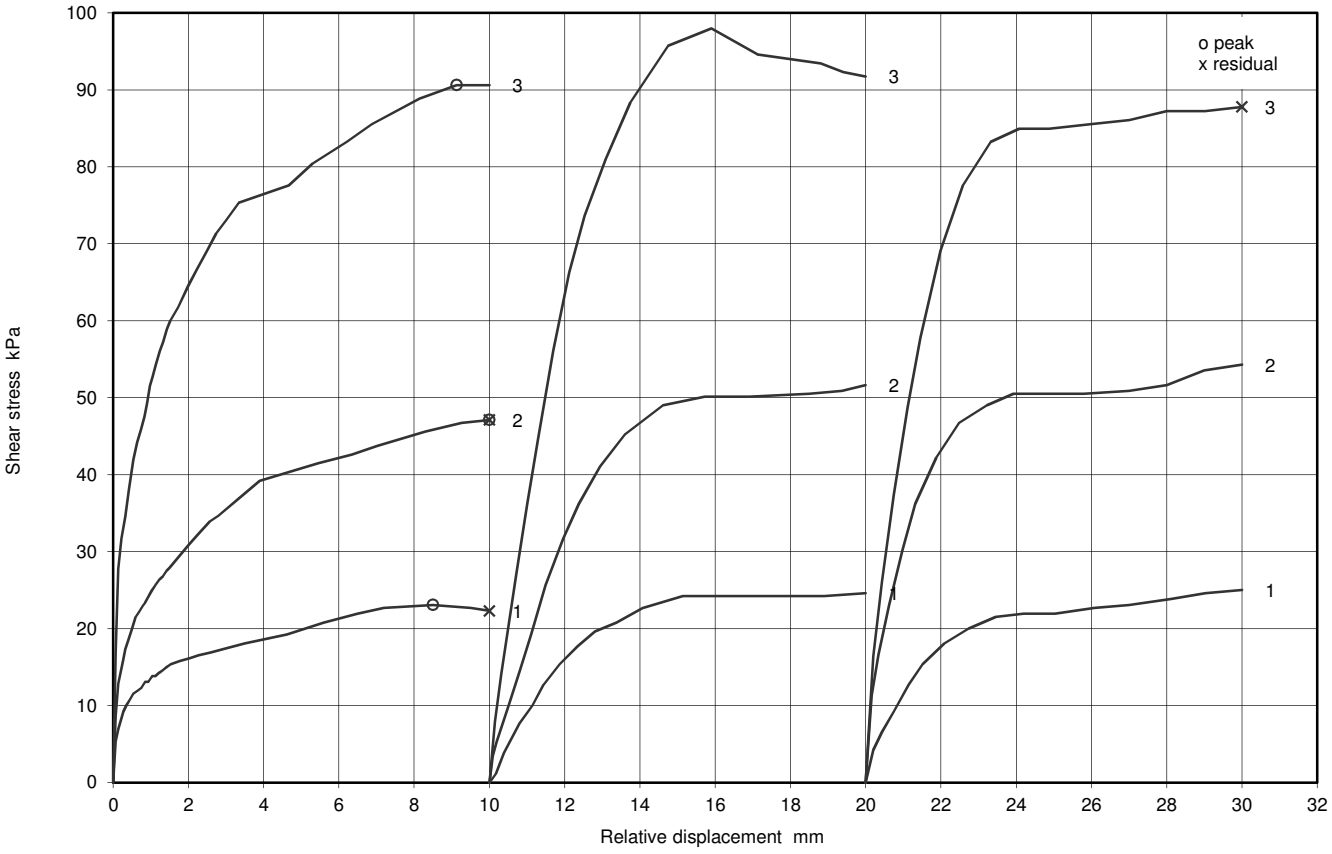
Project No	N5110-15	Sample Details:	Hole No.	WS102	
Project Name	LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	3.00 - 4.00	
			Sample No	19	Type X
			ID		
			Spec Ref		

Consolidation stage(s)



Shearing stage(s)





Ref			Figure
SLR7.4 Rev 85 Oct 10	ESG	Printed:02/09/2015 11:30	**SSB** sheet 2 of 2

Determination of shear strength by direct shear (Small shearbox apparatus)
(BS1377 : Part 7 : clause 4 : 1990)

Project No	N5110-15	Sample Details:	Hole No.	WS202		
Project Name	London Paramount Entertainment Resort		Depth (m BGL)	2.00 - 3.00		
			Sample No	12	Type	X
			ID			
			Spec Ref			

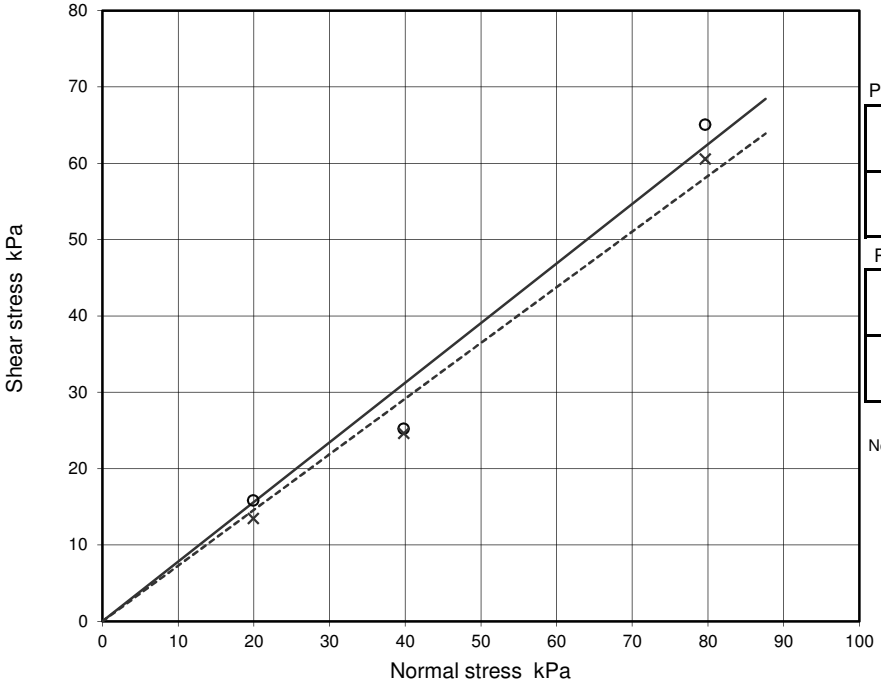
Soil Description	Light greyish brown slightly sandy slightly gravelly SILT.
Specimen Type /Preparation	-2mm material. Recompacted to a medium dense state at as received moisture content.

Specimen(s) nominally 60mm x 60mm square
Test(s) carried out in submerged condition
Particle density, assumed 2.65 Mg/m^3

Specimen Details		No.	**1**	**2**	**3**	**4**	**5**	**6**
Initial	Height	mm	25.0	25.0	25.0			
	Bulk Density	Mg/m^3	1.33	1.33	1.33			
	Water Content	%	56.5	56.6	56.6			
	Dry density	Mg/m^3	0.85	0.85	0.85			
	Voids ratio		2.120	2.122	2.122			
	Degree of Saturation	%	71	71	71			
Consol^n	Consolidation / Normal Stress applied	kPa	**20**	**40**	**80**			
	Change in height during consolidation	mm	-0.132	-0.224	-0.578			
	Voids ratio after consolidation		2.103	2.094	2.050			
Shear see note 1	Voids ratio at end of test		2.059	2.089	1.972			
	Moisture content at end of test	%	73.7	71.8	68.9			
	Saturation at end of test	%	95	91	93			

Shearing stage

Rate of displacement	Peak	mm/min	0.059	0.059	0.059			
	Residual	mm/min	0.148	0.148	0.148			
Peak values, (o)	Relative displacement	mm	1.20	3.02	3.77			
	Shear stress	kPa	15.8	25.2	65.1			
Residual values, (x)	No. of reversals		2	2	2			
	Relative displacement	mm	2.34	5.62	6.15			
	Shear stress	kPa	13.5	24.6	60.6			



Shear Strength Parameters

Peak strength, (o)		Regression	Manual
c '	kPa	(-4.1)	0.0
Ø '	degrees	(40½)	38

Residual strength, (x)

c'_R	kPa	(-4.5)	0.0
$Ø'_R$	degrees	(39)	36

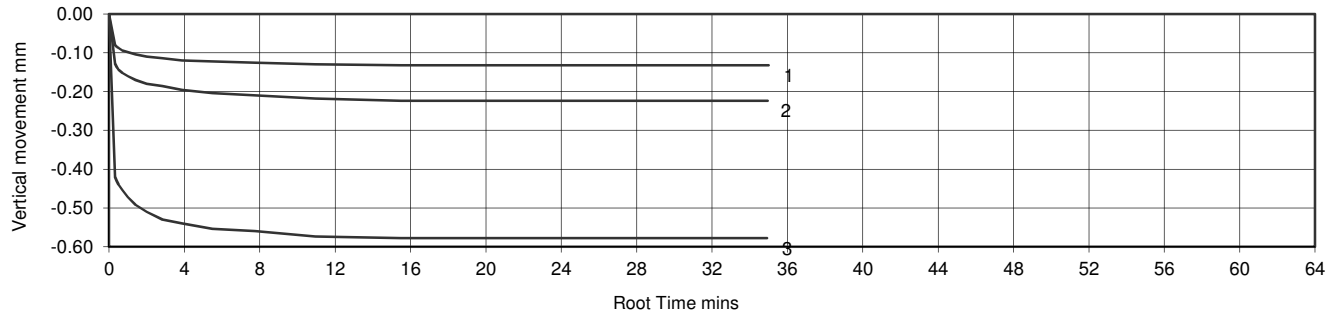
Notes :

1 After shear values based on BS1377. Pt 7 cl. 4.6.1.6 using δH calculated from consolidation and shear stages

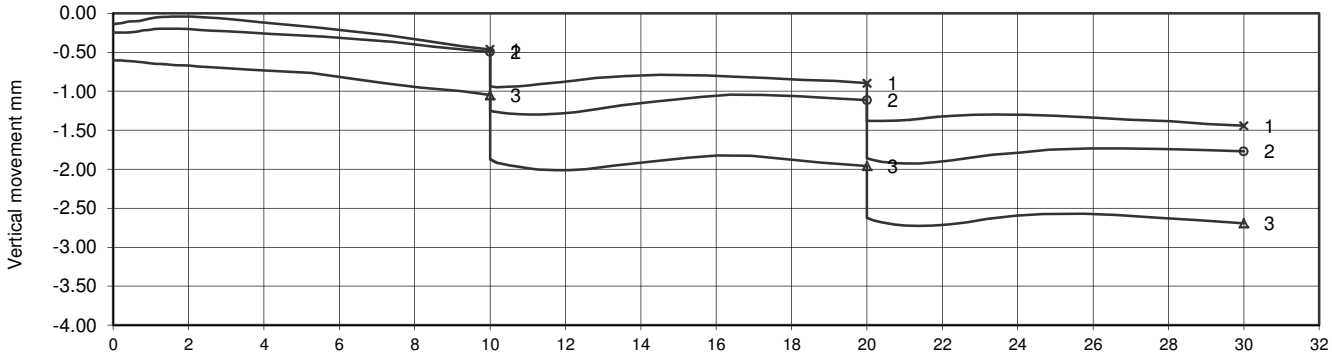
Determination of shear strength by direct shear (Small shearbox apparatus)
(BS1377 : Part 7 : clause 4 : 1990)

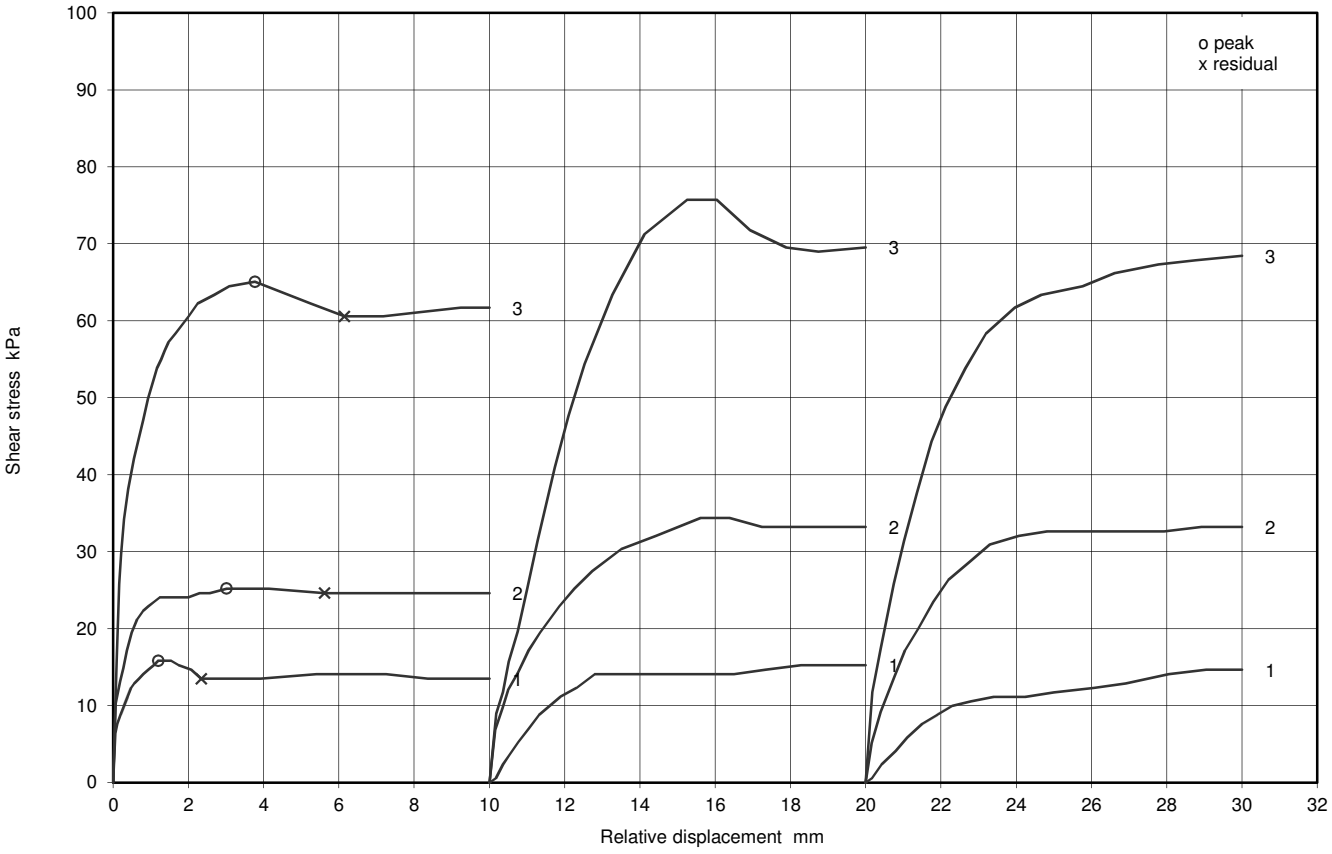
Project No	N5110-15	Sample Details:	Hole No.	WS202	
Project Name	London Paramount Entertainment Resort		Depth (m BGL)	2.00 - 3.00	
			Sample No	12	Type X
			ID		
			Spec Ref		

Consolidation stage(s)



Shearing stage(s)





Ref			Figure
SLR7.4 Rev 85 Oct 10	ESG	Printed:02/09/2015 11:33	**SSB** sheet 2 of 2

Determination of shear strength by direct shear (Small shearbox apparatus)
(BS1377 : Part 7 : clause 4 : 1990)

Project No	N5110-15	Sample Details:	Hole No.	WS202	
Project Name	London Paramount Entertainment Resort		Depth (m BGL)	9.00 - 10.00	
			Sample No	36	Type X
			ID		
			Spec Ref		

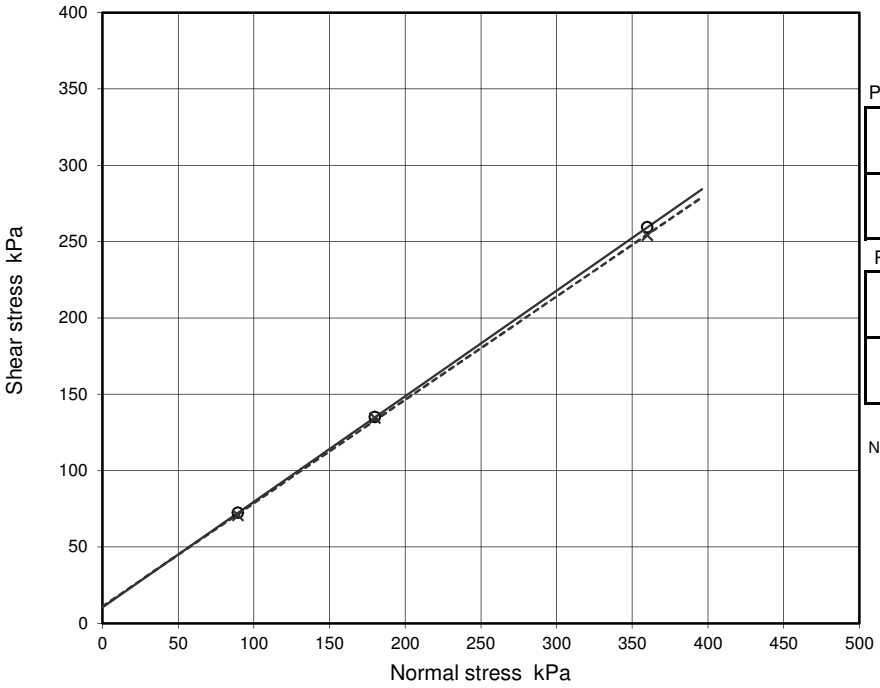
Soil Description	Light brown and cream slightly gravelly sandy SILT.
Specimen Type /Preparation	-2mm material. Recompacted to a medium dense state at as received moisture content.

Specimen(s) nominally 60mm x 60mm square
Test(s) carried out in submerged condition
Particle density, assumed 2.65 Mg/m^3

Specimen Details		No.	1	2	3	4	5	6
Initial	Height	mm	25.0	25.0	25.0			
	Bulk Density	Mg/m^3	1.24	1.24	1.24			
	Water Content	%	47.4	48.4	48.2			
	Dry density	Mg/m^3	0.84	0.83	0.84			
	Voids ratio		2.153	2.174	2.169			
	Degree of Saturation	%	58	59	59			
Consol^n	Consolidation / Normal Stress applied	kPa	**90**	**180**	**360**			
	Change in height during consolidation	mm	-1.796	-3.180	-3.830			
	Voids ratio after consolidation		1.927	1.771	1.683			
Shear see note 1	Voids ratio at end of test		1.785	1.577	1.470			
	Moisture content at end of test	%	67.3	59.5	55.5			
	Saturation at end of test	%	100	100	100			

Shearing stage

Rate of displacement	Peak	mm/min	0.010	0.010	0.010			
	Residual	mm/min	0.026	0.026	0.026			
Peak values, (o)	Relative displacement	mm	8.04	7.56	7.22			
	Shear stress	kPa	72.3	135.1	259.4			
Residual values, (x)	No. of reversals		2	2	2			
	Relative displacement	mm	10.00	10.00	10.00			
	Shear stress	kPa	70.8	134.4	254.2			



Shear Strength Parameters

Peak strength, (o)		Regression	Manual
c '	kPa	10	-
Ø '	degrees	34½	-
Residual strength, (x)			
c'_R	kPa	11	-
$Ø'_R$	degrees	34	-

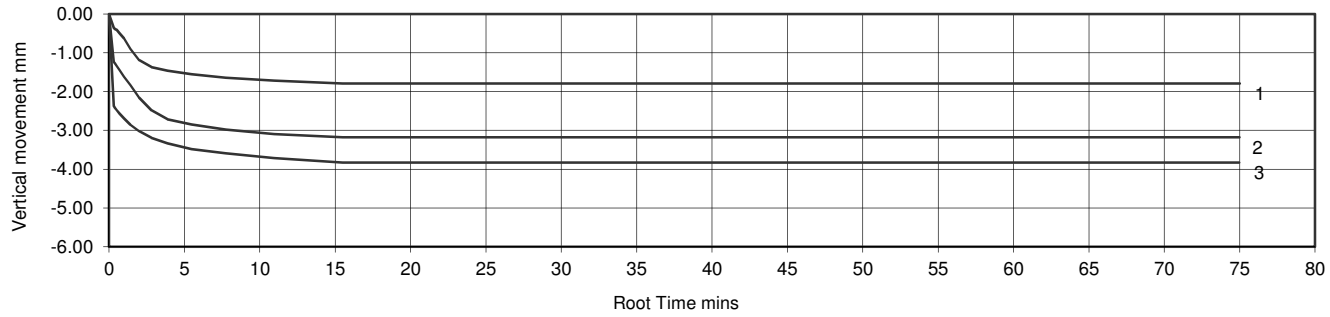
Notes :

1 After shear values based on BS1377. Pt 7 cl. 4.6.1.6 using δH calculated from consolidation and shear stages

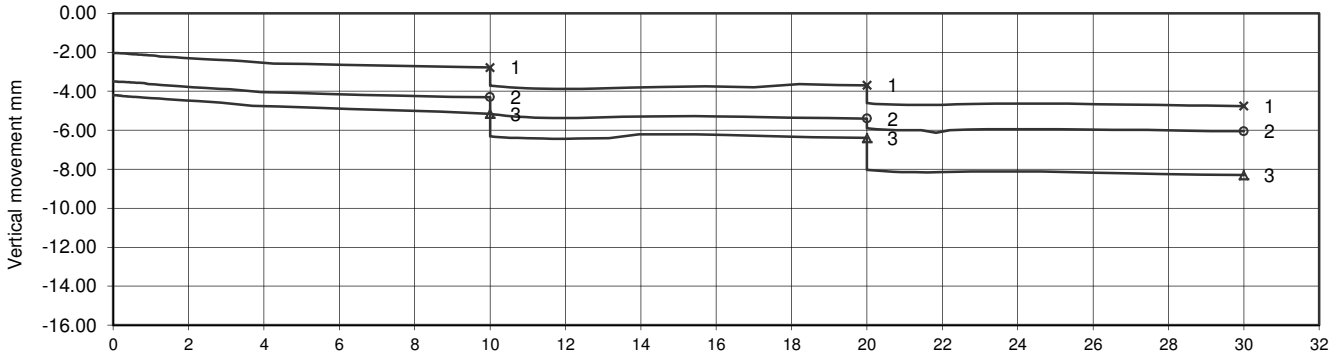
Determination of shear strength by direct shear (Small shearbox apparatus)
(BS1377 : Part 7 : clause 4 : 1990)

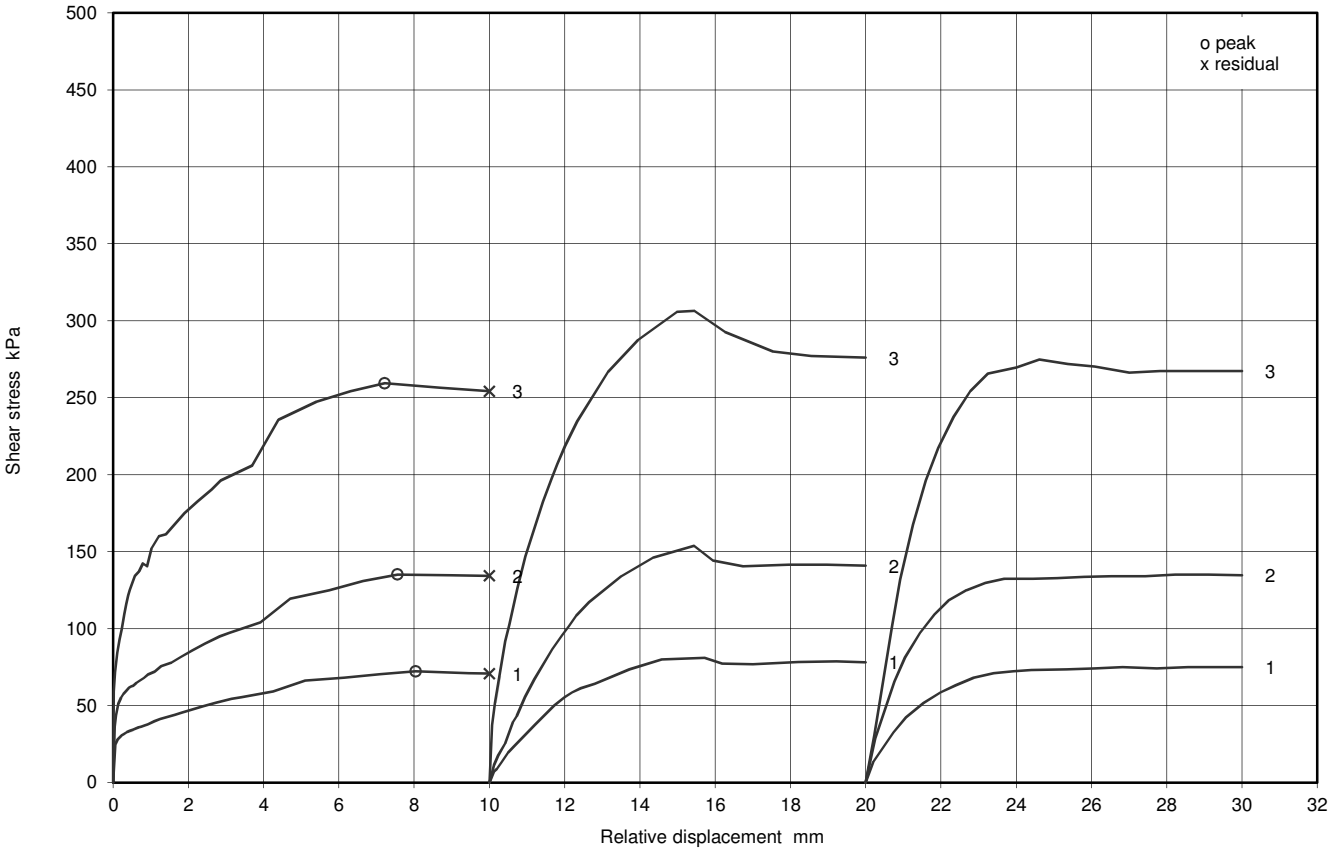
Project No	N5110-15	Sample Details:	Hole No.	WS202		
Project Name	London Paramount Entertainment Resort		Depth (m BGL)	9.00 - 10.00		
			Sample No	36	Type	X
			ID			
			Spec Ref			

Consolidation stage(s)



Shearing stage(s)





Ref			Figure
SLR7.4 Rev 85 Oct 10	ESG	Printed:02/09/2015 11:33	**SSB** sheet 2 of 2

Determination of shear strength by direct shear (Small shearbox apparatus)
(BS1377 : Part 7 : clause 4 : 1990)

Project No	N5110-15	Sample Details:	Hole No.	WS203	
Project Name	London Paramount Entertainment Resort		Depth (m BGL)	1.20 - 2.00	
			Sample No	8	Type X
			ID		
			Spec Ref		

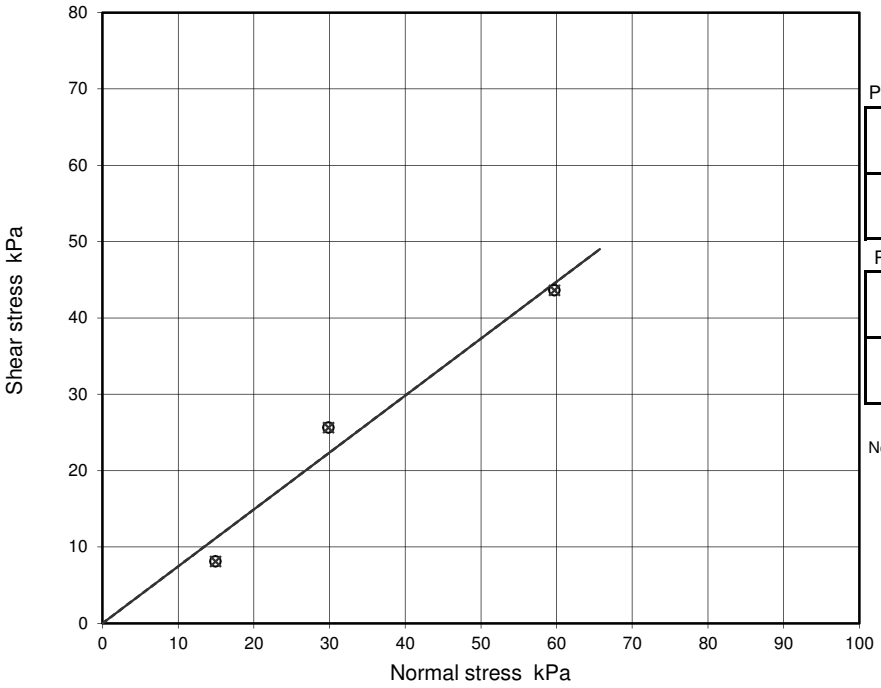
Soil Description	Light brown slightly sandy slightly gravelly SILT.
Specimen Type /Preparation	-2mm material. Recompacted to a medium dense state at as received moisture content.

Specimen(s) nominally 60mm x 60mm square
Test(s) carried out in submerged condition
Particle density, assumed 2.65 Mg/m^3

Specimen Details		No.	1	2	3	4	5	6
Initial	Height	mm	25.0	25.0	25.0			
	Bulk Density	Mg/m^3	1.29	1.29	1.29			
	Water Content	%	58.4	58.7	58.4			
	Dry density	Mg/m^3	0.81	0.81	0.81			
	Voids ratio		2.252	2.258	2.252			
	Degree of Saturation	%	69	69	69			
Consol^n	Consolidation / Normal Stress applied	kPa	**15**	**30**	**60**			
	Change in height during consolidation	mm	-0.090	-0.240	-0.476			
	Voids ratio after consolidation		2.240	2.227	2.190			
Shear see note 1	Voids ratio at end of test		2.268	2.133	2.032			
	Moisture content at end of test	%	75.3	74.2	72.4			
	Saturation at end of test	%	88	92	94			

Shearing stage

Rate of displacement	Peak	mm/min	0.032	0.032	0.032			
	Residual	mm/min	0.081	0.081	0.081			
Peak values, (o)	Relative displacement	mm	7.07	10.24	10.26			
	Shear stress	kPa	8.1	25.6	43.6			
Residual values, (x)	No. of reversals		2	2	2			
	Relative displacement	mm	8.28	10.24	10.26			
	Shear stress	kPa	8.1	25.6	43.6			



Shear Strength Parameters

Peak strength, (o)		Regression	Manual
c '	kPa	(-0.9)	0.0
Ø '	degrees	(37½)	36½

Residual strength, (x)

c'_R	kPa	(-0.9)	0.0
$Ø'_R$	degrees	(37½)	36½

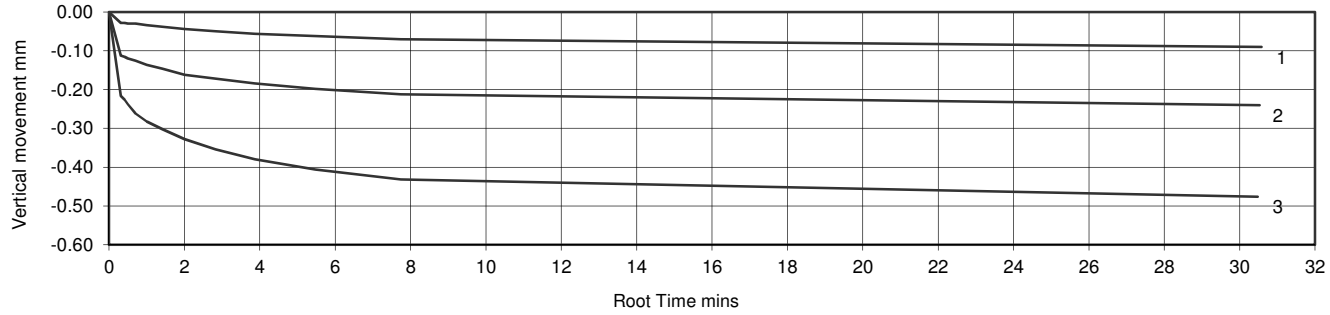
Notes :

1 After shear values based on BS1377. Pt 7 cl. 4.6.1.6 using δH calculated from consolidation and shear stages

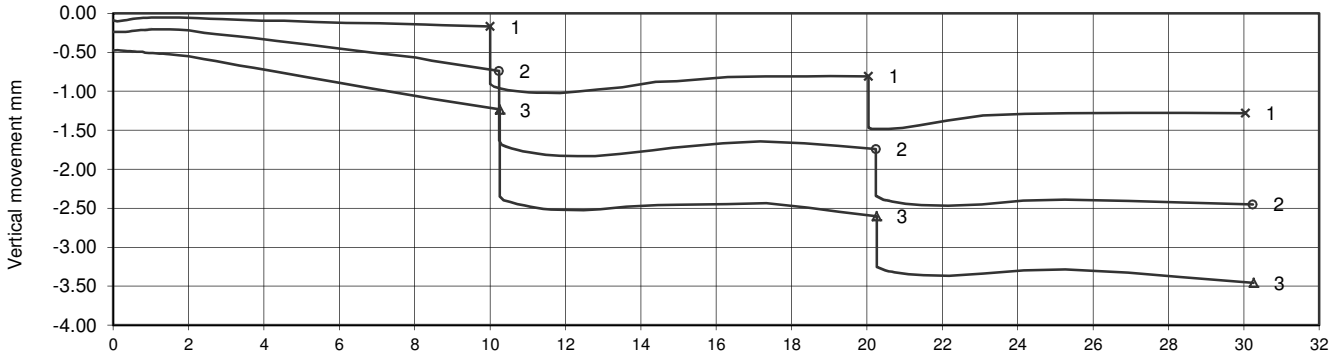
Determination of shear strength by direct shear (Small shearbox apparatus)
(BS1377 : Part 7 : clause 4 : 1990)

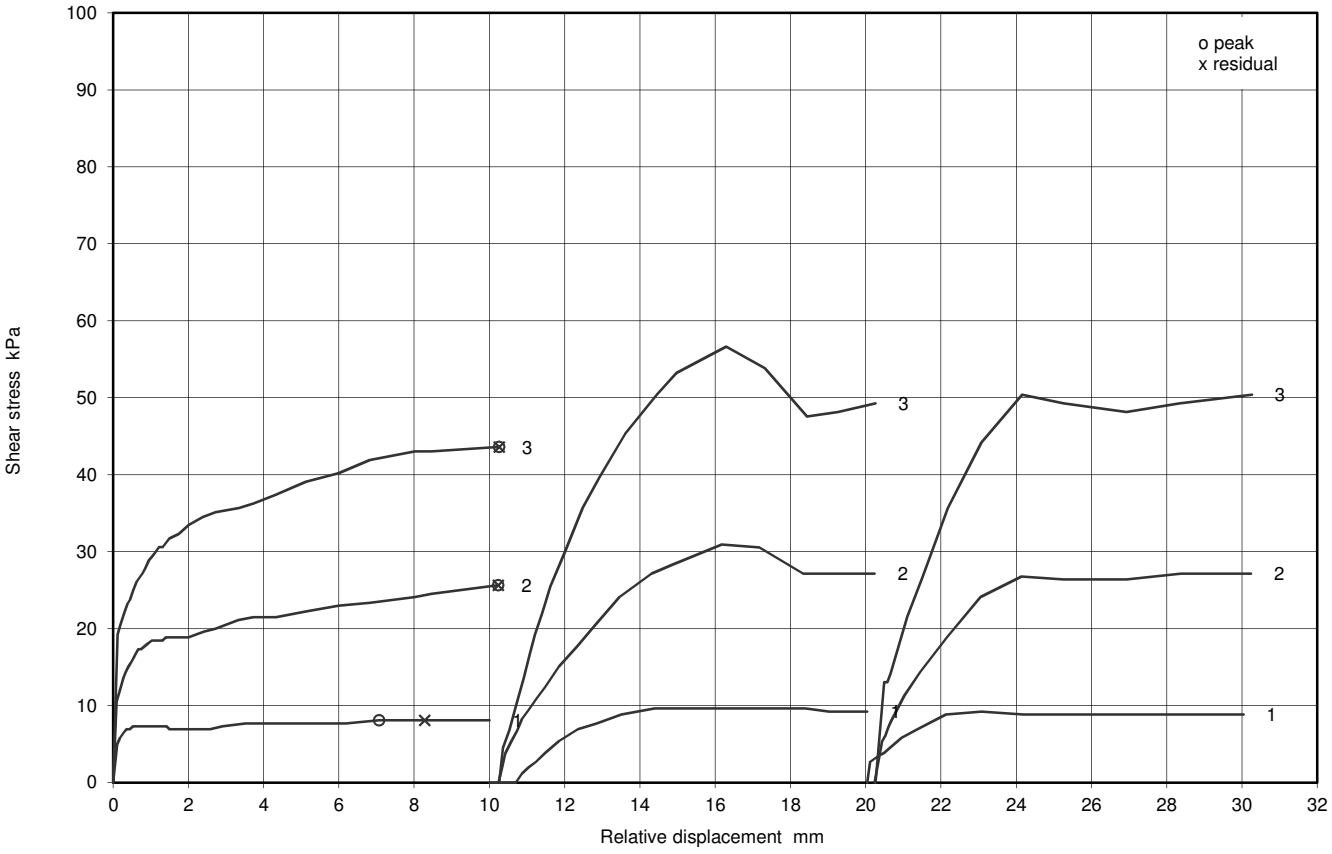
Project No	N5110-15	Sample Details:	Hole No.	WS203		
Project Name	London Paramount Entertainment Resort		Depth (m BGL)	1.20 - 2.00		
			Sample No	8	Type	X
			ID			
			Spec Ref			

Consolidation stage(s)



Shearing stage(s)





Ref			Figure
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Geotechnical Engineering Limited

UNDRAINED TRIAXIAL COMPRESSION

BS.1377 : Part 7 : 1990 : 8 and 9

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample no./ type	sample depth (m)	specimen depth (m)	code	moisture content (%)	density bulk (Mg/m^3)	density dry (Mg/m^3)	cell pressure (kPa)	deviator stress (kPa)	failure strain (%)	failure mode	shear strength* (kPa)	description and remarks
BH101	32UT	7.20	7.40	UU100	64.0	1.49	0.91	150	21	7.8	I	11	Brownish grey slightly sandy silty organic CLAY with rare rootlets
BH101	50UT	12.00	12.20	UUM100	73.1	1.50	0.87	120 240 480	20 28 36	1.9 6.3 9.7	 I	10 14 18	Brownish grey slightly sandy silty organic CLAY with rare rootlets
BH204	32UT	10.00	10.10	UU100	23.5	2.14	1.73	200	42	16.0	B	21	Greyish brown slightly sandy silty CLAY
WS203	11U	2.00	2.20	UU70	48.8	1.70	1.14	44	1280	1.8	S	640	Brownish grey sandy gravelly SILT

general remarks: * shear strength taken as half deviator stress at failure for each stage.
# denotes sample unsuitable to test.

code:
CD - Consolidated drained
CU - Consolidated undrained
UU - Unconsolidated undrained
M - Multistage
S - Set of 3 specimens
R - Remoulded
38 - 38mm dia. x 76mm
70 - 69mm dia. x 140mm
100 - 106mm dia. x 200mm

failure mode:
B - barrelling (plastic failure)
S - shear (brittle failure)
I - intermediate
O - other (see remarks)

membrane correction applied
sample taken vertically (unless specified)
rate of strain = 2%/min (unless specified)

membrane thickness:
38 - 0.2mm 70 - 0.4mm
106 - 0.4mm

CONTRACT **30766**

CHECKED **SR**

Geotechnical Engineering Ltd, Centurion House, Olympus Park, Quedgeley, Gloucester. GL2 4NF. Tel. 01452 527743 30766 MASTER.GPJ 13/10/2015 10:35:35

BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH204
Sample Ref	UT21
Depth (m)	5.20-5.65
Sample Type	U

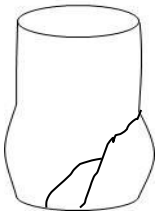
Description:

Soft to firm grey CLAY with rare fine sand and some patches of black organic rich material.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	200.1
Diameter	(mm)	100.9
Moisture Content	(%)	60
Bulk Density	(Mg/m³)	1.69
Dry Density	(Mg/m³)	1.06
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.7
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	110
Strain at failure	(%)	11.0
Maximum Deviator Stress	(kPa)	51
Shear Stress Cu	(kPa)	26

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	150

Checked and Approved by:

Operations Manager
17/08/2015

Project Number:

GEO / 22927

Project Name:

LONDON PARAMOUNT ENTERTAINMENT RESORT

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UKAS TESTING 1982

UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION TESTS WITHOUT MEASUREMENT OF PORE PRESSURE - SUMMARY OF RESULTS

Project No	Project Name
N5110-15	LONDON PARAMOUNT ENTERTAINMENT RESORT

Hole No.	Sample No.	Depth (m) from	Depth (m) to	type	Soil Description	Density bulk Mg/m³	Density dry Mg/m³	*w* %	Test type	Dia. mm	$ó_3$ kPa	At failure / end of stage: Axial strain %	$ó_1 - ó_3$ kPa	c_u kPa	MODE	Remarks
BH101	12	2.20	2.65	UT	Firm dark brown mottled black organic CLAY.	1.39	0.67	109	UU	103.0	50	4.5	53	27	P	
BH201	23	6.70	7.15	UT	Stiff brownish grey slightly sandy clayey SILT.	1.60	0.95	69	UU	103.1	140	11.4	192	96	C	
BH202	13	2.20	2.60	UT	Stiff light greyish brown CHALK	1.35	0.64	110	UU	103.3	50	5.5	347	173	B	

General notes: Tests carried out in accordance with BS1377: Part 7: 1990, clause 8 for single stage, clause 9 for multistage tests. Specimens nominally 2:1 height diameter ratio and tested at a rate of strain of 2%/minute, unless annotated otherwise. See individual test reports for further details.

Legend						
	UU - single stage test (may be in sets of specimens)	$ó_3$	cell pressure	Mode of failure	P	plastic
	UUM - multistage test on a single specimen	$ó_1 - ó_3$	deviator stress		B	brittle
	suffix R - remoulded or recompacted	c_u	undrained shear strength		C	compound

BS1377 : Part 8 : Clause 8

Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	Description: Soft grey organic silty CLAY with rare fine gravel.
Depth (m): 5.20-5.65	

SPECIMEN DETAILS				
Depth within original sample		20 mm from top		
Orientation within original sample		Vertical		
TEST DETAILS				
Specimen Type and Preparation		UT (Undisturbed)		
Cell Preparation		Checks performed in accordance with Clause 3.5		
Specimen Number		**Specimen No. 1**	**Specimen No. 2**	**Specimen No. 3**
Initial Diameter	*mm*	37.65	37.55	37.67
Initial Length	*mm*	75.99	76.00	75.98
Initial Moisture Content	*%*	108	99	102
Initial Wet Density	*Mg/m³*	1.43	1.48	1.45
Drainage Conditions		One end and radial boundary		
SATURATION STAGE		Method: Clause 5.2	Method: Clause 5.3	Method: Clause 5.2 & 5.3
Final Cell Pressure	*kPa*	350	400	500
Final Pore Pressure	*kPa*	346	393	483
Final Pore Pressure Parameter B		0.98	0.97	0.95
Duration	*day(s)*	2	2	2
CONSOLIDATION STAGE				
Cell Pressure	*kPa*	350	400	500
Back Pressure	*kPa*	300	300	300
Effective Pressure	*kPa*	50	100	200
Final Pore Pressure	*kPa*	300	300	300
Final Pore Pressure Dissipation	*%*	100	100	100
Duration	*day(s)*	4	4	5
SHEARING STAGE				
Cell Pressure	*kPa*	350	400	500
Rate of Axial Displacement	*mm/min*	0.00060	0.00060	0.00048
Initial Pore Pressure	*kPa*	300	300	300
Initial Effective Stress	*kPa*	50	100	200
CONDITIONS AT FAILURE	*criteria*	Maximum deviator stress		
Pore Pressure	*kPa*	299	296	296
Minor Effective Principal Stress	*kPa*	51	104	204
Deviator Stress	*kPa*	80	126	218
Major Effective Principal Stress	*kPa*	131	230	422
Volume Change	*mL*	7.40	4.14	5.55
Volumetric Strain	*%*	10.7	6.4	8.8
Axial Strain	*%*	20.6	20.9	18.8
Correction applied to Deviator Stress	*kPa*	17	14	14
Duration	*day(s)*	17	20	22
Final Moisture Content	*%*	66	57	56
Final Wet Density	*Mg/m³*	1.52	1.63	1.67
EFFECTIVE STRESS PARAMETERS				
Cohesion	*kPa*	12		
Angle of Shear Resistance	*degrees*	18		
FAILURE SKETCH				

Checked and Approved by

Senior Technician
09/10/2015

Project Number:

GEO / 23014

Project Name:

LONDON PARAMOUNT ENTERTAINMENT RESORT

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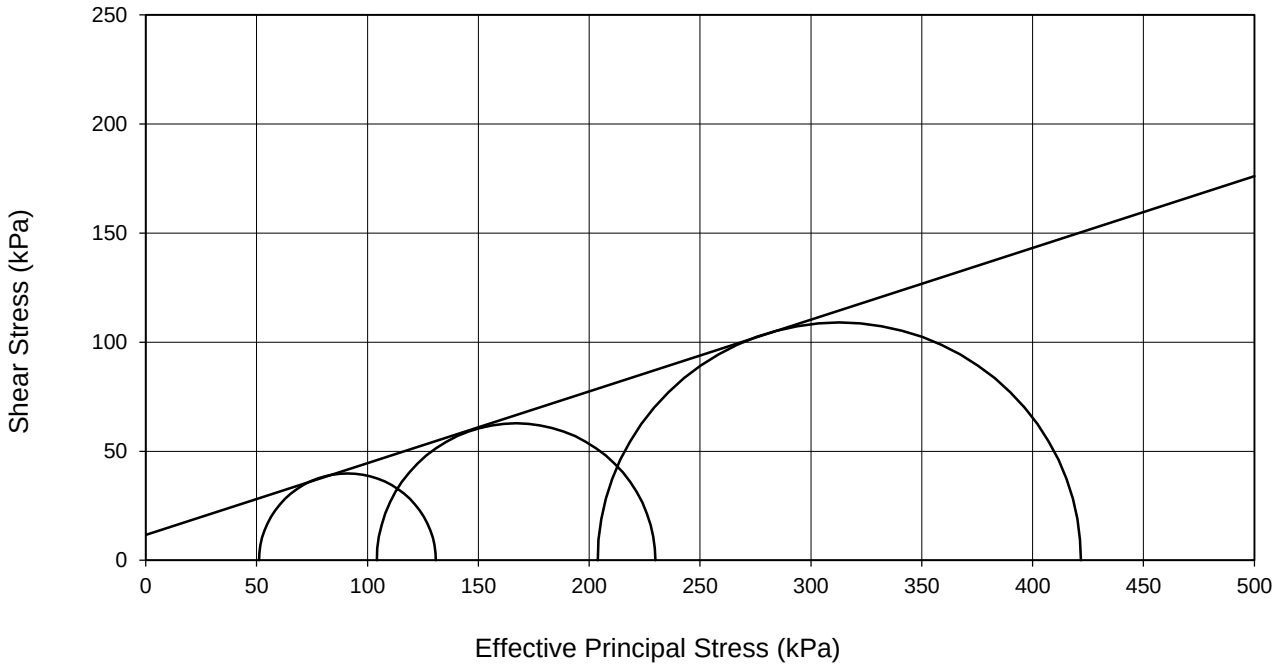
BS1377 : Part 8 : Clause 8

Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	Description: Soft grey organic silty CLAY with rare fine gravel.
Depth (m): 5.20-5.65	



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LONDON PARAMOUNT ENTERTAINMENT RESORT

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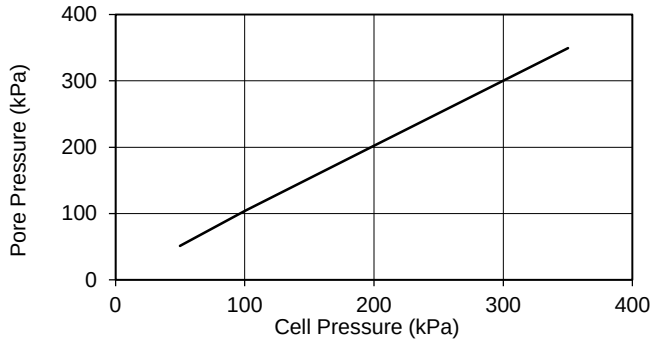
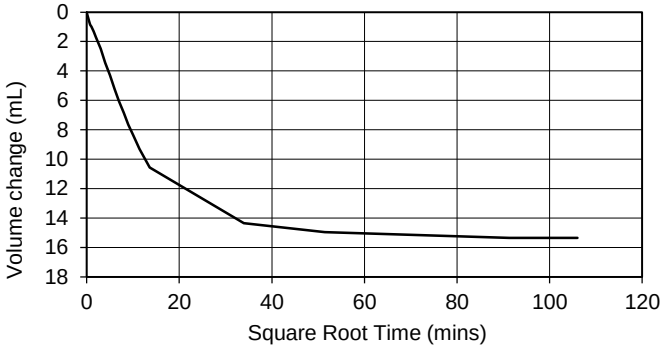
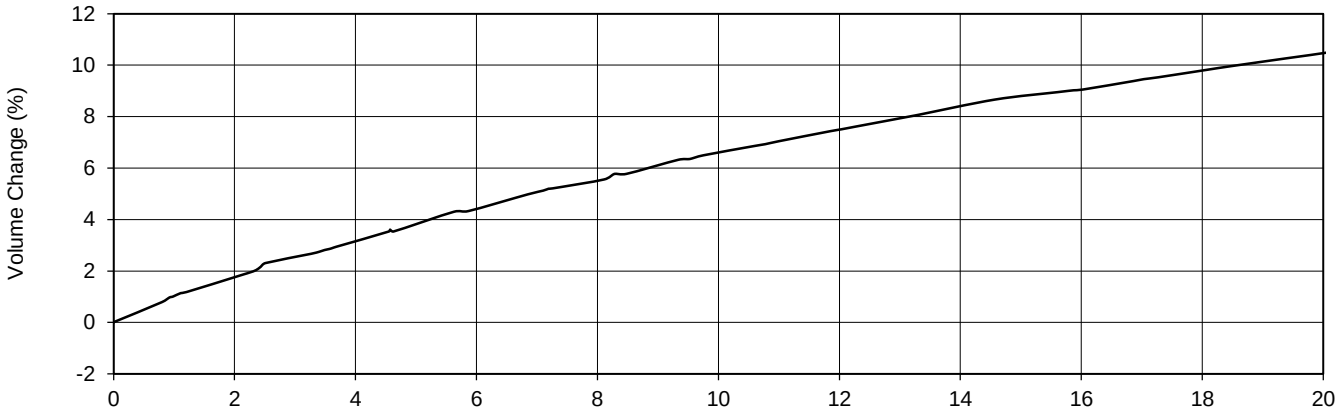
BS1377 : Part 8 : Clause 8

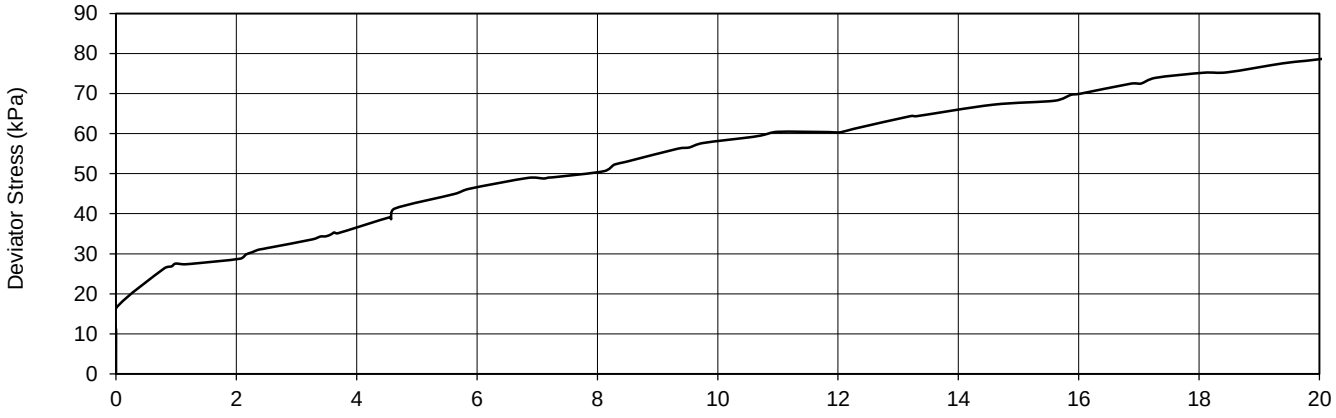
Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	**Specimen 1**
Depth (m): 5.20-5.65	









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09/10/2015

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LONDON PARAMOUNT ENTERTAINMENT RESORT

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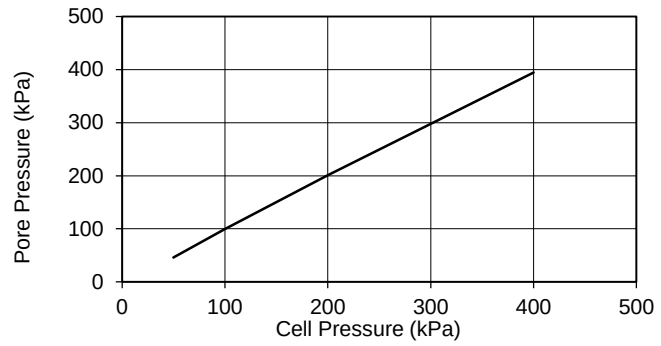
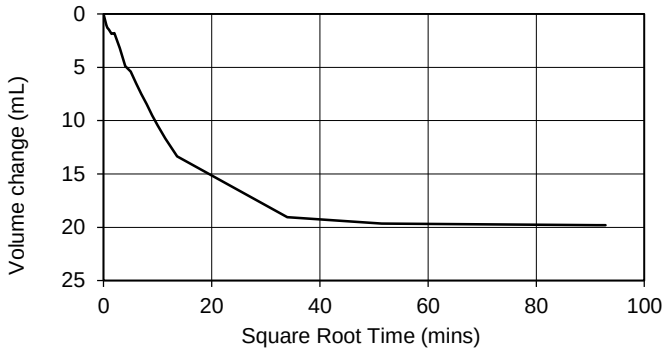
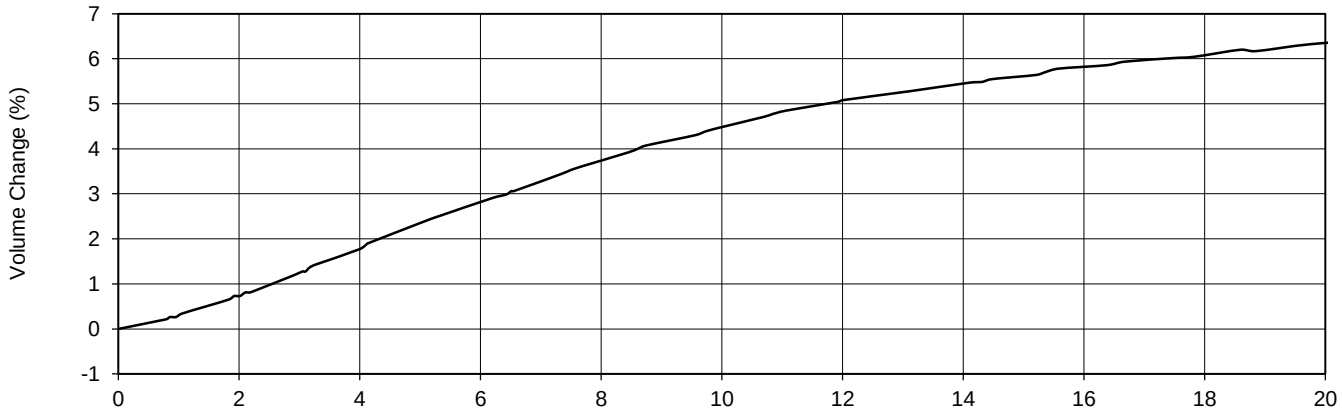
BS1377 : Part 8 : Clause 8

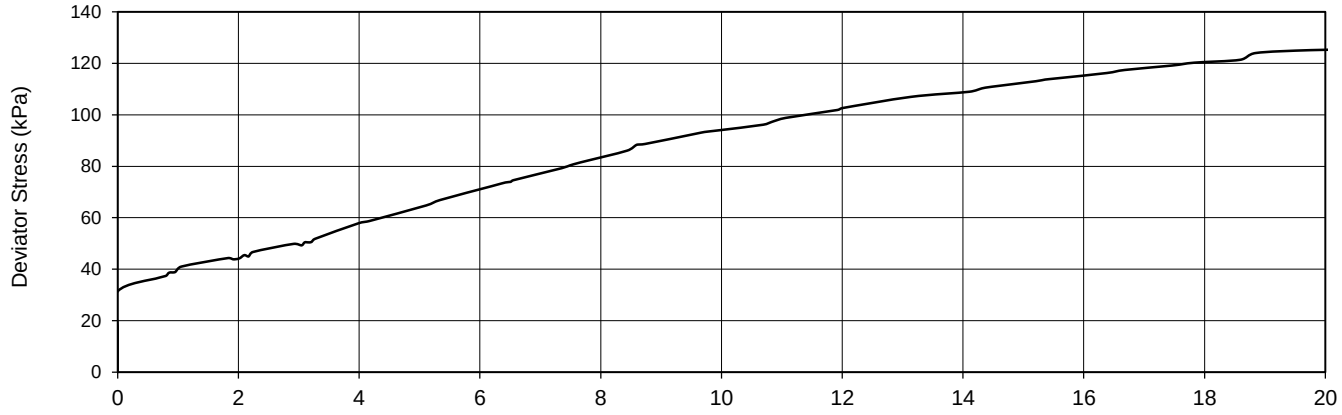
Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	**Specimen 2**
Depth (m): 5.20-5.65	









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09/10/2015

Project Number:

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Project Name:

LONDON PARAMOUNT ENTERTAINMENT RESORT

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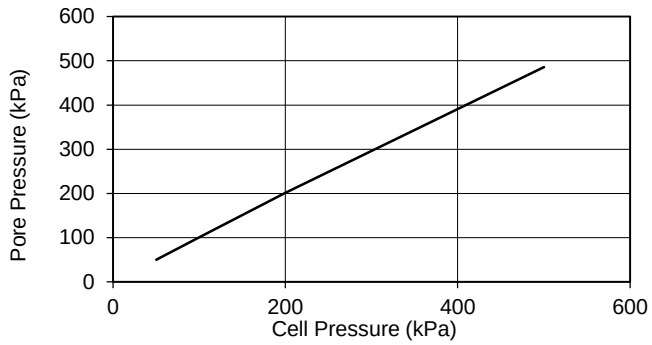
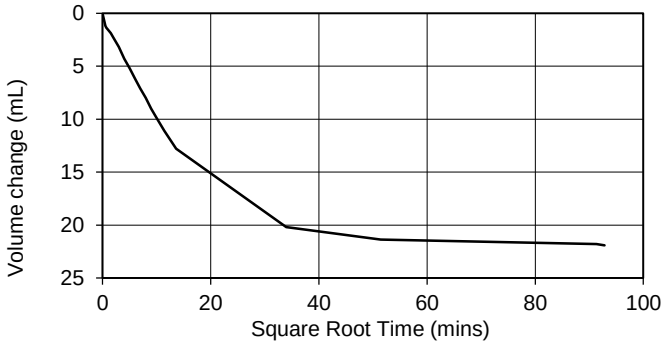
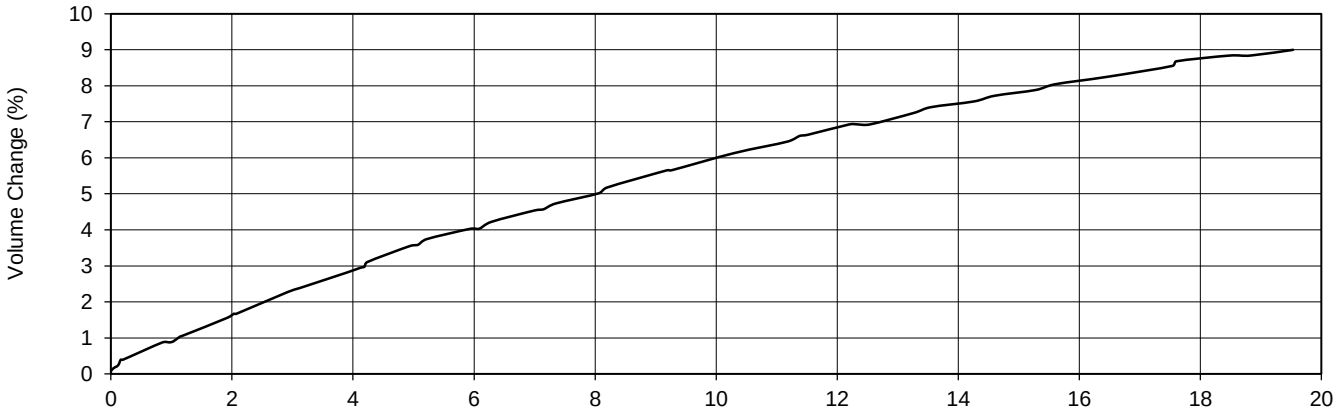
BS1377 : Part 8 : Clause 8

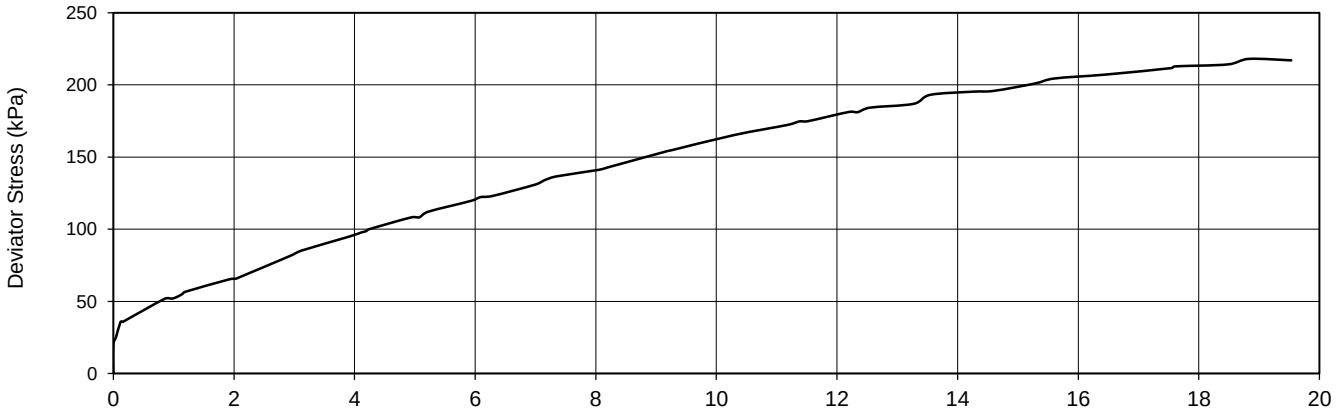
Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	**Specimen 3**
Depth (m): 5.20-5.65	









Checked and Approved by

Senior Technician
09/10/2015

Project Number:

GEO / 23014

Project Name:

LONDON PARAMOUNT ENTERTAINMENT RESORT

30766

GEOLABS

UKAS TESTING 1982

BS1377 : Part 8 : Clause 8

Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	Description: Soft to firm black fibrous PEAT.
Depth (m): 9.20-9.65	

SPECIMEN DETAILS				
Depth within original sample		20 mm from top		
Orientation within original sample		Vertical		
TEST DETAILS				
Specimen Type and Preparation		UT (Undisturbed)		
Cell Preparation		Checks performed in accordance with Clause 3.5		
Specimen Number		**Specimen No. 1**	**Specimen No. 2**	**Specimen No. 3**
Initial Diameter	*mm*	37.52	37.38	37.48
Initial Length	*mm*	76.53	76.53	76.48
Initial Moisture Content	*%*	494	479	479
Initial Wet Density	*Mg/m³*	1.04	1.05	1.03
Drainage Conditions		One end and radial boundary		
SATURATION STAGE		Method: Clause 5.2	Method: Clause 5.3	Method: Clause 5.2 & 5.3
Final Cell Pressure	*kPa*	390	480	660
Final Pore Pressure	*kPa*	381	463	638
Final Pore Pressure Parameter B		1.00	0.98	1.00
Duration	*day(s)*	2	2	2
CONSOLIDATION STAGE				
Cell Pressure	*kPa*	390	480	660
Back Pressure	*kPa*	300	300	300
Effective Pressure	*kPa*	90	180	360
Final Pore Pressure	*kPa*	301	305	309
Final Pore Pressure Dissipation	*%*	99	97	97
Duration	*day(s)*	6	7	6
SHEARING STAGE				
Cell Pressure	*kPa*	390	480	660
Rate of Axial Displacement	*mm/min*	0.00080	0.00080	0.00060
Initial Pore Pressure	*kPa*	301	305	309
Initial Effective Stress	*kPa*	89	176	351
CONDITIONS AT FAILURE	*criteria*	Maximum deviator stress		
Pore Pressure	*kPa*	300	302	299
Minor Effective Principal Stress	*kPa*	90	178	361
Deviator Stress	*kPa*	144	327	582
Major Effective Principal Stress	*kPa*	234	505	943
Volume Change	*mL*	12.20	9.40	3.87
Volumetric Strain	*%*	19.0	17.7	8.7
Axial Strain	*%*	20.9	20.1	20.2
Correction applied to Deviator Stress	*kPa*	18	18	19
Duration	*day(s)*	16	16	19
Final Moisture Content	*%*	262	194	164
Final Wet Density	*Mg/m³*	0.89	1.02	0.97
EFFECTIVE STRESS PARAMETERS				
Cohesion	*kPa*	5.2		
Angle of Shear Resistance	*degrees*	26.5		
FAILURE SKETCH				

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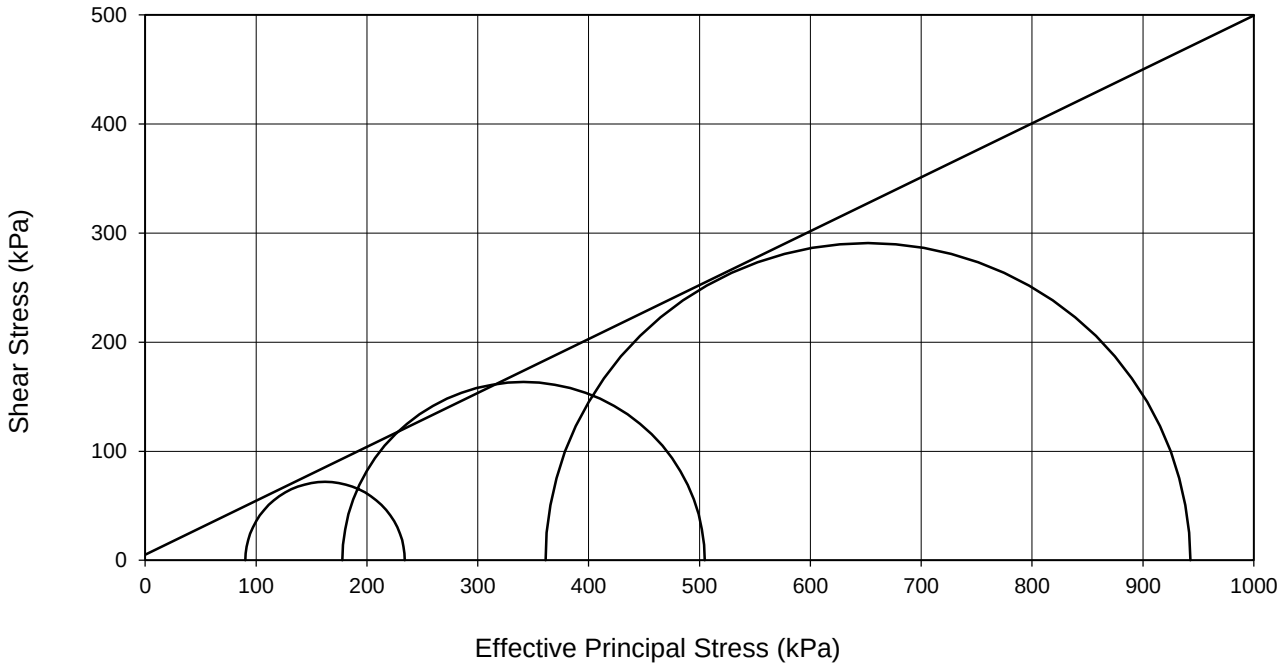
Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	Description: Soft to firm black fibrous PEAT.
Depth (m): 9.20-9.65	



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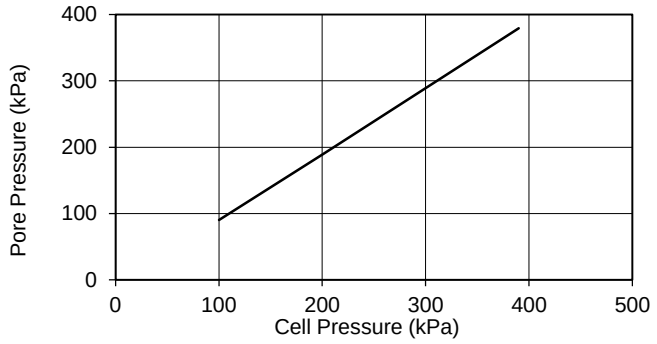
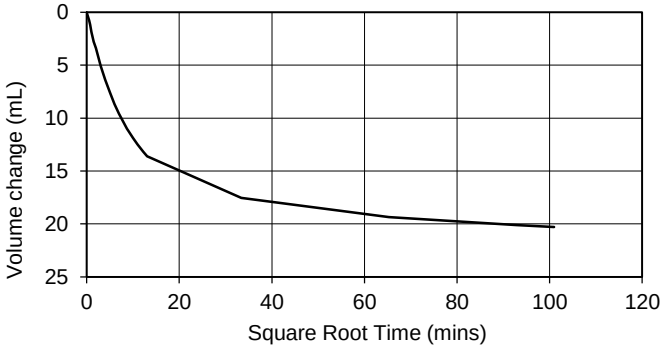
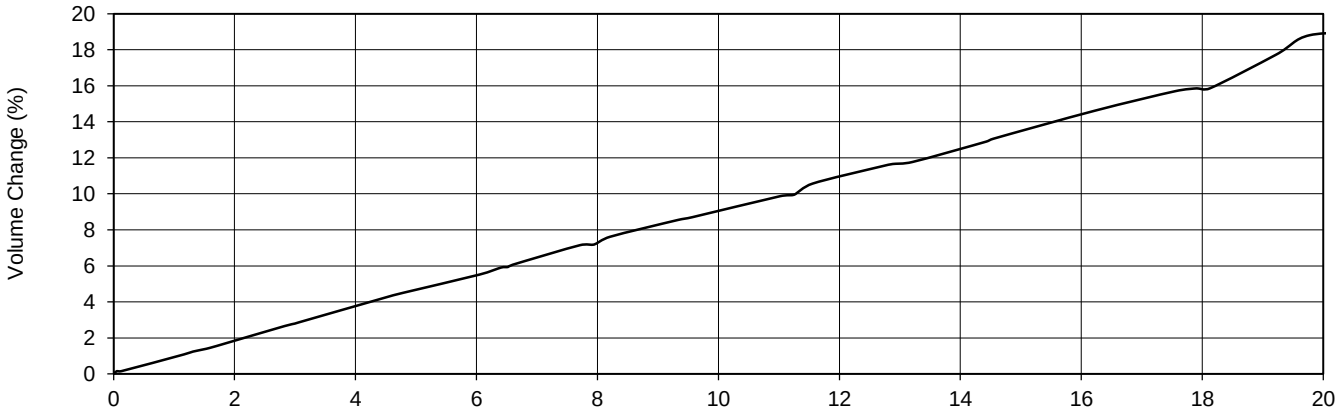
BS1377 : Part 8 : Clause 8

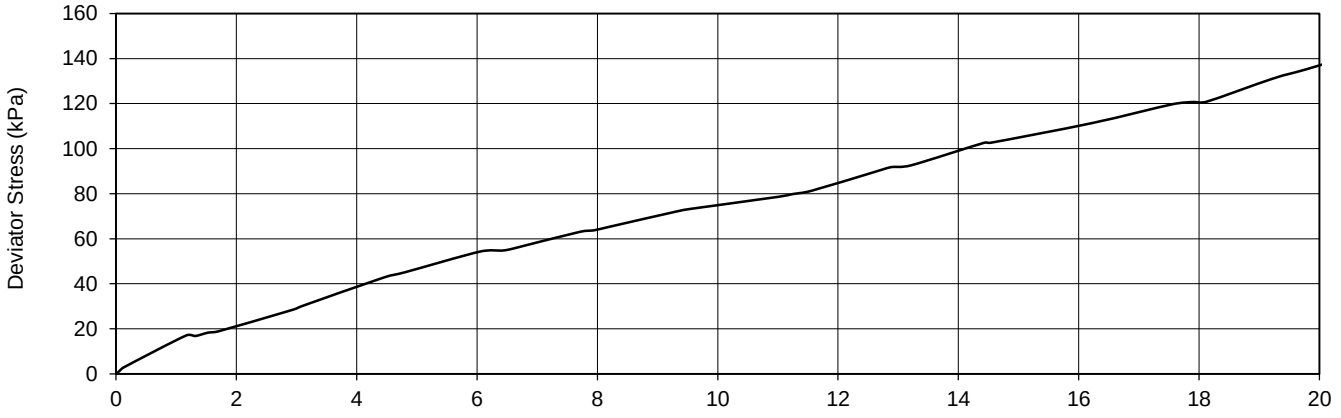
Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	**Specimen 1**
Depth (m): 9.20-9.65	









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Project Number:

GEO / 23014

Project Name:

LONDON PARAMOUNT ENTERTAINMENT RESORT

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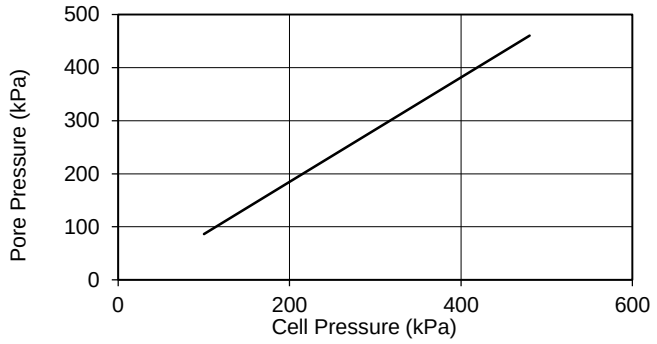
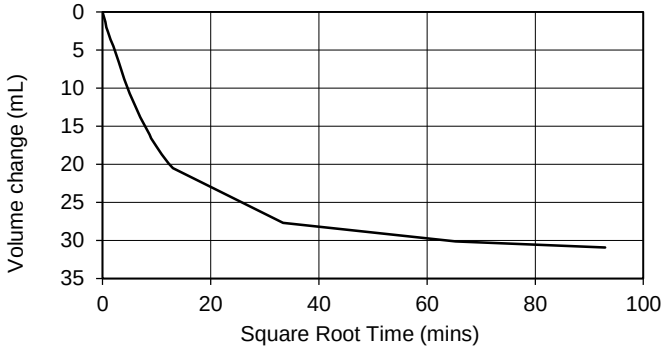
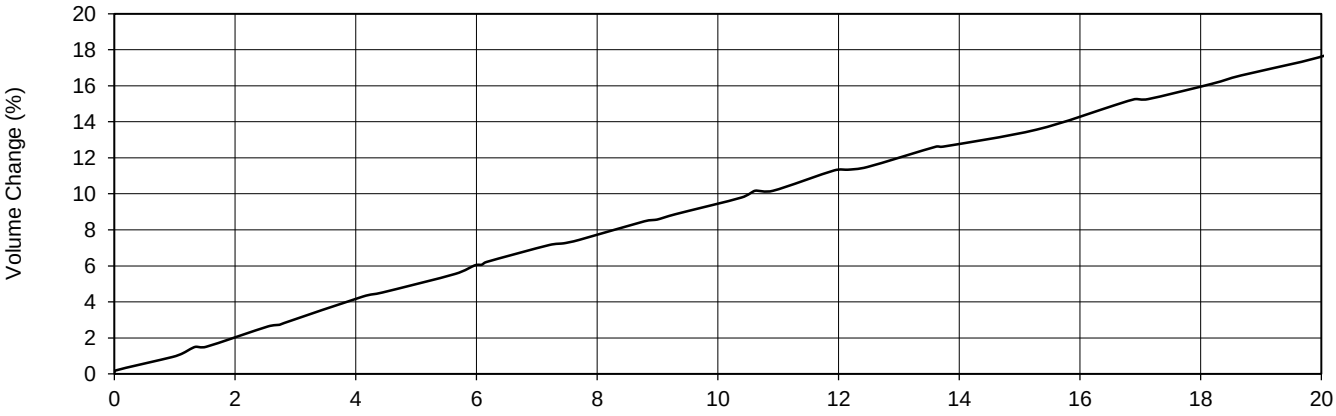
BS1377 : Part 8 : Clause 8

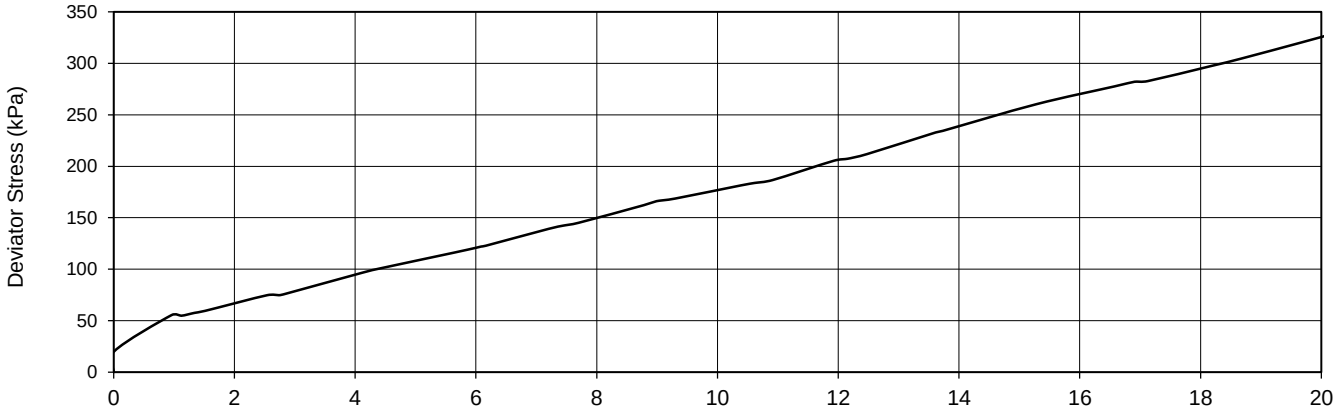
Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	**Specimen 2**
Depth (m): 9.20-9.65	









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Project Number:

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Project Name:

LONDON PARAMOUNT ENTERTAINMENT RESORT

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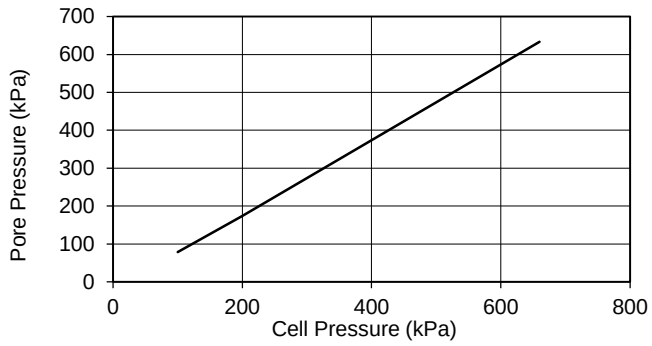
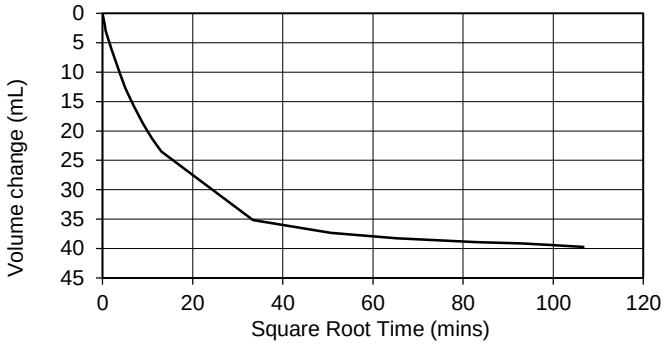
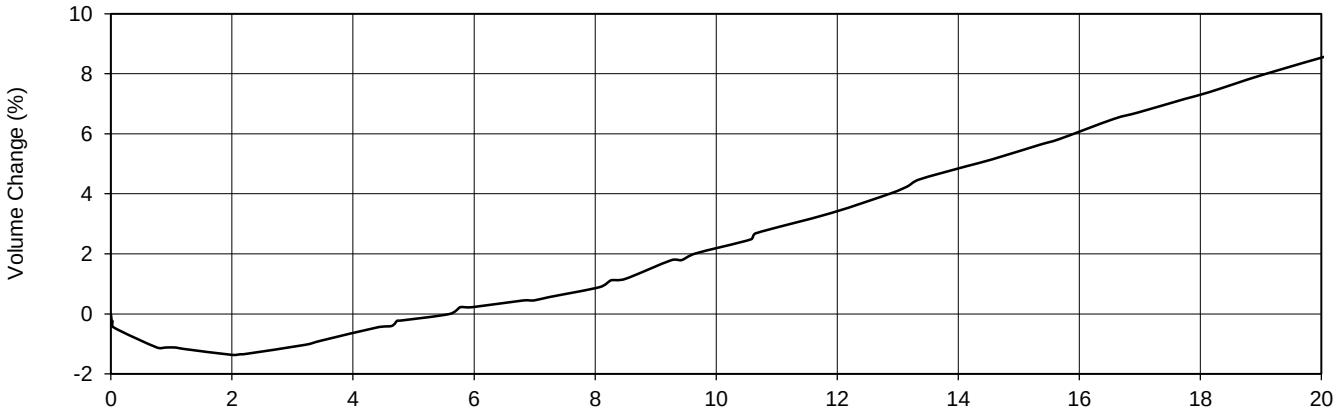
BS1377 : Part 8 : Clause 8

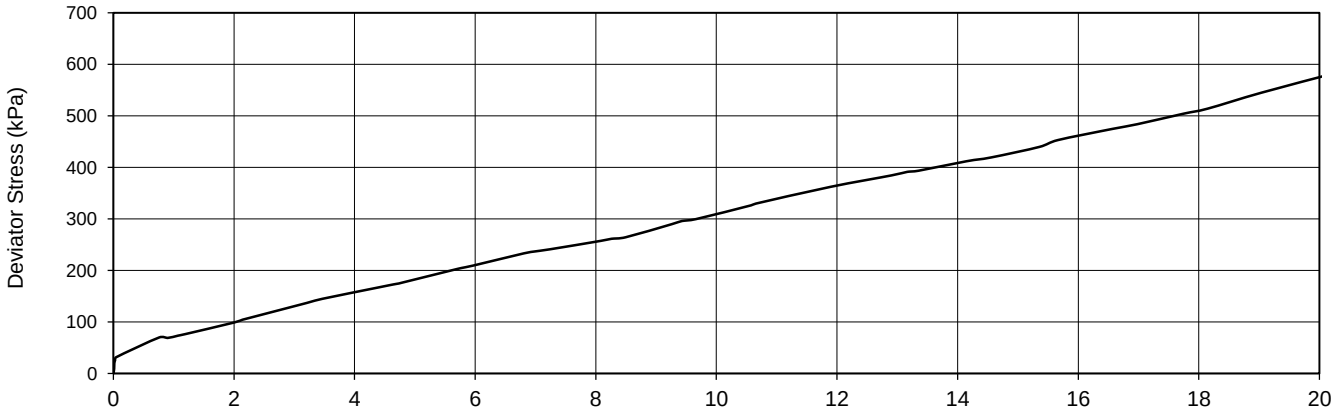
Consolidated Drained Triaxial Compression Test with Measurement of Volume Change

Borehole No.: 101	**Specimen 3**
Depth (m): 9.20-9.65	









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Project Number:

GEO / 23014

Project Name:

LONDON PARAMOUNT ENTERTAINMENT RESORT

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Consolidated Drained Triaxial Compression test with Measurement of Volume Change
(BS1377 : Part 8 : 1990)

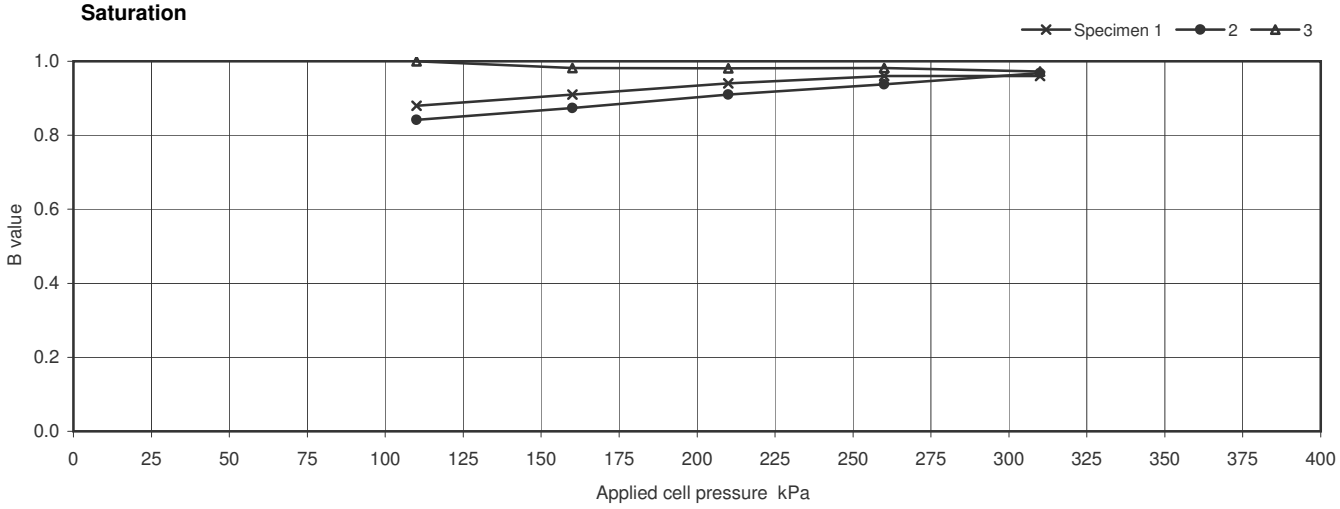
Project No	N5110-15	Sample Details:	Hole No		BH202	
Project Name	(30766) LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)		8.2-8.6	
			No	34	Type	UT
			ID			
			Spec Ref		8.35-8.55m	

Specimen Details			1	2	3
Initial	Length	mm	74.9	75.9	75.5
	Diameter	mm	37.5	37.0	37.6
	Bulk Density	Mg/m³	1.15	1.09	1.15
	Water Content	%	249	214	250
	Dry density	Mg/m³	0.33	0.35	0.33
After consolidation	Length	mm	63.6	61.4	59.5
	Diameter	mm	31.4	29.6	28.6
	Bulk Density	Mg/m³	1.27	1.25	1.25
	Water Content	%	129	84.0	74.3
	Dry density	Mg/m³	0.55	0.68	0.72
After test	Bulk Density	Mg/m³	1.23	1.81	1.27
	Water Content	%	163	114	105
	Dry density	Mg/m³	0.47	0.85	0.62

Soil Description	Firm black pseudo fibrous PEAT with occasional rootlets.
Specimen Type /Preparation	UNDISTURBED

Saturation Details		Method of Saturation		
		Increments of cell and back pressure		
Cell pressure increments	kPa	50	50	50
Differential Pressure	kPa	10	10	10
Final Cell Pressure	kPa	310	310	310
Final pore water pressure	kPa	300	296.1	298.3
Final B Value		0.96	0.97	0.97

Saturation

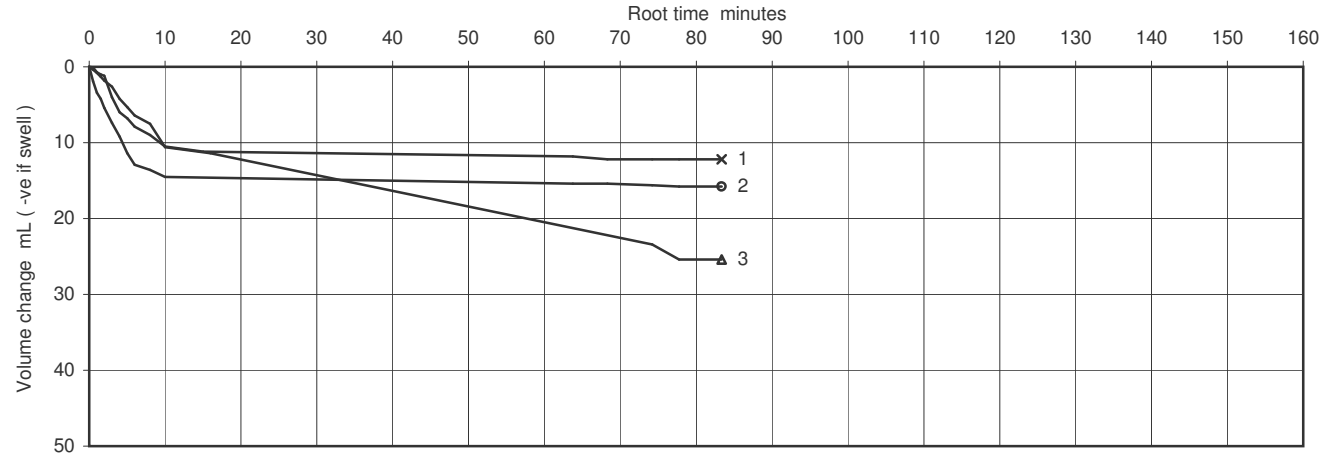


Consolidation Details see sheet 2 for plots	Drainage Conditions		From radial boundary and one end			
	Specimen No.		1	2	3	
	Cell Pressure applied		380	460	620	kPa
	Back Pressure applied		300	300	300	kPa
	Effective Pressure		80	160	320	kPa
	Pore pressure at start of consolidation		376	448	606	kPa
	Pore pressure at end of consolidation		300	300	304	kPa
	Pore pressure dissipation at end of consolidation		100	100	99	%
Consolidation parameters (see note to BS1377 : pt 8, clause 6.3.4)	Coefficient of Consolidation	C_{vi}	0.44	0.37	0.03	m^2/year
	Coefficient of Compressibility	M_{vi}	2.71	1.95	1.44	m^2/MN
	Coefficient of Permeability (calculated)	k_{vi}	3.7E-10	2.2E-10	1.5E-11	m/s

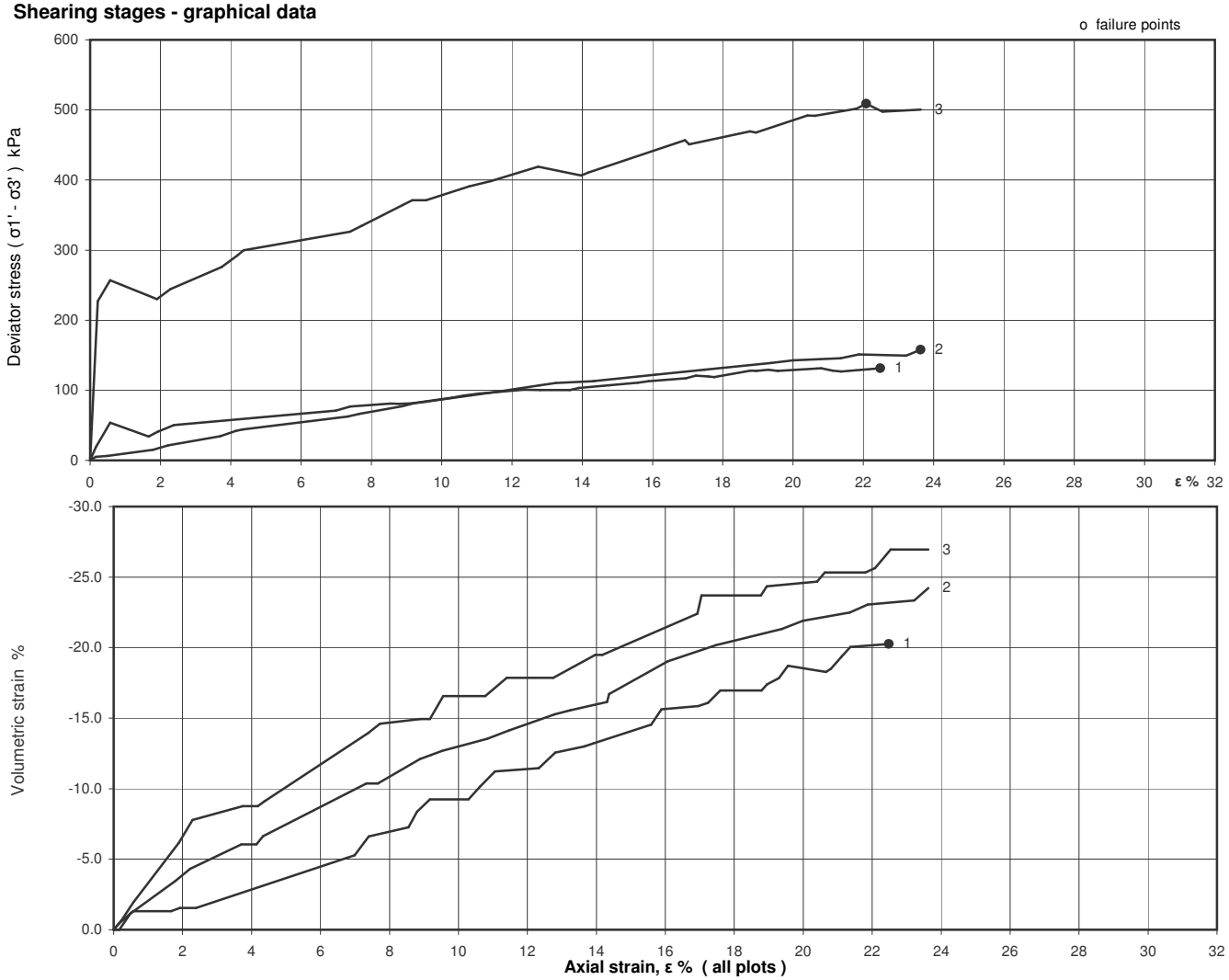
Consolidated Drained Triaxial Compression test with Measurement of Volume Change
(BS1377 : Part 8 : 1990)

Project No	N5110-15	Sample Details:	Hole No		BH202	
Project Name	(30766) LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)		8.2-8.6	
			No	34	Type	UT
			ID			
			Spec Ref	8.35-8.55m		

Consolidation



Shearing stages - graphical data



Ref			Figure
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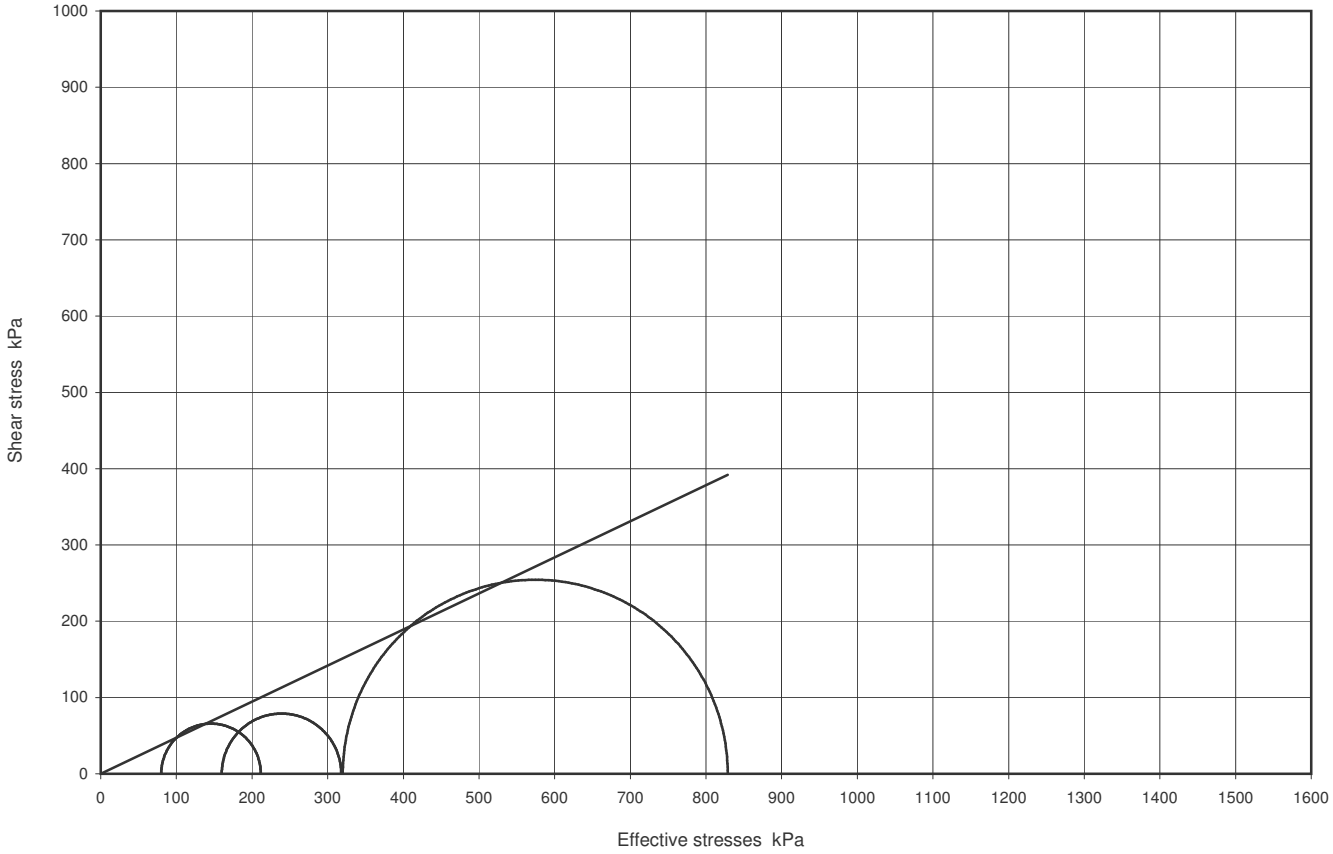
Consolidated Drained Triaxial Compression test with Measurement of Volume Change
(BS1377 : Part 8 : 1990)

Project No	N5110-15	Sample Details:	Hole No		BH202	
Project Name	(30766) LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)		8.2-8.6	
			No	34	Type	UT
			ID			
			Spec Ref	8.35-8.55m		

Mohr Circles



Compression stages

Specimen	1	2	3	
Cell pressure	380	460	620	kPa
Initial pwp	300	300	300	kPa
Initial σ_3'	80	160	320	kPa
Rate of strain	0.07	0.07	0.07	%/hr

Shear Strength Parameters

Linear regression

c '	kPa	(-16.6)
Ø '	degrees	(27.5)

Manual re-assessment

c '	kPa	0
Ø '	degrees	25.3

Failure conditions

Criterion	Maximum deviator stress			
Axial strain	22.49	23.63	22.08	%
$(\sigma_1' - \sigma_3')_f$	131.6	157.9	508.7	kPa
Volumetric strain	-20.26	-24.21	-25.65	%
$\sigma_3'_f$	80	160	320	kPa
$\sigma_1'_f$	212	318	829	kPa
Time to failure	321.2	337.6	315.5	hrs

Notes :

Deviator stresses corrected for area change, vertical side drains and 0.285 mm thick rubber membrane(s)

Mode of failure

Consolidated Drained Triaxial Compression test with Measurement of Volume Change
(BS1377 : Part 8 : 1990)

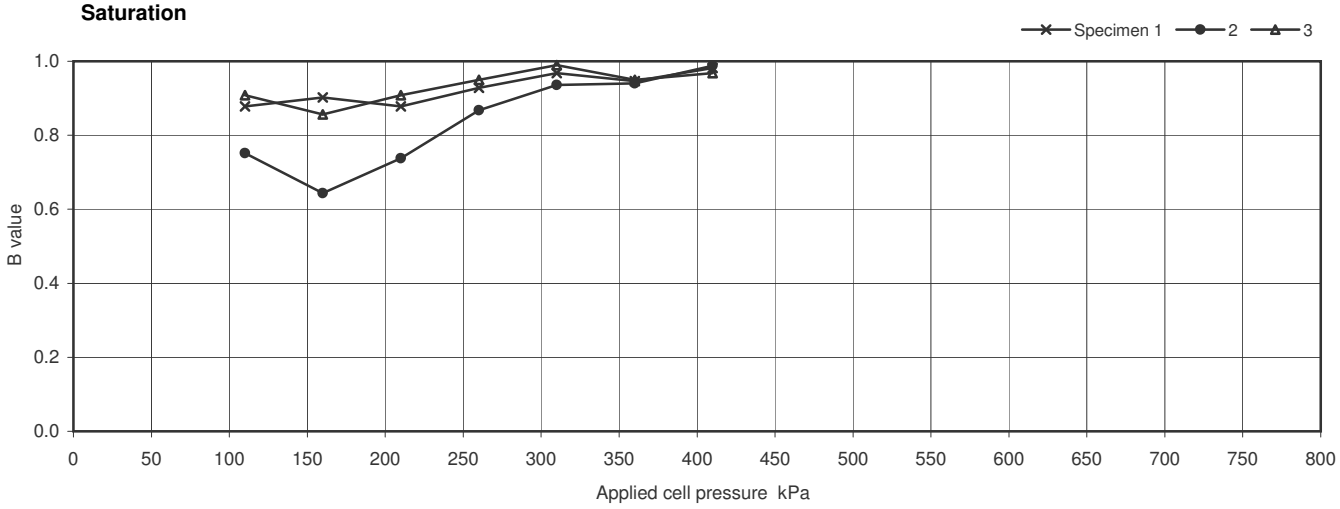
Project No	N5110-15	Sample Details:	Hole No		BH202	
Project Name	(30766) LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)		13.00-13.45	
			No	50	Type	UT
			ID			
			Spec Ref	13.20-13.40m		

Specimen Details			1	2	3
Initial	Length	mm	75.1	75.0	74.7
	Diameter	mm	37.5	36.5	37.7
	Bulk Density	Mg/m³	1.56	1.60	1.57
	Water Content	%	78.6	77.8	76.6
	Dry density	Mg/m³	0.87	0.90	0.89
After consolidation	Length	mm	67.5	66.5	64.4
	Diameter	mm	33.5	33.2	32.1
	Bulk Density	Mg/m³	1.74	1.71	1.85
	Water Content	%	43.5	38.9	30.0
	Dry density	Mg/m³	1.21	1.23	1.42
After test	Bulk Density	Mg/m³	1.66	1.99	1.80
	Water Content	%	53.2	46.6	36.9
	Dry density	Mg/m³	1.09	1.36	1.32

Soil Description	Soft grey organic CLAY.
Specimen Type /Preparation	UNDISTURBED

Saturation Details		Method of Saturation		
		Increments of cell and back pressure		
Cell pressure increments	kPa	50	50	50
Differential Pressure	kPa	10	10	10
Final Cell Pressure	kPa	410	410	410
Final pore water pressure	kPa	398.4	394.9	390.5
Final B Value		0.98	0.99	0.97

Saturation

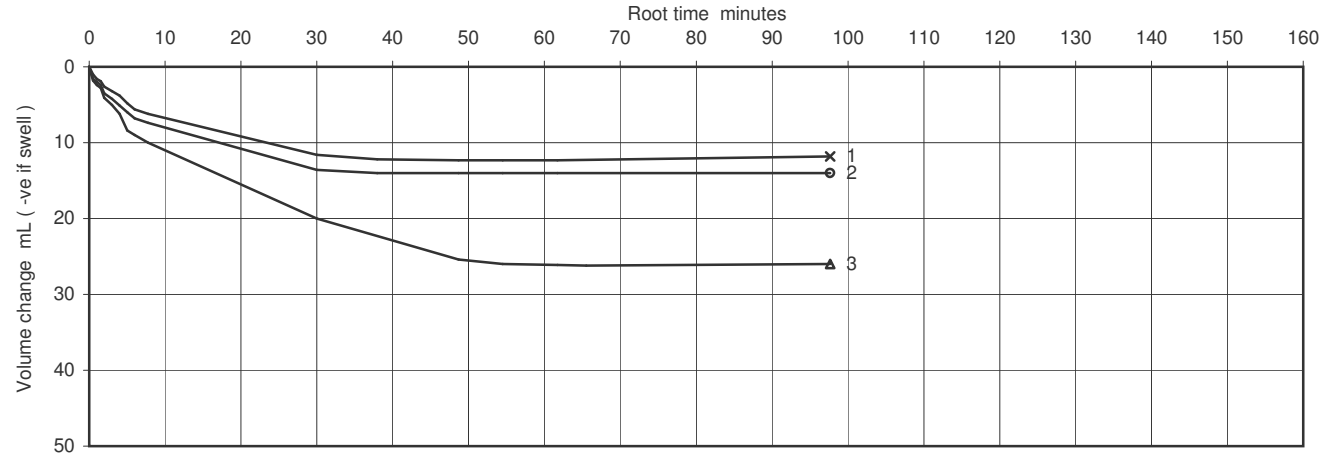


Consolidation Details see sheet 2 for plots	Drainage Conditions		From radial boundary and one end			
	Specimen No.		1	2	3	
	Cell Pressure applied		480	610	870	kPa
	Back Pressure applied		350	350	350	kPa
	Effective Pressure		130	260	520	kPa
	Pore pressure at start of consolidation		465	599	859	kPa
	Pore pressure at end of consolidation		350	350	355	kPa
	Pore pressure dissipation at end of consolidation		100	100	99	%
Consolidation parameters (see note to BS1377 : pt 8, clause 6.3.4)	Coefficient of Consolidation	C_{vi}	0.14	0.13	0.09	m^2/year
	Coefficient of Compressibility	M_{vi}	1.45	0.79	0.69	m^2/MN
	Coefficient of Permeability (calculated)	k_{vi}	6.2E-11	3.2E-11	2.0E-11	m/s

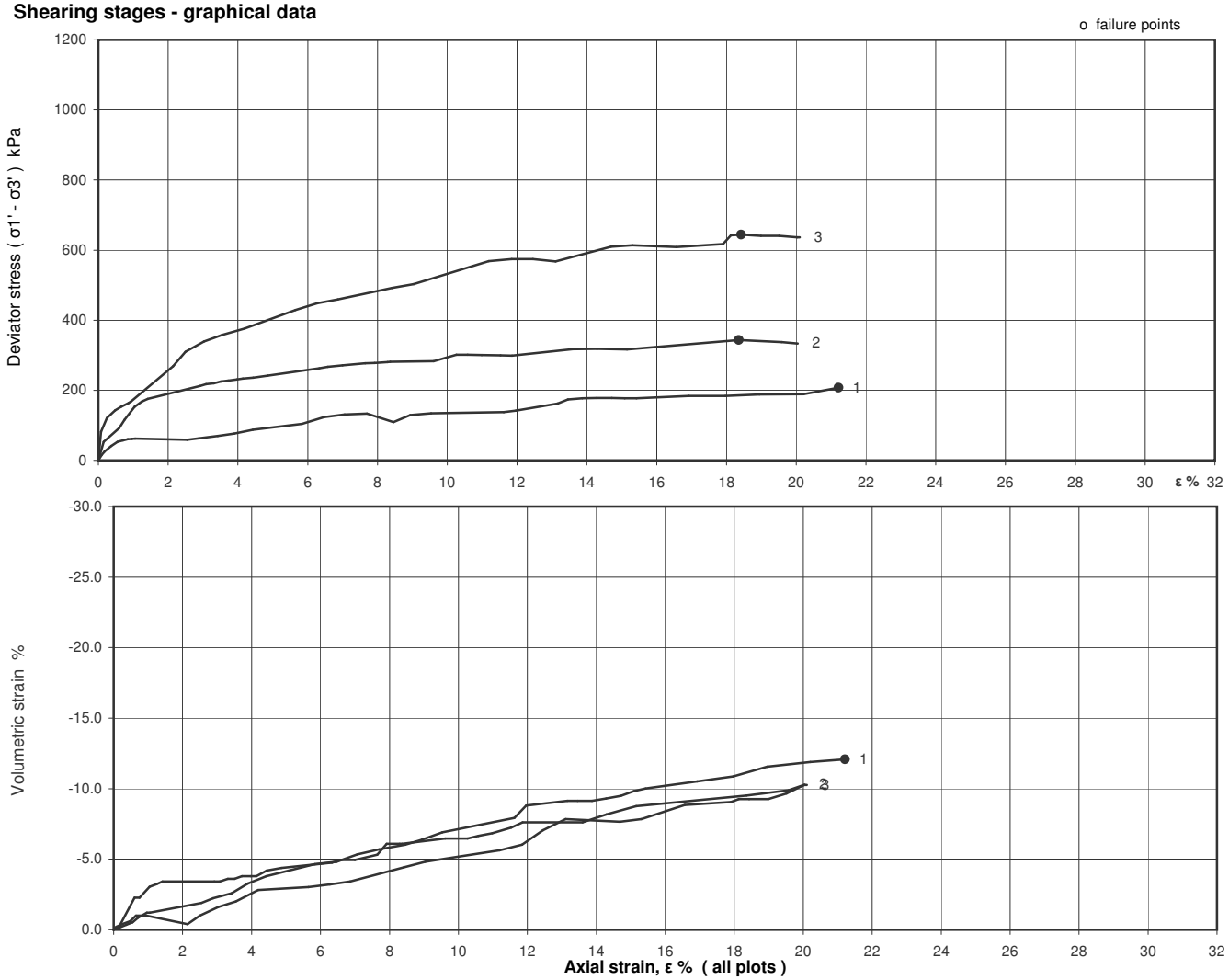
Consolidated Drained Triaxial Compression test with Measurement of Volume Change
(BS1377 : Part 8 : 1990)

Project No	N5110-15	Sample Details:	Hole No		BH202	
Project Name	(30766) LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)		13.00-13.45	
			No	50	Type	UT
			ID			
			Spec Ref	13.20-13.40m		

Consolidation



Shearing stages - graphical data

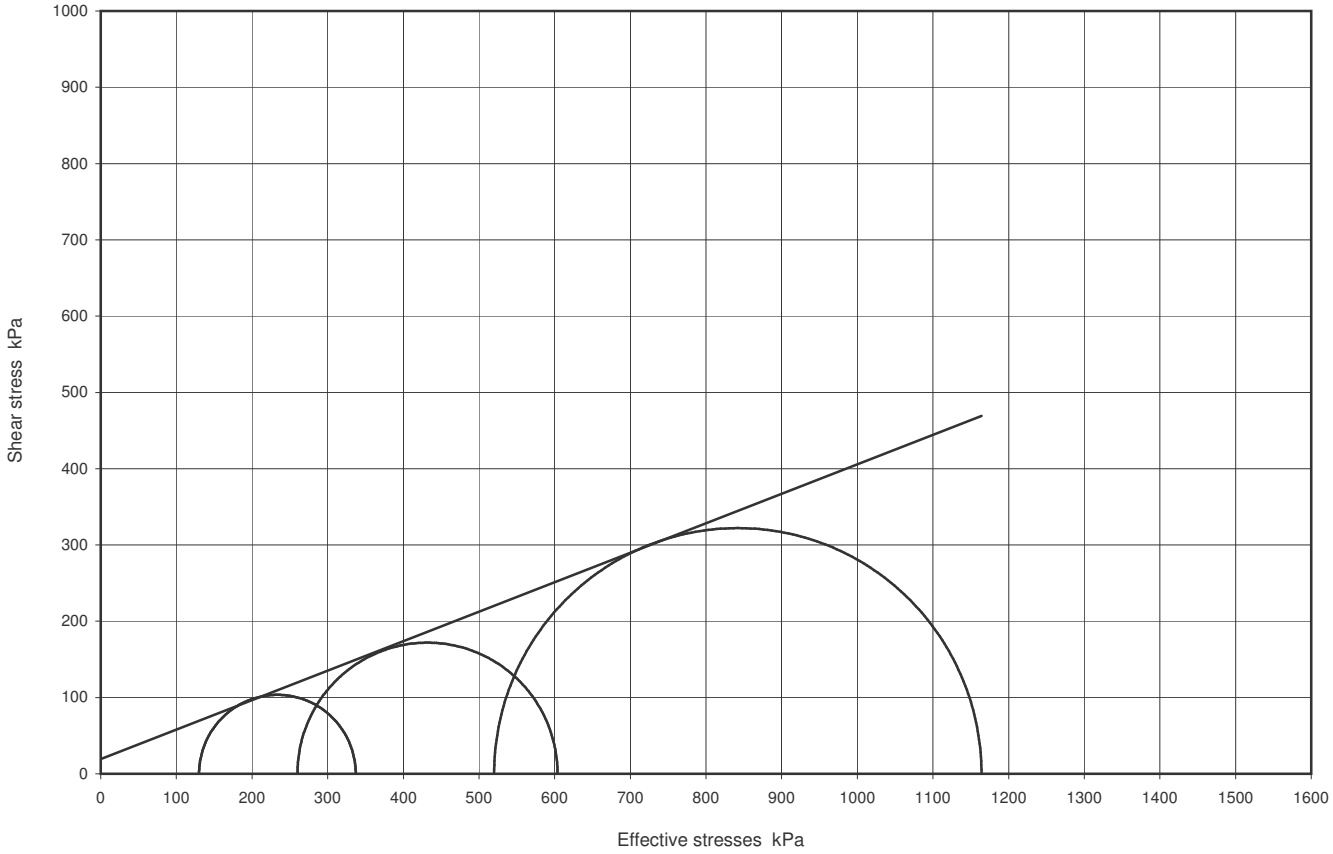


Ref			Figure
SLR8.2 Rev 85 Jan 10	ESG	Printed:06/10/2015 14:49	**CD** sheet 2 of 3

Consolidated Drained Triaxial Compression test with Measurement of Volume Change
(BS1377 : Part 8 : 1990)

Project No	N5110-15	Sample Details:	Hole No		BH202	
Project Name	(30766) LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)		13.00-13.45	
			No	50	Type	UT
			ID			
			Spec Ref	13.20-13.40m		

Mohr Circles



Compression stages

Specimen	1	2	3	
Cell pressure	480	610	870	kPa
Initial pwp	350	350	350	kPa
Initial σ_3'	130	260	520	kPa
Rate of strain	0.22	0.22	0.22	%/hr

Shear Strength Parameters

Linear regression

c '	kPa	19.5
Ø '	degrees	21.1

Manual re-assessment

c '	kPa	-
Ø '	degrees	-

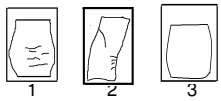
Failure conditions

Criterion	Maximum deviator stress			
Axial strain	21.21	18.36	18.43	%
$(\sigma_1' - \sigma_3')_f$	207.0	343.8	644.2	kPa
Volumetric strain	-12.07	-9.52	-9.26	%
$\sigma_3'_f$	130	260	520	kPa
$\sigma_1'_f$	337	604	1164	kPa
Time to failure	96.4	83.4	83.8	hrs

Notes :

Deviator stresses corrected for area change, vertical side drains and 0.25 mm thick rubber membrane(s)

Mode of failure



Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990)

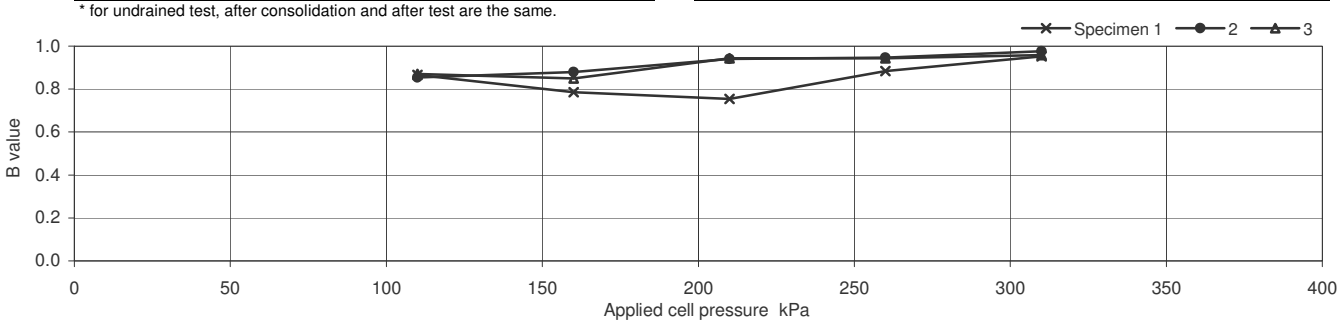
Project No	N5110-15	Sample Details:	Hole No	BH202	
Project Name	(30766) LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	16.00-16.45	
			No	59	Type UT
			ID		
			Spec Ref	16.20-16.40m	

Specimen Details			1	2	3
Initial	Length	mm	76.53	75.42	75.36
	Diameter	mm	37.90	37.83	37.06
	Bulk Density	Mg/m³	1.50	1.57	1.60
	Water Content	%	72	67	65
	Dry density	Mg/m³	0.87	0.94	0.97
After consolidation	Length	mm	72.60	70.59	69.07
	Diameter	mm	35.89	35.44	33.82
	Bulk Density*	Mg/m³	1.63	1.70	1.78
	Water Content*	%	59	48	39
	Dry density*	Mg/m³	1.03	1.14	1.28

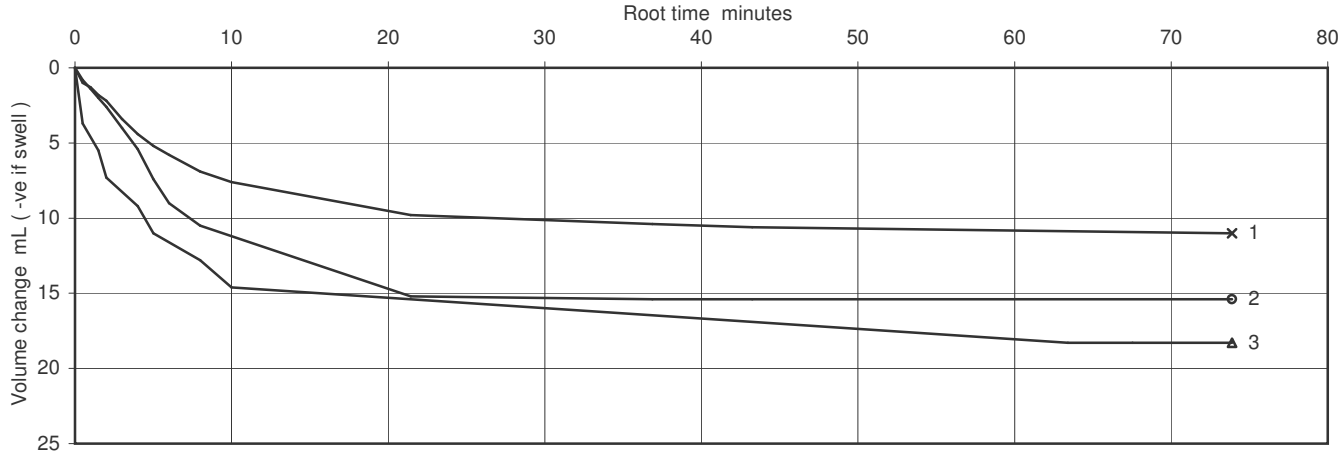
* for undrained test, after consolidation and after test are the same.

Soil Description	Soft grey CLAY.
Specimen Type /Preparation	UNDISTURBED

Saturation Details		Method of Saturation		
		Increments of cell and back pressure		
Cell pressure increments	kPa	50	50	50
Differential Pressure	kPa	10	10	10
Final Cell Pressure	kPa	310	310	310
Final pore water pressure	kPa	299.4	298.4	300.3
Final B Value		0.95	0.98	0.96



Consolidation Details	Drainage Conditions		From radial boundary and one end			
	Specimen No.		1	2	3	
	Cell Pressure applied		460	620	940	kPa
	Back Pressure applied		300	300	300	kPa
	Effective Pressure		160	320	640	kPa
	Pore pressure at start of consolidation		440	600	883	kPa
	Pore pressure at end of consolidation		300	300	302	kPa
	Pore pressure dissipation at end of consolidation		100	100	100	%
Consolidation parameters (see note to BS1377 : pt 8, clause 6.3.4)	Coefficient of Consolidation	C_{vi}	0.20	0.23	0.16	m^2/year
	Coefficient of Compressibility	M_{vi}	0.94	0.61	0.40	m^2/MN
	Coefficient of Permeability (calculated)	k_{vi}	5.8E-11	4.4E-11	2.0E-11	m/s

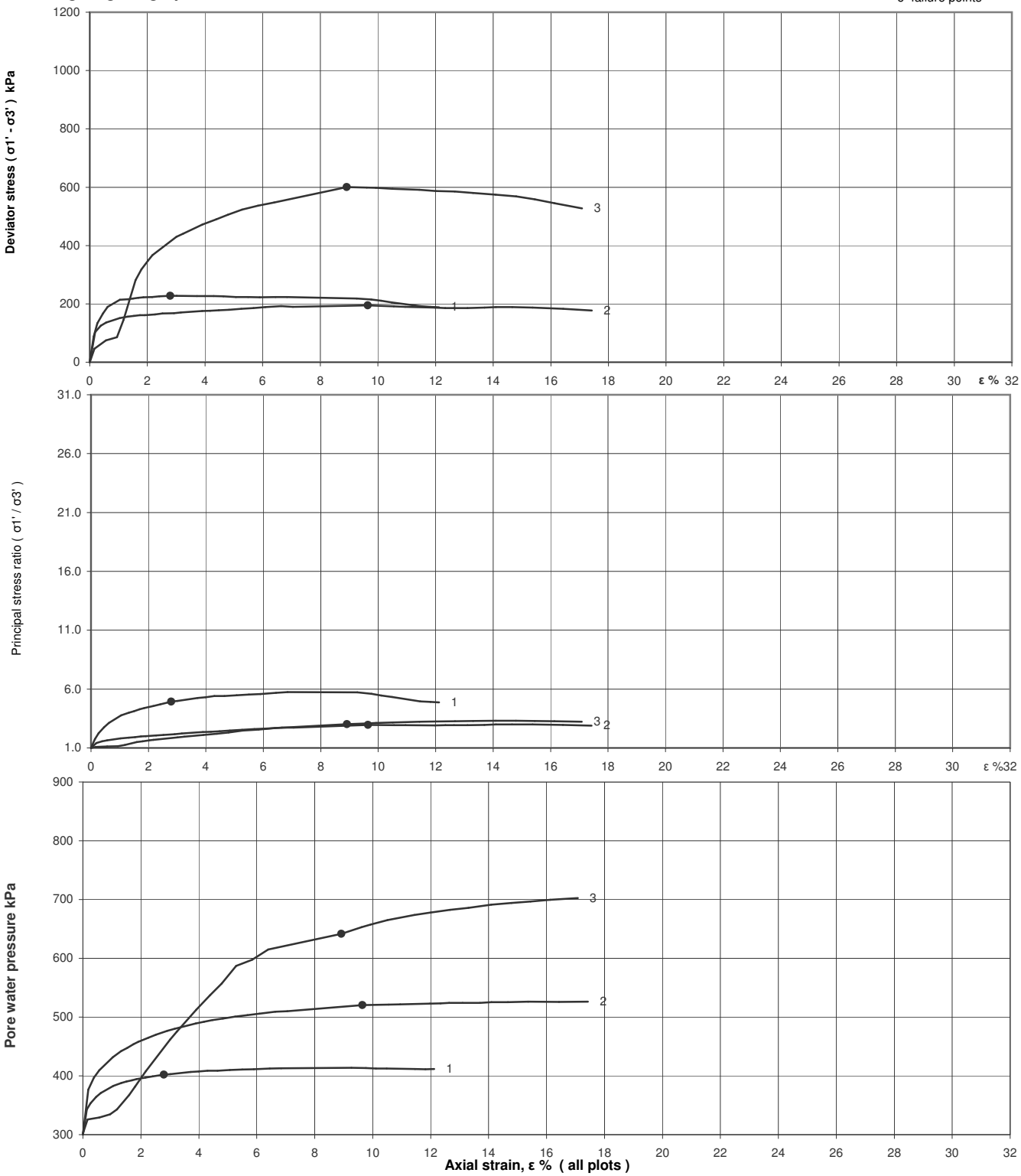


Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990)

Project No	N5110-15	Sample Details:	Hole No	BH202		
Project Name	(30766) LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	16.00-16.45		
			No	59	Type	UT
			ID			
			Spec Ref	16.20-16.40m		

Shearing stages - graphical data

o failure points

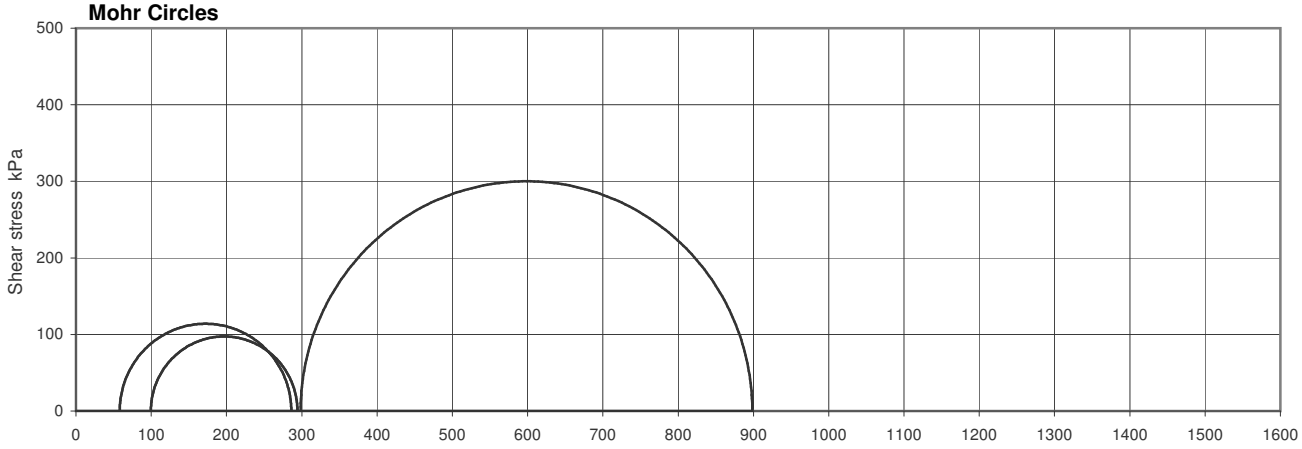


Ref			Figure
SLR8.1 Rev 85 May 09	ESG	Printed:06/10/2015 14:46	**CU** sheet 2 of 3

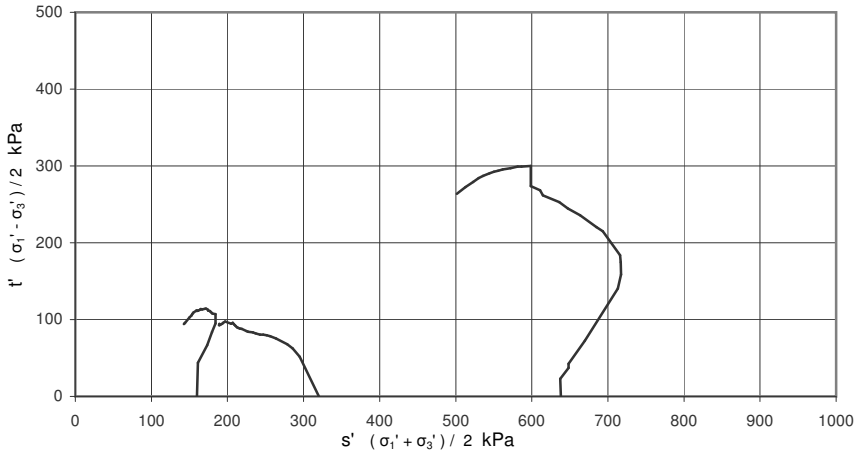
Consolidated Undrained Triaxial Compression test with Measurement of Pore Water Pressure
(BS1377 : Part 8 : 1990)

Project No	N5110-15	Sample Details:	Hole No	BH202		
Project Name	(30766) LONDON PARAMOUNT ENTERTAINMENT RESORT		Depth (m BGL)	16.00-16.45		
			No	59	Type	UT
			ID			
			Spec Ref	16.20-16.40m		

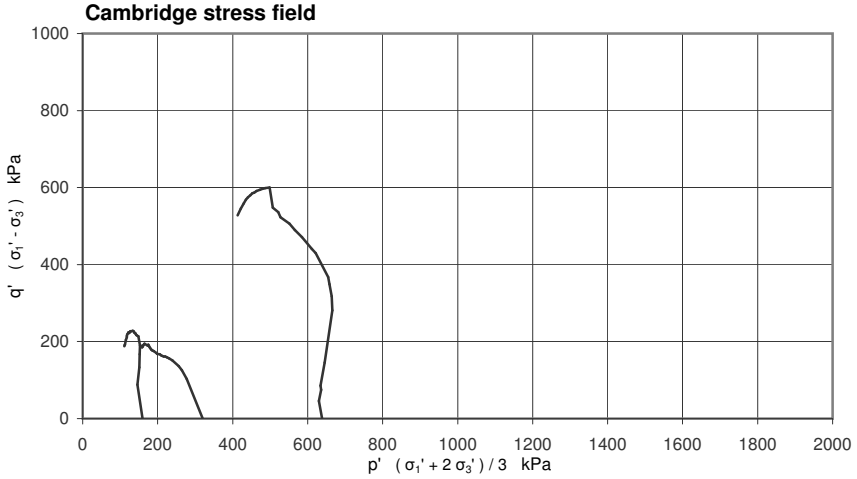
Mohr Circles



MIT Stress field



Cambridge stress field



Compression stages

Specimen	1	2	3	
Cell pressure	460	620	940	kPa
Initial pwp	300	300	302	kPa
Initial σ_3'	160	320	638	kPa
Rate of strain	0.99	0.99	0.99	%/hr

Failure conditions

Criterion	Maximum deviator stress			
Axial strain	2.80	9.65	8.92	%
$(\sigma_1' / \sigma_3')_f$	4.923	2.957	3.011	
$(\sigma_1' - \sigma_3')_f$	227.9	194.7	600.1	kPa
u_f	402	521	642	kPa
$\sigma_3'_f$	58	100	298	kPa
$\sigma_1'_f$	286	294	899	kPa
A_f	0.45	1.13	0.57	
Time to failure	2.8	9.8	9.0	hrs

Shear Strength Parameters

		Linear regression
c '	kPa	not assessed
Ø '	degrees	not assessed
		Manual re-assessment
c '	kPa	-
Ø '	degrees	-

Mode of failure

Notes : Deviator stresses corrected for area change, vertical side drains and 0.25 mm thick rubber membrane(s)

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UNIAXIAL COMPRESSIVE STRENGTH OF ROCK

I.S.R.M. Suggested Methods : 2007 Edition

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole no.	sample no./type	sample depth (m)	specimen depth (m)	diameter D (mm)	height H (mm)	H/D	moisture content (%)	bulk density (Mg/m³)	loading rate (kN/min)	time to failure (min:sec)	UCS (MPa)	description and coding test remarks
BH101	108Cs	35.95	35.95	99.0	216.4	2.19	28.2	1.93	10	01:53	2.00	White CHALK Ax
BH101	117Cs	41.50	41.50	100.5	222.8	2.22	24.5	1.90	5	02:05	2.30	White CHALK Ax
BH101	132Cs	58.44	58.44	99.5	237.3	2.39	18.9	1.95	2	08:09	2.70	White CHALK Ax
BH203	67Cs	26.75	26.80	115.0	215.0	1.87	24.9	2.02	10	4:12	3.60	White CHALK Ax
BH203	98Cs	38.10	38.10	115.0	201.0	1.75	25.8	1.96	10	2:46	2.60	White CHALK Ax
BH502	71Cs	19.20	19.30	87.0	208.0	2.39	25.9	1.96	5	3:22	2.80	White CHALK Ax

general remarks:

Sample obtained from vertically drilled core (unless specified).

Test machine - ELE 1500.

CODING

moisture condition :
N - natural moisture content
F - fully saturated
S - soaked
P - air/partially dried

sample storage :
U - sample not wrapped
F - sample wrapped in cling film/foil
W - sample waxed
G - sample contained in sealed Geoline

failure mode:
Ax - axial cleavage
Ca - cataclasis
Sh - shear
Ex - explosive

CONTRACT	CHECKED
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UNIAXIAL COMPRESSIVE STRENGTH OF ROCK - SUMMARY OF RESULTS

Project No	Project Name
N5110-15	LONDON PARAMOUNT ENTERTAINMENT RESORT

Hole No.	Sample				Rock Type	Type	Bulk Density[2]	Water Content[1]	Uniaxial Compression[3]				Remarks
	No.	Depth (m)		type					Load Rate	Time to failure	Mode of failure	UCS	
		from	to				Mg/m^3	%	kN/min	secs		MPa	
BH202	99	29.75	30.00	XS	CHALK	100mm^3	2.00	24.2	10	226	AC	3.11	Outside ISRM Specification

Notes :

Test Specification : International Society for Rock Mechanics, The complete ISRM suggested methods for Rock Characterization Testing and Monitoring, 2007

1 ISRM p87 test 1, water content at 105 ± 3 ^{o}C, specimen as received at the laboratory

2 ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density

3 ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials

above notes apply unless annotated otherwise in the remarks

Mode of failure :

S - Single shear MS - multiple shear

AC - Axial cleavage F - Fragmented

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POINT LOAD STRENGTH TEST RESULTS

I.S.R.M. SUGGESTED METHODS 2007 EDITION

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample depth (m)	test type	test orientation	moisture condition	width W (mm)	length L (mm)	platen sep. D (mm)	failure load P (kN)	equiv. dia. De (mm)	Is (MPa)	size factor F	Is(50) (MPa)	rock type
BH101	30.20	I	U	P	80	35	60	0.79	78.18	0.13	1.22	0.16	White CHALK
BH101	33.05	I	U	P	90	35	80	0.37	95.75	0.04	1.34	0.05	White CHALK
BH101	34.20	D	Y	P		40	100	0.20	100.00	0.02	1.37	0.03	White CHALK
BH101	34.20	A	X	P	100		65	0.35	90.97	0.04	1.31	0.06	White CHALK
BH101	35.70	I	Y	P	90	40	75	0.53	92.71	0.06	1.32	0.08	White CHALK
BH101	37.40	D	Y	P		100	90	0.78	90.00	0.10	1.30	0.12	White CHALK
BH101	37.40	A	X	P	90		120	0.91	117.26	0.07	1.47	0.10	White CHALK
BH101	38.85	D	Y	P		100	100	1.80	100.00	0.18	1.37	0.25	White CHALK
BH101	38.85	A	X	P	100		90	1.69	107.05	0.15	1.41	0.21	White CHALK
BH101	42.10	I	U	P	70	40	50	0.81	66.76	0.18	1.14	0.21	White CHALK
BH101	44.80	D	Y	P		40	100	0.51	100.00	0.05	1.37	0.07	White CHALK
BH101	44.80	A	X	P	100		50	0.69	79.79	0.11	1.23	0.13	White CHALK
BH101	60.00	D	Y	P		70	100	0.49	100.00	0.05	1.37	0.07	White CHALK
BH101	60.00	A	X	P	100		65	0.59	90.97	0.07	1.31	0.09	White CHALK
BH203	14.40	I	U	N	50	70	50	0.28	56.42	0.09	1.06	0.09	White CHALK
BH203	16.70	I	U	N	55	90	50	0.36	59.17	0.10	1.08	0.11	White CHALK
BH203	24.00	I	U	N	70	105	70	1.32	78.99	0.21	1.23	0.26	White CHALK
BH203	25.50	D	Y	N		145	120	3.17	120.00	0.22	1.48	0.33	White CHALK

remarks: Tests carried out in accordance with I.S.R.M.(2007): Suggested Methods for Determining Point Load Strength. Int. J. Rock Mech. Min. Sci. and Geotech. Abstr. Vol.22 No. 2.

test type:
D - diametral
A - axial
I - Irregular lump

test orientation relative to discontinuities:
X - perpendicular
Y - parallel
Z - oblique
U - unknown

moisture condition:
N - natural moisture content
P - partially air dried
S - soaked

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POINT LOAD STRENGTH TEST RESULTS

I.S.R.M. SUGGESTED METHODS 2007 EDITION

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample depth (m)	test type	test orientation	moisture condition	width W (mm)	length L (mm)	platen sep. D (mm)	failure load P (kN)	equiv. dia. De (mm)	Is (MPa)	size factor F	Is(50) (MPa)	rock type
BH203	25.50	A	X	N	120		70	1.90	103.42	0.18	1.39	0.25	White CHALK
BH203	25.80	I	U	N	40	90	40	0.73	45.14	0.36	0.95	0.34	White CHALK
BH203	26.70	I	U	N	80	110	80	1.57	90.27	0.19	1.30	0.25	White CHALK
BH203	27.90	D	Y	N		100	120	1.52	120.00	0.11	1.48	0.16	White CHALK
BH203	27.90	A	X	N	120		90	2.20	117.26	0.16	1.47	0.23	White CHALK
BH203	29.50	D	Y	N		120	115	1.31	115.00	0.10	1.45	0.14	White CHALK
BH203	29.50	A	X	N	115		100	1.48	121.01	0.10	1.49	0.15	White CHALK
BH203	30.95	D	Y	N		170	110	1.97	110.00	0.16	1.43	0.23	White CHALK
BH203	30.95	A	X	N	110		115	0.93	126.91	0.06	1.52	0.09	White CHALK
BH203	32.30	A	X	N	50		50	0.99	56.42	0.31	1.06	0.33	White CHALK
BH203	32.50	D	Y	N		150	120	1.92	120.00	0.13	1.48	0.20	White CHALK
BH203	32.50	A	X	N	120		90	1.11	117.26	0.08	1.47	0.12	White CHALK
BH203	35.20	I	U	N	80	115	50	0.39	71.36	0.08	1.17	0.09	White CHALK
BH203	36.00	I	U	N	70	110	60	0.70	73.13	0.13	1.19	0.15	White CHALK
BH203	36.75	D	Y	N		120	110	0.73	110.00	0.06	1.43	0.09	White CHALK
BH203	36.75	A	X	N	110		75	1.38	102.49	0.13	1.38	0.18	White CHALK
BH203	37.80	I	U	N	45	110	45	0.98	50.78	0.38	1.01	0.38	White CHALK
BH204	17.60	I	U	N	90	110	50	0.48	75.69	0.08	1.21	0.10	White CHALK

remarks: Tests carried out in accordance with I.S.R.M.(2007): Suggested Methods for Determining Point Load Strength. Int. J. Rock Mech. Min. Sci. and Geotech. Abstr. Vol.22 No. 2.

test type:
D - diametral
A - axial
I - Irregular lump

test orientation relative to discontinuities:
X - perpendicular U - unknown
Y - parallel
Z - oblique

moisture condition:
N - natural moisture content
P - partially air dried
S - soaked

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POINT LOAD STRENGTH TEST RESULTS

I.S.R.M. SUGGESTED METHODS 2007 EDITION

CLIENT LONDON RESORT COMPANY HOLDINGS LTD

SITE LONDON PARAMOUNT ENTERTAINMENT RESORT

borehole /trial pit no.	sample depth (m)	test type	test orientation	moisture condition	width W (mm)	length L (mm)	platen sep. D (mm)	failure load P (kN)	equiv. dia. De (mm)	Is (MPa)	size factor F	Is(50) (MPa)	rock type
BH204	17.70	I	U	N	100	130	70	0.54	94.41	0.06	1.33	0.08	White CHALK
BH204	19.90	I	U	N	90	110	65	0.52	86.30	0.07	1.28	0.09	White CHALK
BH501	18.60	I	U	P	95	110	60	0.53	85.19	0.07	1.27	0.09	White CHALK
BH501	19.85	I	U	P	95	100	60	0.66	85.19	0.09	1.27	0.11	White CHALK
BH502	18.20	D	Y	P		135	90	0.37	90.00	0.05	1.30	0.06	White CHALK
BH502	18.20	A	X	P	90		110	0.77	112.27	0.06	1.44	0.09	White CHALK
BH706	28.70	D	Y	N		125	85	0.41	85.00	0.06	1.27	0.07	Off white CHALK
BH706	28.70	A	X	N	85		70	0.21	87.04	0.03	1.28	0.03	Off white CHALK

remarks: Tests carried out in accordance with I.S.R.M.(2007): Suggested Methods for Determining Point Load Strength. Int. J. Rock Mech. Min. Sci. and Geotech. Abstr. Vol.22 No. 2.

test type:
D - diametral
A - axial
I - Irregular lump

test orientation relative to discontinuities:
X - perpendicular U - unknown
Y - parallel
Z - oblique

moisture condition:
N - natural moisture content
P - partially air dried
S - soaked

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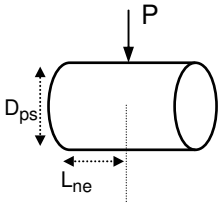
Point Load Index Test
ISRM:1985

Project No	Project Name
N5110-15	LONDON PARAMOUNT ENTERTAINMENT RESORT

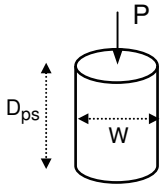
All specimens tested at **as received water content** unless shown otherwise

Test Type
D - Diametral, A - Axial, I - Irregular Lump, B - Block
Direction (U = unknown or random)
L - parallel to planes of weakness
P - perpendicular to planes of weakness
Dimensions
D_{ps} - Distance between platens (platen separation)
D_{ps}' - at failure (see ISRM note 6)
L_{ne} - Length from platens to nearest free end
W - Width of shortest dimension perpendicular to load, P

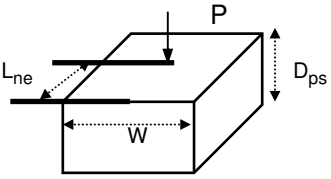
Diametral



Axial



Block/irregular lump



Borehole	Depth, m	Sample Ref	Sample Type	Specimen Ref	Specimen Depth	Rock type	Test Type see ISRM Fig 5 and 8		Failure Valid (Y/N)	Dimensions				LOAD P	De equivalent diameter, mm	Point Load Index MPa $F = (De/50)^{0.45}$		Remarks
							Type (D, A, I, B)	Direction (L, P or U)		Lne mm	W mm	Dps mm	Dps' mm	kN		I_s	$I_{s(50)}$	
BH202	26.95	90	XS			CHALK	I	U	Y	40.0	63.2	49.0	44.0	0.50	59.50	0.14	0.15	

QA Ref			Figure
RLR 104 Rev 65 May 12	ESG Environmental Scientifics Group	Printed:07/09/2015 12:35	**PLT**

UKAS TESTING 1157

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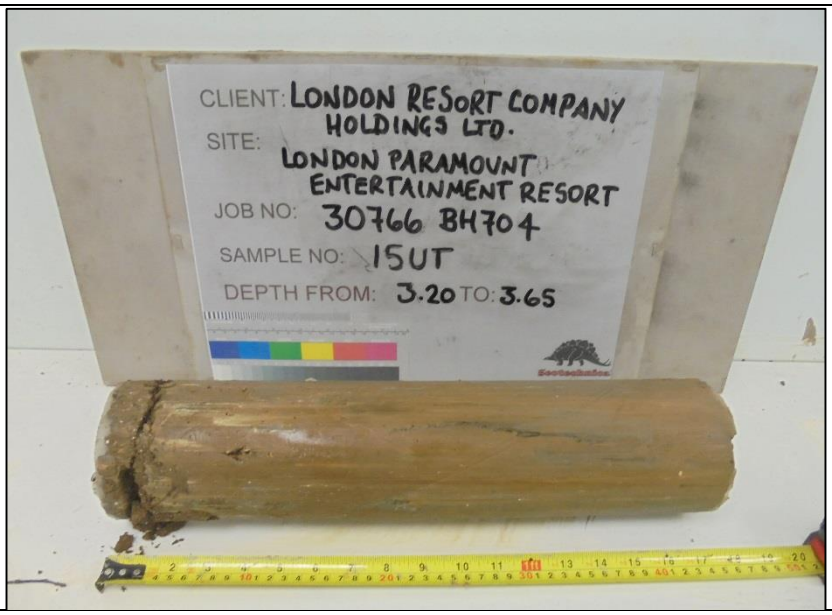
SPLIT AND DESCRIBE

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD	BH/TP No.	BH704
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	15UT
DESCRIPTION	Soft brown slightly sandy slightly gravelly CLAY with rare rootlets. Gravel is fine to coarse flint and white chalk.	DEPTH FROM (m)	3.20
		DEPTH TO (m)	3.65

DATE	21-July-2015	LOGGED BY	CA

PHOTOGRAPHS

BEFORE



AFTER

REMARKS

CONTRACT	CHECKED
30766	**CA**

Geotechnical Engineering Limited

SPLIT AND DESCRIBE

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD.	BH/TP No.	BH707
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	58UT
DESCRIPTION	White, orange stained, structureless CHALK containing weak, fine to medium, subrounded gravel.	DEPTH FROM (m)	13.20m
		DEPTH TO (m)	13.70m

DATE	28.06.2015	LOGGED BY	EL

PHOTOGRAPHS

BEFORE

AFTER

REMARKS

CONTRACT	CHECKED
30766	**CA**

Geotechnical Engineering Limited

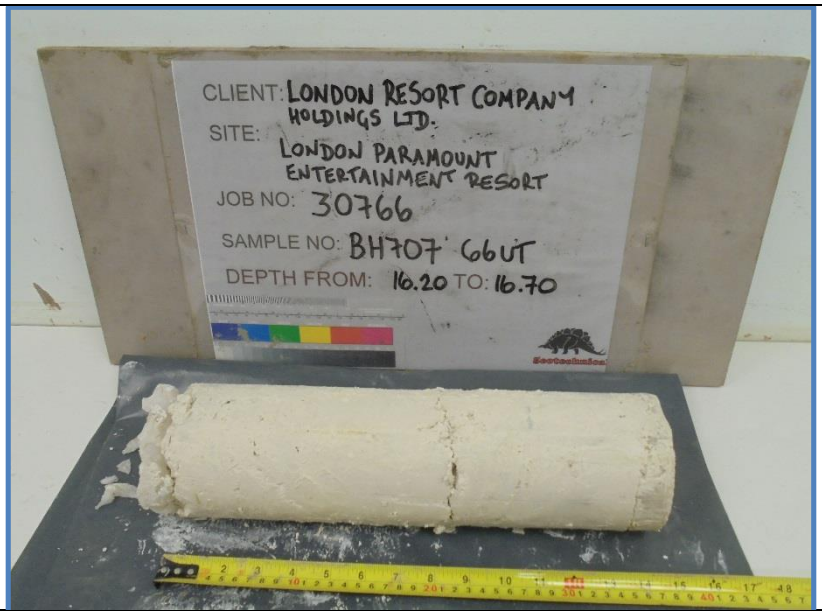
SPLIT AND DESCRIBE

CLIENT:	LONDON RESORT COMPANY HOLDINGS LTD.	BH/TP No.	BH707
SITE:	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	66UT
DESCRIPTION:	White, orange stained structureless CHALK containing extremely weak clasts of fine to coarse gravel.	DEPTH FROM (m)	16.20m
		DEPTH TO (m)	16.70m

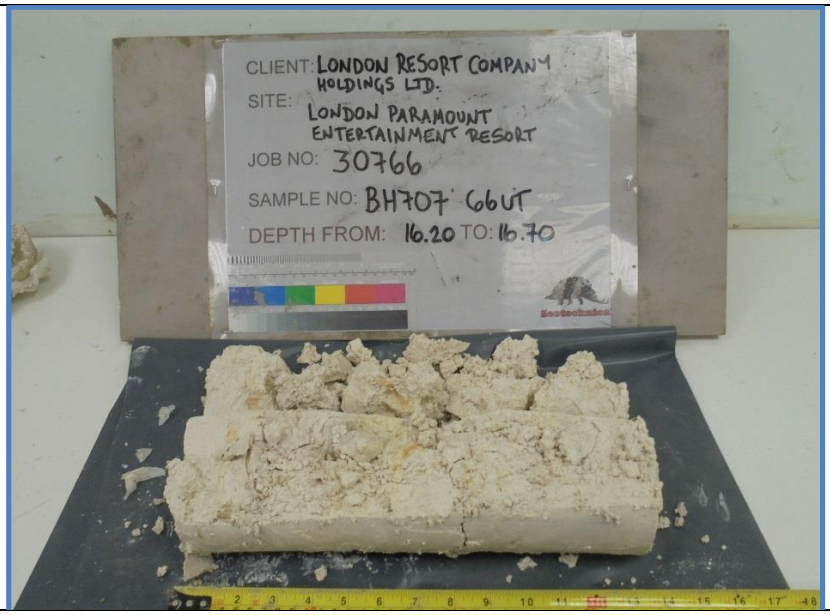
DATE	28.06.2015	LOGGED BY	EL

PHOTOGRAPHS

BEFORE



AFTER



REMARKS

CONTRACT	CHECKED
30766	**CA**

Geotechnical Engineering Limited

SPLIT AND DESCRIBE

CLIENT	LONDON RESORT COMPANY HOLDINGS LTD.	BH/TP No.	BH708
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	48UT
DESCRIPTION	Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium flint.	DEPTH FROM (m)	9.20
		DEPTH TO (m)	9.65

DATE	21-July-2015	LOGGED BY	CA

PHOTOGRAPHS

BEFORE

AFTER

REMARKS

CONTRACT	CHECKED
30766	**CA**

Geotechnical Engineering Limited

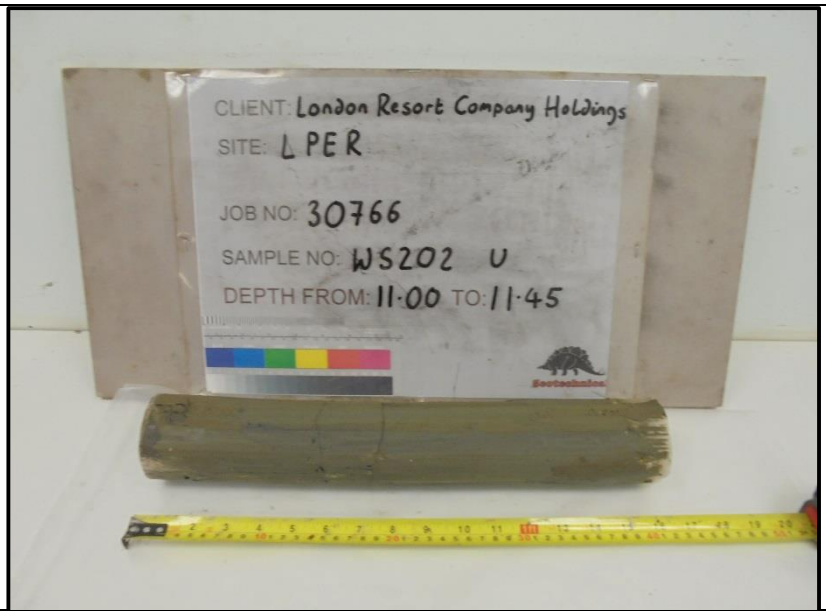
SPLIT AND DESCRIBE

CLIENT	LONDON PARAMOUNT COMPANY HOLDINGS LTD.	BH/TP No.	WS202
SITE	LONDON PARAMOUNT ENTERTAINMENT RESORT	SAMPLE No./TYPE	U
DESCRIPTION	Firm dark greenish grey CLAY with rare rootlets. Locally mottled black, orange and pale yellow. Poorly cemented fine CKD at top.	DEPTH FROM (m)	11.00
		DEPTH TO (m)	11.45

DATE	18-Aug-2015	LOGGED BY	CA

PHOTOGRAPHS

BEFORE



AFTER

REMARKS

CONTRACT	CHECKED
30766	**CA**

CHEMICAL TESTS - SUMMARY OF RESULTS

Project No	Project Name
N5110-15	LONDON PARAMOUNT ENTERTAINMENT RESORT

Hole No.	Sample No.	Depth (m) from	Depth (m) to	type	Soil Description	Org %	LOI %	pH	Sulphate as SO_4 Preparation/test *	Sulphate as SO_4 2:1 water sol. g/L	Sulphate as SO_4 ground water g/L	Sulphate as SO_4 acid sol. %	SD1 options TS %	SD1 options Mg mg/L NO_3 mg/L NH_4	CO_2 %	Chloride, Cl water sol. %	Chloride, Cl acid sol. %	<2 mm %	Remarks
BH101	17	3.00	3.20	B	Grey sandy GRAVEL.	1.7 c												30	
BH202	32	8.00	8.20	B	Grey slightly sandy slightly gravelly CLAY.	0.2 c												100	

BS 1377 : definitive method unless stated :

- Org Organic matter content (s-sulphides, c-chlorides identified)
- LOI Mass loss on ignition at 440°C
- CO_2 Carbonate content (rapid titration)
- Cl Chloride content

* Sulphate tests preparation / test methods :

1. BS 1377:Part 3:1990:clause 5.3
2. BS 1377:Part 3:1990:clause 5.4
3. BS 1377:Part 3:1990:clause 5.5
4. TRL447 - 1 water soluble sulphate
5. TRL447 - 2 acid soluble sulphate
6. BR279 - groundwater sulphate

< 2mm material passing 2mm sieve

BRE Special Digest SD1, dependent options :

- TS Total Sulphur to BR279 / EN ISO15178
- Mg Soluble Magnesium to BR279, colorimetric
- NO3 Soluble Nitrate to BR279, colorimetric
- NH_4 qualitative

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report Number:	15-16597 Issue-1
Initial Date of Issue:	23-Jul-2015
Client:	Geotechnical Engineering Ltd
Client Address:	Centurion House Olympus Park Quedgeley Gloucester Gloucestershire GL2 4NF
Contact(s):	Claire Andrew
Project:	30766 London Paramount Entertainment Resort

Quotation No.:		**Date Received:**	21-Jul-2015
Order No.:		**Date Instructed:**	21-Jul-2015
No. of Samples:	3	**Target Due Date:**	23-Jul-2015
Turnaround: (Wkdays)	5	**Results Due Date:**	27-Jul-2015

Date Approved: 23-Jul-2015

Approved By:

Details: Keith Jones, Technical Manager

Results Summary - Soil

Project: 30766 London Paramount Entertainment Resort

Client: Geotechnical Engineering Ltd							
				Chemtest Job No.:	15-16597	15-16597	15-16597
Quotation No.:				**Chemtest Sample ID.:**	167488	167489	167490
Order No.:				Client Sample Ref.:	BH101	BH101	BH101
				Client Sample ID.:	27B	39B	59B
				Sample Type:	SOIL	SOIL	SOIL
				Top Depth (m):	6.0	9.0	14.0
				Bottom Depth(m):			
				Date Sampled:	20-Jul-15	20-Jul-15	20-Jul-15
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Moisture	N	2030	%	0.02	63	42	19
Organic Matter	U	2625	%	0.4	19	5.2	0.86

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"

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, SVCOs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at our Coventry 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

Sample Retention and Disposal

All soil samples will be retained for a period of 60 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

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

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Analytical Report Number : 15-75255

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	13/07/2015
Your job number:	30766 BH202	**Samples instructed on:**	13/07/2015
Your order number:		**Analysis completed by:**	17/07/2015
Report Issue Number:	1	**Report issued on:**	17/07/2015
Samples Analysed:	3 soil samples		

Signed:

Colin Everett
Senior Analyst
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-75255

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				464705	464706	464707		
Sample Reference				BH202 44B	BH202 53B	BH202 64D		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				10.60	14.00	17.50		
Date Sampled				09/07/2015	10/07/2015	11/07/2015		
Time Taken				1400	1410	1430		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	59	45	13		
Total mass of sample received	kg	0.001	NONE	0.20	0.22	0.15		
General Inorganics								
Organic Matter	%	0.1	MCERTS	9.8	7.8	2.5		

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Analytical Report Number : 15-75255

Project / Site name: London Paramount Entertainment Resort

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
464705	BH202 44B	None Supplied	10.60	Grey clay.
464706	BH202 53B	None Supplied	14.00	Grey clay.
464707	BH202 64D	None Supplied	17.50	Grey clay.

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Analytical Report Number : 15-75255

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-76182

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	29/07/2015
Your job number:	30766 BH203	**Samples instructed on:**	29/07/2015
Your order number:		**Analysis completed by:**	03/08/2015
Report Issue Number:	1	**Report issued on:**	03/08/2015
Samples Analysed:	1 soil sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Analytical Report Number: 15-76182

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470308				
Sample Reference				BH203 17B				
Sample Number				None Supplied				
Depth (m)				5.00				
Date Sampled				28/07/2015				
Time Taken				0930				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	35				
Total mass of sample received	kg	0.001	NONE	2.0				
General Inorganics								
Organic Matter	%	0.1	MCERTS	3.9				

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Analytical Report Number : 15-76182

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
470308	BH203 17B	None Supplied	5.00	Light grey clay.

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Analytical Report Number : 15-76182

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-76372

Project / Site name:	London Paramount Enertainment Resort	**Samples received on:**	31/07/2015
Your job number:	30766 BH204	**Samples instructed on:**	31/07/2015
Your order number:		**Analysis completed by:**	06/08/2015
Report Issue Number:	1	**Report issued on:**	06/08/2015
Samples Analysed:	2 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-76372

Project / Site name: London Paramount Enertainment Resort

Lab Sample Number				471495	471496			
Sample Reference				BH204 16B	BH204 27B			
Sample Number				None Supplied	None Supplied			
Depth (m)				4.00	7.00			
Date Sampled				30/07/2015	30/07/2015			
Time Taken				0900	0900			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	19	11			
Total mass of sample received	kg	0.001	NONE	0.23	0.23			
General Inorganics								
pH	pH Units	N/A	MCERTS	7.3	-			
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	1.4	-			
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	1400	-			
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.68	-			
Organic Matter	%	0.1	MCERTS	4.3	0.4			

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Analytical Report Number : 15-76372

Project / Site name: London Paramount Enertainment Resort

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
471495	BH204 16B	None Supplied	4.00	Black clay.
471496	BH204 27B	None Supplied	7.00	Light grey clay.

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Analytical Report Number : 15-76372

Project / Site name: London Paramount Enertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-75265

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	13/07/2015
Your job number:	30766 BH501	**Samples instructed on:**	13/07/2015
Your order number:		**Analysis completed by:**	17/07/2015
Report Issue Number:	1	**Report issued on:**	17/07/2015
Samples Analysed:	1 soil sample		

Signed:

Neil Donovan
Environmental Forensics Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-75265

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				464746				
Sample Reference				BH501 40X				
Sample Number				None Supplied				
Depth (m)				7.40				
Date Sampled				10/07/2015				
Time Taken				0615				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	6.8				
Total mass of sample received	kg	0.001	NONE	0.29				
General Inorganics								
pH	pH Units	N/A	NONE	9.7				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	NONE	0.56				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	NONE	560				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	NONE	0.28				

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Analytical Report Number : 15-75265

Project / Site name: London Paramount Entertainment Resort

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
464746	BH501 40X	None Supplied	7.40	White chalk with rubble.**

**Non MCERTS matrix

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 15-75265

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-76032

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	27/07/2015
Your job number:	30766 BH502	**Samples instructed on:**	27/07/2015
Your order number:		**Analysis completed by:**	30/07/2015
Report Issue Number:	1	**Report issued on:**	30/07/2015
Samples Analysed:	1 soil sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-76032

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				469369				
Sample Reference				BH502 27X				
Sample Number				None Supplied				
Depth (m)				5.60				
Date Sampled				23/07/2015				
Time Taken				1630				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	12				
Total mass of sample received	kg	0.001	NONE	0.23				
General Inorganics								
pH	pH Units	N/A	NONE	8.7				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	NONE	0.15				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	NONE	150				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	NONE	0.074				

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Analytical Report Number : 15-76032

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
469369	BH502 27X	None Supplied	5.60	White chalk. **

** Non MCerts Matrix

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Analytical Report Number : 15-76032

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74049

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	23/06/2015
Your job number:	30766 BH703	**Samples instructed on:**	23/06/2015
Your order number:		**Analysis completed by:**	29/06/2015
Report Issue Number:	1	**Report issued on:**	29/06/2015
Samples Analysed:	1 soil sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74049

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457514				
Sample Reference				BH703 5B				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				22/06/2015				
Time Taken				0930				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	15				
Total mass of sample received	kg	0.001	NONE	0.57				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.3				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.20				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	200				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.10				

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Analytical Report Number : 15-74049

Project / Site name: London Paramount Entertainment Resort

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
457514	BH703 5B	None Supplied	1.00	Light brown sandy clay with gravel and chalk.

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Analytical Report Number : 15-74049

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74914

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	08/07/2015
Your job number:	30766 BH704	**Samples instructed on:**	08/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	2 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74914

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462872	462873			
Sample Reference				BH704 23D	BH704 16D			
Sample Number				None Supplied	None Supplied			
Depth (m)				4.60	3.65			
Date Sampled				07/07/2015	07/07/2015			
Time Taken				0930	0930			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	15	15			
Total mass of sample received	kg	0.001	NONE	0.21	0.25			
General Inorganics								
pH	pH Units	N/A	MCERTS	7.9	-			
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.068	-			
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	68	-			
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.034	-			
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	42	-			
Organic Matter	%	0.1	MCERTS	-	< 0.1			
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	-			
Heavy Metals / Metalloids								
Magnesium (water soluble)	mg/kg	5	NONE	11	-			

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Analytical Report Number : 15-74914

Project / Site name: London Paramount Entertainment Resort

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
462872	BH704 23D	None Supplied	4.60	Grey clay.
462873	BH704 16D	None Supplied	3.65	Light brown clay.

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Analytical Report Number : 15-74914

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74051

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	23/06/2015
Your job number:	30766 BH707	**Samples instructed on:**	25/06/2015
Your order number:		**Analysis completed by:**	01/07/2015
Report Issue Number:	1	**Report issued on:**	01/07/2015
Samples Analysed:	1 soil sample		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74051

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457530				
Sample Reference				BH707 8X				
Sample Number				None Supplied				
Depth (m)				1.30-1.50				
Date Sampled				22/06/2015				
Time Taken				1045				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	12				
Total mass of sample received	kg	0.001	NONE	1.3				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.0				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	1.1				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	1100				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.54				

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Analytical Report Number : 15-74051

Project / Site name: London Paramount Entertainment Resort

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
457530	BH707 8X	None Supplied	1.30-1.50	Brown clay and loam with chalk.

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Analytical Report Number : 15-74051

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-75864

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	23/07/2015
Your job number:	30766 TP702	**Samples instructed on:**	23/07/2015
Your order number:		**Analysis completed by:**	29/07/2015
Report Issue Number:	1	**Report issued on:**	29/07/2015
Samples Analysed:	1 soil sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-75864

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				468519				
Sample Reference				TP702 7B				
Sample Number				None Supplied				
Depth (m)				1.50				
Date Sampled				22/07/2015				
Time Taken				0830				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	11				
Total mass of sample received	kg	0.001	NONE	0.47				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.0				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.17				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	170				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.086				

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Analytical Report Number : 15-75864

Project / Site name: London Paramount Entertainment Resort

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Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
468519	TP702 7B	None Supplied	1.50	Light brown clay and loam.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 15-75864

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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APPENDIX C

CHEMICAL ANALYSES

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Analytical Report Number : 15-77208

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	14/08/2015
Your job number:	30766	**Samples instructed on:**	14/08/2015
Your order number:		**Analysis completed by:**	24/08/2015
Report Issue Number:	1	**Report issued on:**	24/08/2015
Samples Analysed:	4 water samples		

Signed:

Neil Donovan
Environmental Forensics Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-77208

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				476304	476305	476306	476307	
Sample Reference				BH706	DUPLICATE B	BH707	BH705	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				6.46	None Supplied	11.03	2.77	
Date Sampled				14/08/2015	14/08/2015	14/08/2015	14/08/2015	
Time Taken				0900	0900	0925	1030	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.8	7.7	7.5	7.4	
Electrical Conductivity	µS/cm	10	NONE	1200	1200	1300	1100	
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10	< 10	
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Sulphate as SO_4	µg/l	45	ISO 17025	141000	113000	322000	137000	
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	
Chloride	mg/l	0.15	ISO 17025	140	140	190	140	
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	62	110	240	110	
Nitrate as N	mg/l	0.01	ISO 17025	22.9	22.6	9.04	26.0	
Nitrate as NO_3	mg/l	0.05	ISO 17025	101	100	40.1	115	
Nitrite as N	µg/l	1	ISO 17025	16	21	230	32	
Nitrite as NO_2	µg/l	5	ISO 17025	53	69	750	110	
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	7.2	6.4	27	15	
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	4.2	4.7	73	73	
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	23	23	9.3	26	
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.4	1.2	1.2	1.2	
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.23	0.23	0.57	0.31	
Barium (dissolved)	µg/l	0.06	ISO 17025	63	82	53	67	
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	
Boron (dissolved)	µg/l	10	ISO 17025	42	42	47	36	
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.02	0.02	0.05	0.02	
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.3	0.4	< 0.2	< 0.2	
Copper (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	0.6	0.9	
Iron (dissolved)	mg/l	0.004	ISO 17025	0.38	0.039	0.076	0.042	
Lead (dissolved)	µg/l	0.2	ISO 17025	23	20	< 0.2	< 0.2	
Manganese (dissolved)	µg/l	0.05	ISO 17025	20	25	560	170	
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.21	0.17	0.16	0.12	
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	0.35	0.38	9.4	0.82	
Nickel (dissolved)	µg/l	0.5	ISO 17025	1.7	2.8	26	4.8	
Selenium (dissolved)	µg/l	0.6	ISO 17025	2.9	2.6	4.6	3.0	
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.3	0.4	< 0.2	0.4	
Zinc (dissolved)	µg/l	0.5	ISO 17025	1.9	3.0	1.7	< 0.5	
Calcium (dissolved)	mg/l	0.012	ISO 17025	220	170	240	230	
Magnesium (dissolved)	mg/l	0.005	ISO 17025	11	11	12	7.1	
Potassium (dissolved)	mg/l	0.025	ISO 17025	4.0	4.1	2.9	3.4	
Phosphorus (total)	µg/l	20	ISO 17025	790	760	3800	4300	

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Analytical Report Number: 15-77208

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				476304	476305	476306	476307	
Sample Reference				BH706	DUPLICATE B	BH707	BH705	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				6.46	None Supplied	11.03	2.77	
Date Sampled				14/08/2015	14/08/2015	14/08/2015	14/08/2015	
Time Taken				0900	0900	0925	1030	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	

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Analytical Report Number: 15-77208

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				476304	476305	476306	476307	
Sample Reference				BH706	DUPLICATE B	BH707	BH705	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				6.46	None Supplied	11.03	2.77	
Date Sampled				14/08/2015	14/08/2015	14/08/2015	14/08/2015	
Time Taken				0900	0900	0925	1030	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	

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Analytical Report Number: 15-77208

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				476304	476305	476306	476307	
Sample Reference				BH706	DUPLICATE B	BH707	BH705	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				6.46	None Supplied	11.03	2.77	
Date Sampled				14/08/2015	14/08/2015	14/08/2015	14/08/2015	
Time Taken				0900	0900	0925	1030	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-77208

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 15-77208

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-77128

Replaces Analytical Report Number : 15-77128, issue no. 1

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	13/08/2015
Your job number:	30766	**Samples instructed on:**	13/08/2015
Your order number:		**Analysis completed by:**	24/08/2015
Report Issue Number:	2	**Report issued on:**	24/08/2015
Samples Analysed:	7 water samples		

Signed:

Dee Theis
Operations Director
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-77128

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475816	475817	475818	475819	475820
Sample Reference				BH502	Duplicate A	BH708	BH204	BH203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				12.09	12.09	16.12	3.08	2.82
Date Sampled				13/08/2015	13/08/2015	13/08/2015	13/08/2015	13/08/2015
Time Taken				1130	1130	1215	0945	1030
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.2	7.3	7.4	7.7	7.7
Electrical Conductivity	µS/cm	10	NONE	4000	4000	1500	1600	3000
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO_4	µg/l	45	ISO 17025	500000	483000	227000	95200	1060000
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	0.15	ISO 17025	920	880	120	200	250
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	< 15	< 15	< 15	1400	1800
Nitrate as N	mg/l	0.01	ISO 17025	29.9	28.4	19.2	0.32	0.32
Nitrate as NO_3	mg/l	0.05	ISO 17025	132	126	85.1	1.40	1.40
Nitrite as N	µg/l	1	ISO 17025	14	10	4.0	3.0	13
Nitrite as NO_2	µg/l	5	ISO 17025	46	33	13	9.9	43
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	14	20	5.6	58	53
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	5.3	6.6	3.3	16	5.6
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	30	28	19	0.3	0.3
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

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Analytical Report Number: 15-77128

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475816	475817	475818	475819	475820
Sample Reference				BH502	Duplicate A	BH708	BH204	BH203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				12.09	12.09	16.12	3.08	2.82
Date Sampled				13/08/2015	13/08/2015	13/08/2015	13/08/2015	13/08/2015
Time Taken				1130	1130	1215	0945	1030
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0026	0.0032	0.0046	0.0120	0.0518
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.3	1.1	0.8	1.3	1.8
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.70	0.74	0.48	2.57	2.87
Barium (dissolved)	µg/l	0.06	ISO 17025	66	65	48	50	160
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron (dissolved)	µg/l	10	ISO 17025	480	470	36	290	480
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.03	< 0.02	0.03	< 0.02	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	22	22	0.9	0.5	0.7
Copper (dissolved)	µg/l	0.5	ISO 17025	4.9	4.3	2.7	4.2	4.3
Iron (dissolved)	mg/l	0.004	ISO 17025	< 0.004	0.064	0.011	0.097	0.012
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	0.2	0.4
Manganese (dissolved)	µg/l	0.05	ISO 17025	12	11	10	880	1100
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.38	0.31	0.06	0.28	0.28
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	4.3	4.4	0.38	12	7.2
Nickel (dissolved)	µg/l	0.5	ISO 17025	4.7	4.7	2.2	5.3	8.8
Selenium (dissolved)	µg/l	0.6	ISO 17025	18	17	2.8	3.4	10
Vanadium (dissolved)	µg/l	0.2	ISO 17025	2.0	2.1	0.4	0.7	0.9
Zinc (dissolved)	µg/l	0.5	ISO 17025	18	12	1.6	6.6	2.9
Calcium (dissolved)	mg/l	0.012	ISO 17025	350	370	210	86	380
Magnesium (dissolved)	mg/l	0.005	ISO 17025	20	19	18	37	77
Potassium (dissolved)	mg/l	0.025	ISO 17025	74	72	5.2	21	50
Phosphorus (total)	µg/l	20	ISO 17025	190	750	600	100	70
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

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Analytical Report Number: 15-77128

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475816	475817	475818	475819	475820
Sample Reference				BH502	Duplicate A	BH708	BH204	BH203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				12.09	12.09	16.12	3.08	2.82
Date Sampled				13/08/2015	13/08/2015	13/08/2015	13/08/2015	13/08/2015
Time Taken				1130	1130	1215	0945	1030
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 15-77128

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475816	475817	475818	475819	475820
Sample Reference				BH502	Duplicate A	BH708	BH204	BH203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				12.09	12.09	16.12	3.08	2.82
Date Sampled				13/08/2015	13/08/2015	13/08/2015	13/08/2015	13/08/2015
Time Taken				1130	1130	1215	0945	1030
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number: 15-77128

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475821	475822			
Sample Reference				BH501	BH703			
Sample Number				None Supplied	None Supplied			
Depth (m)				11.74	4.73			
Date Sampled				13/08/2015	13/08/2015			
Time Taken				1120	1230			
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.5	7.7			
Electrical Conductivity	µS/cm	10	NONE	1100	1500			
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10			
Complex Cyanide	µg/l	10	NONE	< 10	< 10			
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10			
Sulphate as SO_4	µg/l	45	ISO 17025	124000	329000			
Sulphide	µg/l	5	NONE	< 5.0	< 5.0			
Chloride	mg/l	0.15	ISO 17025	60	120			
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	< 15	< 15			
Nitrate as N	mg/l	0.01	ISO 17025	18.1	7.16			
Nitrate as NO_3	mg/l	0.05	ISO 17025	80.2	31.7			
Nitrite as N	µg/l	1	ISO 17025	4.0	30			
Nitrite as NO_2	µg/l	5	ISO 17025	13	99			
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	5.9	4.3			
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	5.5	3.0			
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	18	7.2			
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10			
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01			
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2			
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2			

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Analytical Report Number: 15-77128

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475821	475822			
Sample Reference				BH501	BH703			
Sample Number				None Supplied	None Supplied			
Depth (m)				11.74	4.73			
Date Sampled				13/08/2015	13/08/2015			
Time Taken				1120	1230			
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0172	0.0058			
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.4	1.0			
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.61	0.22			
Barium (dissolved)	µg/l	0.06	ISO 17025	45	110			
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1			
Boron (dissolved)	µg/l	10	ISO 17025	120	48			
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.03	< 0.02			
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.8	0.4			
Copper (dissolved)	µg/l	0.5	ISO 17025	4.5	4.3			
Iron (dissolved)	mg/l	0.004	ISO 17025	< 0.004	0.006			
Lead (dissolved)	µg/l	0.2	ISO 17025	7.5	< 0.2			
Manganese (dissolved)	µg/l	0.05	ISO 17025	4.7	130			
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.37	0.20			
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	0.92	1.5			
Nickel (dissolved)	µg/l	0.5	ISO 17025	3.1	3.0			
Selenium (dissolved)	µg/l	0.6	ISO 17025	3.6	3.0			
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.9	0.3			
Zinc (dissolved)	µg/l	0.5	ISO 17025	3.6	0.7			
Calcium (dissolved)	mg/l	0.012	ISO 17025	160	200			
Magnesium (dissolved)	mg/l	0.005	ISO 17025	10	11			
Potassium (dissolved)	mg/l	0.025	ISO 17025	13	48			
Phosphorus (total)	µg/l	20	ISO 17025	430	3000			
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0			
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10			

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Analytical Report Number: 15-77128

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475821	475822			
Sample Reference				BH501	BH703			
Sample Number				None Supplied	None Supplied			
Depth (m)				11.74	4.73			
Date Sampled				13/08/2015	13/08/2015			
Time Taken				1120	1230			
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0			
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0			
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0			
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0			
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0			
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0			

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Analytical Report Number: 15-77128

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475821	475822			
Sample Reference				BH501	BH703			
Sample Number				None Supplied	None Supplied			
Depth (m)				11.74	4.73			
Date Sampled				13/08/2015	13/08/2015			
Time Taken				1120	1230			
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05			
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05			
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05			
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05			
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05			
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05			
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05			
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05			
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05			
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05			
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05			
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05			
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05			
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05			
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05			
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05			
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05			
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05			
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05			
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05			
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05			
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05			
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05			
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05			
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05			
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05			
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05			
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05			
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05			
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05			
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05			
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05			
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05			
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05			
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02			
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05			
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05			
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05			
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05			
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01			

U/S = Unsuitable Sample I/S = Insufficient Sample

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 15-77128

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE

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Analytical Report Number : 15-77128

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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The results included within the report are representative of the samples submitted for analysis.

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Analytical Report Number : 15-77040

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	12/08/2015
Your job number:	30766	**Samples instructed on:**	12/08/2015
Your order number:		**Analysis completed by:**	20/08/2015
Report Issue Number:	1	**Report issued on:**	20/08/2015
Samples Analysed:	4 water samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-77040

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475326	475327	475328	475329	
Sample Reference				SW01	SW02	SW03	SW05	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	
Date Sampled				12/08/2015	12/08/2015	12/08/2015	12/08/2015	
Time Taken				1040	1145	1015	1115	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	8.6	7.9	8.0	7.8	
Turbidity	NTU	1	NONE	< 1	< 1	< 1	< 1	
Nitrate as N	mg/l	0.01	ISO 17025	4.36	0.56	1.00	7.24	
Nitrate as NO_3	mg/l	0.05	ISO 17025	19.3	2.49	4.42	32.1	
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	1.4	1.8	3.4	1.3	
Total Dissolved Solids (Gravimetric)	mg/l	4	NONE	3100	3700	3000	540	
Dissolved Oxygen	mg/l	1	NONE	7.0	6.9	5.5	7.9	
Heavy Metals / Metalloids								
Phosphorus (dissolved)	µg/l	30	ISO 17025	< 30.0	505	50.5	< 30.0	
Microbiological (Subcontracted)								
Faecal Coliforms	mpn/100ml	N/A	NONE	15	816	37	81	

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-77040

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Dissolved Oxygen in water	Determination of dissolved oxygen.	In-house method	L086-PL	W	NONE
Faecal Coliforms Subcon Stansted Labs	Subcontracted.	Subcontracted analysis		W	NONE
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Total dissolved solids in water (Gravimetric)	Determination of total dissolved solids in water by gravimetry.	In house method based on BSEN 15216:2007	L004-PL	W	NONE
Turbidity of in water	Determination of sample turbidity by colorimeter and comparison with standard reference samples.	In-house method based on Standard Method 8237	L083-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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BACTERIOLOGICAL TEST REPORT

Client	**i2 Analytical LTD**	**Job Number:**	**M/182/22045**
Address:	7 Woodshots Meadow Croxley Green Business Park Croxley Green Hertfordshire WD18 8YS	**Report No:**	**22967.1**
		Date Taken:	Wed, Aug 12th, 2015
		Date Rec'd:	Fri, Aug 14th, 2015
Site:	15-77040		
FAO:	Trevor Hill		
Order No:	7378 15-77040		

UKAS TESTING
2266

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Directors: B. Patel, K.Patel

Items Marked ¤ are not included in the UKAS Schedule

Sample ID	Description & Temperatures			Analysis	Result	Tested	Notes / Species
SL116313	475326			Faecal Coliforms ¤	**15 MPN/100ml**	14/08/2015	
Water - Open	**Init Temp**	**Temp > 1 Min**	**Temp > 2 Min**				
	---	---	---				
SL116314	475327			Faecal Coliforms ¤	**816 MPN/100ml**	14/08/2015	
Water - Open	**Init Temp**	**Temp > 1 Min**	**Temp > 2 Min**				
	---	---	---				
SL116315	475328			Faecal Coliforms ¤	**37 MPN/100ml**	14/08/2015	
Water - Open	**Init Temp**	**Temp > 1 Min**	**Temp > 2 Min**				
	---	---	---				
SL116316	475329			Faecal Coliforms ¤	**81 MPN/100ml**	14/08/2015	
Water - Open	**Init Temp**	**Temp > 1 Min**	**Temp > 2 Min**				
	---	---	---				

Reg. Office: Unit 9 Riverside Ind. Estate, 27 Thames Road, Barking, Essex, IG11 0ND
Reg. in England No. 7270283

BACTERIOLOGICAL TEST REPORT

Client	**i2 Analytical LTD**
Address:	7 Woodshots Meadow Croxley Green Business Park Croxley Green Hertfordshire WD18 8YS
Site:	15-77040
FAO:	Trevor Hill
Order No:	7378 15-77040

Job Number:	**M/182/22045**
Report No:	**22967.1**
Date Taken:	Wed, Aug 12th, 2015
Date Rec'd:	Fri, Aug 14th, 2015

UKAS TESTING
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Directors: B. Patel, K.Patel

Items Marked ¤ are not included in the UKAS Schedule

Sample ID	Description & Temperatures	Analysis	Result	Tested	Notes / Species

Method Codes

B3.12 Coliforms and Escherichia coli

Legend & Footnotes

cfu = Colony Forming Units.
mpn = Most Probable Number.
TNTC = Too Numerous to Count.
Tests Marked ¤ are not included in our UKAS Schedule.

B.Patel

Quality Manager

Date: Thu, Aug 20th 2015, 11:10

All Samples Analysed as received.

Disclaimer

Results relate to water samples tested and should not be reproduced except in full, without the written approval of the laboratory.

-------- END OF REPORT --------

Reg. Office: Unit 9 Riverside Ind. Estate, 27 Thames Road, Barking, Essex, IG11 0ND
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Analytical Report Number : 15-77039

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	12/08/2015
Your job number:	30766	**Samples instructed on:**	12/08/2015
Your order number:		**Analysis completed by:**	21/08/2015
Report Issue Number:	1	**Report issued on:**	21/08/2015
Samples Analysed:	9 water samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-77039

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475317	475318	475319	475320	475321
Sample Reference				BH101	WS102	WS203	BH201	WS101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				4.98	3.98	1.56	3.92	3.66
Date Sampled				12/08/2015	12/08/2015	12/08/2015	12/08/2015	12/08/2015
Time Taken				1000	1100	1200	1300	1000
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	6.8	12.8	13.1	11.7	8.0
Electrical Conductivity	µS/cm	10	NONE	17000	34000	73000	4400	110000
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	13	< 10	< 10
Complex Cyanide	µg/l	10	NONE	< 10	< 10	13	< 10	< 10
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO_4 #	µg/l	45	ISO 17025	532000	1530000	4720000	429000	11000000
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	37000	5.8	< 5.0
Chloride	mg/l	0.15	ISO 17025	7000	3200	4700	460	28000
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	2800	5400	50000	2700	450000
Nitrate as N	mg/l	0.01	ISO 17025	0.09	0.14	0.36	0.83	0.80
Nitrate as NO_3	mg/l	0.05	ISO 17025	0.42	0.62	1.61	3.69	3.53
Nitrite as N	µg/l	1	ISO 17025	1.0	300	410	590	11
Nitrite as NO_2	µg/l	5	ISO 17025	< 5.0	970	1300	1900	36
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	69	97	1300	80	1800
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	4.4	1.4	34	9.7	24
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	< 0.3	0.4	0.8	1.4	0.8
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-77039

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475317	475318	475319	475320	475321
Sample Reference				BH101	WS102	WS203	BH201	WS101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				4.98	3.98	1.56	3.92	3.66
Date Sampled				12/08/2015	12/08/2015	12/08/2015	12/08/2015	12/08/2015
Time Taken				1000	1100	1200	1300	1000
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0026	20.2	0.647	0.432	0.0433
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.0	< 0.4	< 0.4	12	< 0.4
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.68	38.3	21.4	53.9	29.2
Barium (dissolved)	µg/l	0.06	ISO 17025	130	17	43	11	43
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	0.1	0.3	< 0.1	< 0.1
Boron (dissolved)	µg/l	10	ISO 17025	860	32	25	92	890
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	< 0.02	< 0.02	0.10	1.8
Chromium (dissolved)	µg/l	0.2	ISO 17025	1.2	18	1.2	4.5	17
Copper (dissolved)	µg/l	0.5	ISO 17025	4.0	66	9.4	21	12
Iron (dissolved)	mg/l	0.004	ISO 17025	< 0.004	0.039	0.029	0.073	0.078
Lead (dissolved)	µg/l	0.2	ISO 17025	0.3	9.0	1.4	2.4	1.6
Manganese (dissolved)	µg/l	0.05	ISO 17025	250	0.38	0.22	1.6	89
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.94	< 0.05	1.33	0.71	< 0.05
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	1.8	100	730	33	4.6
Nickel (dissolved)	µg/l	0.5	ISO 17025	12	7.0	1200	17	19
Selenium (dissolved)	µg/l	0.6	ISO 17025	65	47	260	20	18
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.9	73	84	460	34
Zinc (dissolved)	µg/l	0.5	ISO 17025	1.9	1.8	2.1	< 0.5	1.9
Calcium (dissolved)	mg/l	0.012	ISO 17025	270	6.6	20	8.1	230
Magnesium (dissolved)	mg/l	0.005	ISO 17025	270	< 0.005	< 0.005	< 0.005	270
Potassium (dissolved) #	mg/l	0.025	ISO 17025	110	6800	12000	880	21000
Phosphorus (total)	µg/l	20	ISO 17025	97	670	89	15000	34000
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

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Analytical Report Number: 15-77039

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475317	475318	475319	475320	475321
Sample Reference				BH101	WS102	WS203	BH201	WS101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				4.98	3.98	1.56	3.92	3.66
Date Sampled				12/08/2015	12/08/2015	12/08/2015	12/08/2015	12/08/2015
Time Taken				1000	1100	1200	1300	1000
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 15-77039

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475317	475318	475319	475320	475321
Sample Reference				BH101	WS102	WS203	BH201	WS101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				4.98	3.98	1.56	3.92	3.66
Date Sampled				12/08/2015	12/08/2015	12/08/2015	12/08/2015	12/08/2015
Time Taken				1000	1100	1200	1300	1000
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	0.40	11	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	0.17	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Results are an estimate only due to high dilutions

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number: 15-77039

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475322	475323	475324	475325	
Sample Reference				BH202	WS202	FIELD BLANK	TRIP BLANK	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				3.66	7.95	None Supplied	None Supplied	
Date Sampled				12/08/2015	12/08/2015	12/08/2015	12/08/2015	
Time Taken				1100	1200	1100	1100	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.4	13.0	10.3	8.6	
Electrical Conductivity	µS/cm	10	NONE	14000	92000	540	10	
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10	< 10	
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Sulphate as SO_4 #	µg/l	45	ISO 17025	430000	13000000	3280	8300	
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	
Chloride	mg/l	0.15	ISO 17025	4700	4300	0.61	2.5	
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	4500	28000	< 15	< 15	
Nitrate as N	mg/l	0.01	ISO 17025	0.41	0.27	0.05	0.19	
Nitrate as NO_3	mg/l	0.05	ISO 17025	1.82	1.19	0.21	0.83	
Nitrite as N	µg/l	1	ISO 17025	14	910	9.0	6.0	
Nitrite as NO_2	µg/l	5	ISO 17025	46	3000	30	20	
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	140	560	28	< 2.0	
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	< 1.0	120	-	-	
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	0.4	1.2	< 0.3	< 0.3	
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	

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Analytical Report Number: 15-77039

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475322	475323	475324	475325	
Sample Reference				BH202	WS202	FIELD BLANK	TRIP BLANK	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				3.66	7.95	None Supplied	None Supplied	
Date Sampled				12/08/2015	12/08/2015	12/08/2015	12/08/2015	
Time Taken				1100	1200	1100	1100	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0080	0.0734	0.0578	0.0020	
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.0	< 0.4	1.1	1.4	
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.76	15.6	0.36	< 0.15	
Barium (dissolved)	µg/l	0.06	ISO 17025	200	27	1.6	0.35	
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	
Boron (dissolved)	µg/l	10	ISO 17025	620	27	100	100	
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	< 0.02	0.02	< 0.02	
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.9	1600	2.0	0.7	
Copper (dissolved)	µg/l	0.5	ISO 17025	2.2	27	3.1	3.3	
Iron (dissolved)	mg/l	0.004	ISO 17025	0.38	< 0.004	0.008	0.018	
Lead (dissolved)	µg/l	0.2	ISO 17025	0.2	3.0	< 0.2	< 0.2	
Manganese (dissolved)	µg/l	0.05	ISO 17025	860	< 0.05	5.8	0.53	
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.24	< 0.05	< 0.05	< 0.05	
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	2.8	380	2.8	0.45	
Nickel (dissolved)	µg/l	0.5	ISO 17025	1.9	160	1.2	< 0.5	
Selenium (dissolved)	µg/l	0.6	ISO 17025	49	630	13	3.2	
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.9	61	0.5	< 0.2	
Zinc (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	4.6	< 0.5	
Calcium (dissolved)	mg/l	0.012	ISO 17025	310	38	0.19	0.20	
Magnesium (dissolved)	mg/l	0.005	ISO 17025	190	< 0.005	< 0.005	< 0.005	
Potassium (dissolved) #	mg/l	0.025	ISO 17025	81	18000	9.5	9.5	
Phosphorus (total)	µg/l	20	ISO 17025	470	160	< 20	< 20	
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	

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Analytical Report Number: 15-77039

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475322	475323	475324	475325	
Sample Reference				BH202	WS202	FIELD BLANK	TRIP BLANK	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				3.66	7.95	None Supplied	None Supplied	
Date Sampled				12/08/2015	12/08/2015	12/08/2015	12/08/2015	
Time Taken				1100	1200	1100	1100	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	

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Analytical Report Number: 15-77039

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				475322	475323	475324	475325	
Sample Reference				BH202	WS202	FIELD BLANK	TRIP BLANK	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				3.66	7.95	None Supplied	None Supplied	
Date Sampled				12/08/2015	12/08/2015	12/08/2015	12/08/2015	
Time Taken				1100	1200	1100	1100	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	2.9	< 0.05	< 0.05	
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	

Results are an estimate only due to high dilutions

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-77039

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE

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Analytical Report Number : 15-77039

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-76250

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	29/07/2015
Your job number:	30766	**Samples instructed on:**	29/07/2015
Your order number:		**Analysis completed by:**	06/08/2015
Report Issue Number:	1	**Report issued on:**	06/08/2015
Samples Analysed:	4 water samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Analytical Report Number: 15-76250

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470706	470707	470708	470709	
Sample Reference				Duplicate A	BH201	BH204	BH202	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	3.81	2.80	3.85	
Date Sampled				29/07/2015	29/07/2015	29/07/2015	29/07/2015	
Time Taken				None Supplied	100	0900	1000	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	13.1	11.4	7.6	7.8	
Electrical Conductivity	µS/cm	10	NONE	60000	3600	1800	11000	
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10	< 10	
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Sulphate as SO_4	µg/l	45	ISO 17025	4940000	347000	103000	452000	
Sulphide	µg/l	5	NONE	45000	77	< 5.0	< 5.0	
Chloride	mg/l	0.15	ISO 17025	4700	330	220	4200	
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	51000	190	1700	4400	
Nitrate as N	mg/l	0.01	ISO 17025	0.33	1.18	0.25	0.91	
Nitrate as NO_3	mg/l	0.05	ISO 17025	1.45	5.25	1.09	4.05	
Nitrite as N	µg/l	1	ISO 17025	390	950	17	220	
Nitrite as NO_2	µg/l	5	ISO 17025	1300	3100	56	740	
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	1100	64	31	99	
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	21	7.5	25	22	
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	0.7	2.1	< 0.3	1.1	
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	1700	< 10	< 10	< 10	
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	

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Analytical Report Number: 15-76250

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470706	470707	470708	470709	
Sample Reference				Duplicate A	BH201	BH204	BH202	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	3.81	2.80	3.85	
Date Sampled				29/07/2015	29/07/2015	29/07/2015	29/07/2015	
Time Taken				None Supplied	100	0900	1000	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.195	0.229	0.0352	0.0020	
Antimony (dissolved)	µg/l	0.4	ISO 17025	3.2	9.5	1.0	1.3	
Arsenic (dissolved)	µg/l	0.15	ISO 17025	19.3	28.5	1.77	1.31	
Barium (dissolved)	µg/l	0.06	ISO 17025	52	7.8	43	180	
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	
Boron (dissolved)	µg/l	10	ISO 17025	15	99	300	450	
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.29	0.05	< 0.02	< 0.02	
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	
Chromium (dissolved)	µg/l	0.2	ISO 17025	1.2	4.7	0.5	0.3	
Copper (dissolved)	µg/l	0.5	ISO 17025	4.7	8.8	2.1	3.2	
Iron (dissolved)	mg/l	0.004	ISO 17025	0.13	0.29	0.44	3.1	
Lead (dissolved)	µg/l	0.2	ISO 17025	0.5	3.2	0.5	0.4	
Manganese (dissolved)	µg/l	0.05	ISO 17025	0.67	2.2	640	470	
Mercury (dissolved)	µg/l	0.05	ISO 17025	5.83	0.24	< 0.05	< 0.05	
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	1100	11	4.5	8.2	
Nickel (dissolved)	µg/l	0.5	ISO 17025	1700	7.3	7.3	13	
Selenium (dissolved)	µg/l	0.6	ISO 17025	480	8.9	5.2	39	
Vanadium (dissolved)	µg/l	0.2	ISO 17025	150	120	1.1	0.6	
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.4	2.0	2.4	14	

Calcium (dissolved)	mg/l	0.012	ISO 17025	46	8.6	91	320	
Magnesium (dissolved)	mg/l	0.005	ISO 17025	< 0.005	< 0.005	43	210	
Potassium (dissolved)	mg/l	0.025	ISO 17025	11000	570	65	130	
Phosphorus (total)	µg/l	20	ISO 17025	100	5200	1900	180	

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Analytical Report Number: 15-76250

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470706	470707	470708	470709	
Sample Reference				Duplicate A	BH201	BH204	BH202	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	3.81	2.80	3.85	
Date Sampled				29/07/2015	29/07/2015	29/07/2015	29/07/2015	
Time Taken				None Supplied	100	0900	1000	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	

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Analytical Report Number: 15-76250

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470706	470707	470708	470709	
Sample Reference				Duplicate A	BH201	BH204	BH202	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	3.81	2.80	3.85	
Date Sampled				29/07/2015	29/07/2015	29/07/2015	29/07/2015	
Time Taken				None Supplied	100	0900	1000	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-76250

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470706	470707	470708	470709	
Sample Reference				Duplicate A	BH201	BH204	BH202	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				None Supplied	3.81	2.80	3.85	
Date Sampled				29/07/2015	29/07/2015	29/07/2015	29/07/2015	
Time Taken				None Supplied	100	0900	1000	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	16	< 0.05	< 0.05	< 0.05	
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-76250

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025

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Analytical Report Number : 15-76250

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-76240

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	29/07/2015
Your job number:	30766	**Samples instructed on:**	29/07/2015
Your order number:		**Analysis completed by:**	06/08/2015
Report Issue Number:	1	**Report issued on:**	06/08/2015
Samples Analysed:	3 water samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Analytical Report Number: 15-76240

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470679	470680	470681		
Sample Reference				Duplicate B	WS102	WS203		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				None Supplied	3.49	1.23		
Date Sampled				29/07/2015	29/07/2015	29/07/2015		
Time Taken				None Supplied	1245	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.3	12.8	13.1		
Electrical Conductivity	µS/cm	10	NONE	13000	19000	59000		
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10		
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10		
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10		
Sulphate as SO_4	µg/l	45	ISO 17025	487000	2310000	5060000		
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	30000		
Chloride	mg/l	0.15	ISO 17025	5000	2800	4900		
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	1700	3900	53000		
Nitrate as N	mg/l	0.01	ISO 17025	0.46	0.15	0.34		
Nitrate as NO_3	mg/l	0.05	ISO 17025	2.03	0.68	1.51		
Nitrite as N	µg/l	1	ISO 17025	3.0	290	400		
Nitrite as NO_2	µg/l	5	ISO 17025	9.9	940	1300		
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	130	200	1200		
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	33	3.3	17		
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	0.5	0.4	0.7		
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	280	120	1700		
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2		

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Analytical Report Number: 15-76240

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470679	470680	470681		
Sample Reference				Duplicate B	WS102	WS203		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				None Supplied	3.49	1.23		
Date Sampled				29/07/2015	29/07/2015	29/07/2015		
Time Taken				None Supplied	1245	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0015	25.7	0.424		
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.2	2.6	2.9		
Arsenic (dissolved)	µg/l	0.15	ISO 17025	7.68	34.3	21.4		
Barium (dissolved)	µg/l	0.06	ISO 17025	140	22	56		
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1		
Boron (dissolved)	µg/l	10	ISO 17025	560	11	21		
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	0.04	0.44		
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0		
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.3	24	1.7		
Copper (dissolved)	µg/l	0.5	ISO 17025	1.3	52	7.8		
Iron (dissolved)	mg/l	0.004	ISO 17025	5.3	0.57	0.24		
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	28	0.7		
Manganese (dissolved)	µg/l	0.05	ISO 17025	290	0.70	0.48		
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.64	1.44	8.83		
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	2.3	77	940		
Nickel (dissolved)	µg/l	0.5	ISO 17025	21	4.5	1400		
Selenium (dissolved)	µg/l	0.6	ISO 17025	43	110	370		
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.7	80	170		
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.1	7.5	2.7		

Calcium (dissolved)	mg/l	0.012	ISO 17025	340	19	35		
Magnesium (dissolved)	mg/l	0.005	ISO 17025	280	< 0.005	< 0.005		
Potassium (dissolved)	mg/l	0.025	ISO 17025	240	8200	11000		
Phosphorus (total)	µg/l	20	ISO 17025	23	810	96		

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Analytical Report Number: 15-76240

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470679	470680	470681		
Sample Reference				Duplicate B	WS102	WS203		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				None Supplied	3.49	1.23		
Date Sampled				29/07/2015	29/07/2015	29/07/2015		
Time Taken				None Supplied	1245	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		

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Analytical Report Number: 15-76240

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470679	470680	470681		
Sample Reference				Duplicate B	WS102	WS203		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				None Supplied	3.49	1.23		
Date Sampled				29/07/2015	29/07/2015	29/07/2015		
Time Taken				None Supplied	1245	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		

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Analytical Report Number: 15-76240

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470679	470680	470681		
Sample Reference				Duplicate B	WS102	WS203		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				None Supplied	3.49	1.23		
Date Sampled				29/07/2015	29/07/2015	29/07/2015		
Time Taken				None Supplied	1245	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	19		
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02		
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-76240

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025

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Analytical Report Number : 15-76240

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-76237

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	29/07/2015
Your job number:	30766	**Samples instructed on:**	29/07/2015
Your order number:		**Analysis completed by:**	06/08/2015
Report Issue Number:	1	**Report issued on:**	06/08/2015
Samples Analysed:	4 water samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Analytical Report Number: 15-76237

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470638	470639	470640	470641	
Sample Reference				BH101	WS202	WS101	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				3.99	7.26	3.65	2.86	
Date Sampled				29/07/2015	29/07/2015	29/07/2015	29/07/2015	
Time Taken				1315	1150	1230	0900	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	6.7	13.1	8.2	7.6	
Electrical Conductivity	µS/cm	10	NONE	13000	64000	97000	2800	
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10	< 10	
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	
Sulphate as SO_4	µg/l	45	ISO 17025	461000	15000000	10000000	1000000	
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	
Chloride	mg/l	0.15	ISO 17025	5000	4600	29000	240	
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	< 15	39000	400000	1500	
Nitrate as N	mg/l	0.01	ISO 17025	0.36	0.26	0.94	0.18	
Nitrate as NO_3	mg/l	0.05	ISO 17025	1.61	1.14	4.16	0.78	
Nitrite as N	µg/l	1	ISO 17025	4.0	1000	23	45	
Nitrite as NO_2	µg/l	5	ISO 17025	13	3400	76	150	
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	3200	2100	5000	110	
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	33	2.1	130	23	
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	0.4	1.3	1.0	< 0.3	
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	1000	1000	< 10	
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	

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Analytical Report Number: 15-76237

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470638	470639	470640	470641	
Sample Reference				BH101	WS202	WS101	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				3.99	7.26	3.65	2.86	
Date Sampled				29/07/2015	29/07/2015	29/07/2015	29/07/2015	
Time Taken				1315	1150	1230	0900	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0014	0.0609	< 0.0010	0.0155	
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.4	2.5	< 0.4	3.5	
Arsenic (dissolved)	µg/l	0.15	ISO 17025	5.57	29.9	< 0.15	1.78	
Barium (dissolved)	µg/l	0.06	ISO 17025	130	24	3.7	140	
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	0.1	< 0.1	< 0.1	
Boron (dissolved)	µg/l	10	ISO 17025	540	25	710	370	
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	0.36	< 0.02	0.05	
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	2000	< 5.0	< 5.0	
Chromium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	2100	7.4	0.9	
Copper (dissolved)	µg/l	0.5	ISO 17025	0.9	33	1.8	9.9	
Iron (dissolved)	mg/l	0.004	ISO 17025	6.8	0.16	0.29	0.087	
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	4.9	< 0.2	1.2	
Manganese (dissolved)	µg/l	0.05	ISO 17025	230	0.47	16	410	
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.68	2.71	< 0.05	0.11	
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	3.3	680	0.22	9.9	
Nickel (dissolved)	µg/l	0.5	ISO 17025	21	240	< 0.5	11	
Selenium (dissolved)	µg/l	0.6	ISO 17025	41	820	< 0.6	21	
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.6	120	2.2	1.2	
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.9	< 0.5	20	9.1	
Calcium (dissolved)	mg/l	0.012	ISO 17025	320	61	130	320	
Magnesium (dissolved)	mg/l	0.005	ISO 17025	280	< 0.005	300	68	
Potassium (dissolved)	mg/l	0.025	ISO 17025	160	18000	1500	40	
Phosphorus (total)	µg/l	20	ISO 17025	21	58	22000	190	
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	

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Analytical Report Number: 15-76237

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470638	470639	470640	470641	
Sample Reference				BH101	WS202	WS101	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				3.99	7.26	3.65	2.86	
Date Sampled				29/07/2015	29/07/2015	29/07/2015	29/07/2015	
Time Taken				1315	1150	1230	0900	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	

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Analytical Report Number: 15-76237

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470638	470639	470640	470641	
Sample Reference				BH101	WS202	WS101	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				3.99	7.26	3.65	2.86	
Date Sampled				29/07/2015	29/07/2015	29/07/2015	29/07/2015	
Time Taken				1315	1150	1230	0900	
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-76237

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025

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Analytical Report Number : 15-76237

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-76177

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	28/07/2015
Your job number:	30766	**Samples instructed on:**	29/07/2015
Your order number:		**Analysis completed by:**	04/08/2015
Report Issue Number:	1	**Report issued on:**	04/08/2015
Samples Analysed:	1 water sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Analytical Report Number: 15-76177

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470279				
Sample Reference				BH502				
Sample Number				None Supplied				
Depth (m)				12.02				
Date Sampled				28/07/2015				
Time Taken				1340				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	6.5				
Electrical Conductivity	µS/cm	10	NONE	4500				
Total Cyanide	µg/l	10	ISO 17025	< 10				
Complex Cyanide	µg/l	10	NONE	< 10				
Free Cyanide	µg/l	10	ISO 17025	< 10				
Sulphate as SO_4	µg/l	45	ISO 17025	600000				
Sulphide	µg/l	5	NONE	< 5.0				
Chloride	mg/l	0.15	ISO 17025	1100				
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	< 15				
Nitrate as N	mg/l	0.01	ISO 17025	33.5				
Nitrate as NO_3	mg/l	0.05	ISO 17025	148				
Nitrite as N	µg/l	1	ISO 17025	96				
Nitrite as NO_2	µg/l	5	ISO 17025	320				
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	25				
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	< 1.0				
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	34				
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10				
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01				
Fluorene	µg/l	0.01	ISO 17025	< 0.01				
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01				
Anthracene	µg/l	0.01	ISO 17025	< 0.01				
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Pyrene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Chrysene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01				
Coronene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2				
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2				

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Analytical Report Number: 15-76177

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470279				
Sample Reference				BH502				
Sample Number				None Supplied				
Depth (m)				12.02				
Date Sampled				28/07/2015				
Time Taken				1340				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0736				
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.4				
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.79				
Barium (dissolved)	µg/l	0.06	ISO 17025	55				
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1				
Boron (dissolved)	µg/l	10	ISO 17025	540				
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02				
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0				
Chromium (dissolved)	µg/l	0.2	ISO 17025	19				
Copper (dissolved)	µg/l	0.5	ISO 17025	4.3				
Iron (dissolved)	mg/l	0.004	ISO 17025	0.044				
Lead (dissolved)	µg/l	0.2	ISO 17025	0.5				
Manganese (dissolved)	µg/l	0.05	ISO 17025	22				
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.47				
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	4.7				
Nickel (dissolved)	µg/l	0.5	ISO 17025	9.6				
Selenium (dissolved)	µg/l	0.6	ISO 17025	18				
Vanadium (dissolved)	µg/l	0.2	ISO 17025	1.8				
Zinc (dissolved)	µg/l	0.5	ISO 17025	6.5				

Calcium (dissolved)	mg/l	0.012	ISO 17025	520				
Magnesium (dissolved)	mg/l	0.005	ISO 17025	24				
Potassium (dissolved)	mg/l	0.025	ISO 17025	89				
Phosphorus (total)	µg/l	20	ISO 17025	2400				

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Analytical Report Number: 15-76177

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470279				
Sample Reference				BH502				
Sample Number				None Supplied				
Depth (m)				12.02				
Date Sampled				28/07/2015				
Time Taken				1340				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0				
Toluene	µg/l	1	ISO 17025	< 1.0				
Ethylbenzene	µg/l	1	ISO 17025	< 1.0				
p & m-xylene	µg/l	1	ISO 17025	< 1.0				
o-xylene	µg/l	1	ISO 17025	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				

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Analytical Report Number: 15-76177

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470279				
Sample Reference				BH502				
Sample Number				None Supplied				
Depth (m)				12.02				
Date Sampled				28/07/2015				
Time Taken				1340				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0				
Chloroethane	µg/l	1	ISO 17025	< 1.0				
Bromomethane	µg/l	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/l	1	NONE	< 1.0				
Trichlorofluoromethane	µg/l	1	NONE	< 1.0				
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0				
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0				
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Trichloromethane	µg/l	1	ISO 17025	< 1.0				
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0				
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0				
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0				
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0				
Benzene	µg/l	1	ISO 17025	< 1.0				
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0				
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Trichloroethene	µg/l	1	ISO 17025	< 1.0				
Dibromomethane	µg/l	1	ISO 17025	< 1.0				
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0				
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0				
Toluene	µg/l	1	ISO 17025	< 1.0				
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0				
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0				
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0				
Chlorobenzene	µg/l	1	ISO 17025	< 1.0				
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0				
Ethylbenzene	µg/l	1	ISO 17025	< 1.0				
p & m-Xylene	µg/l	1	ISO 17025	< 1.0				
Styrene	µg/l	1	ISO 17025	< 1.0				
Tribromomethane	µg/l	1	ISO 17025	< 1.0				
o-Xylene	µg/l	1	ISO 17025	< 1.0				
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0				
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0				
Bromobenzene	µg/l	1	ISO 17025	< 1.0				
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0				
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0				
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0				
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0				
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0				

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Analytical Report Number: 15-76177

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470279				
Sample Reference				BH502				
Sample Number				None Supplied				
Depth (m)				12.02				
Date Sampled				28/07/2015				
Time Taken				1340				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05				
Phenol	µg/l	0.05	NONE	< 0.05				
2-Chlorophenol	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05				
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05				
2-Methylphenol	µg/l	0.05	NONE	< 0.05				
Hexachloroethane	µg/l	0.05	NONE	< 0.05				
Nitrobenzene	µg/l	0.05	NONE	< 0.05				
4-Methylphenol	µg/l	0.05	NONE	< 0.05				
Isophorone	µg/l	0.05	NONE	< 0.05				
2-Nitrophenol	µg/l	0.05	NONE	< 0.05				
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05				
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05				
Naphthalene	µg/l	0.01	ISO 17025	< 0.01				
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05				
4-Chloroaniline	µg/l	0.05	NONE	< 0.05				
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05				
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05				
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05				
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05				
Dimethylphthalate	µg/l	0.05	NONE	< 0.05				
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05				
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01				
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05				
Dibenzofuran	µg/l	0.05	NONE	< 0.05				
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05				
Diethyl phthalate	µg/l	0.05	NONE	< 0.05				
4-Nitroaniline	µg/l	0.05	NONE	< 0.05				
Fluorene	µg/l	0.01	ISO 17025	< 0.01				
Azobenzene	µg/l	0.05	NONE	< 0.05				
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05				
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02				
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01				
Anthracene	µg/l	0.01	ISO 17025	< 0.01				
Carbazole	µg/l	0.05	NONE	< 0.05				
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05				
Anthraquinone	µg/l	0.05	NONE	< 0.05				
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Pyrene	µg/l	0.01	ISO 17025	< 0.01				
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05				
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Chrysene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01				

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-76177

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025

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Analytical Report Number : 15-76177

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-76174

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	28/07/2015
Your job number:	30766	**Samples instructed on:**	29/07/2015
Your order number:		**Analysis completed by:**	04/08/2015
Report Issue Number:	1	**Report issued on:**	04/08/2015
Samples Analysed:	5 water samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Analytical Report Number: 15-76174

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470264	470265	470266	470267	470268
Sample Reference				BH501	BH703	BH705	BH706	BH707
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				28/07/2015	28/07/2015	28/07/2015	28/07/2015	28/07/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.2	7.2	7.2	7.1	7.0
Electrical Conductivity	µS/cm	10	NONE	1100	1400	1200	1200	1400
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO_4	µg/l	45	ISO 17025	144000	373000	140000	147000	300000
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	0.15	ISO 17025	60	99	130	110	110
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	< 15	23	< 15	< 15	< 15
Nitrate as N	mg/l	0.01	ISO 17025	17.5	7.80	22.1	23.0	8.49
Nitrate as NO_3	mg/l	0.05	ISO 17025	77.6	34.5	97.7	102	37.6
Nitrite as N	µg/l	1	ISO 17025	6.0	21	5.0	17	110
Nitrite as NO_2	µg/l	5	ISO 17025	20	69	16	56	360
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	22	7.2	3.0	< 2.0	21
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	4.2	3.6	< 1.0	1.6	1.7
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	18	7.8	22	23	8.6
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

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Analytical Report Number: 15-76174

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470264	470265	470266	470267	470268
Sample Reference				BH501	BH703	BH705	BH706	BH707
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				28/07/2015	28/07/2015	28/07/2015	28/07/2015	28/07/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0076	0.0019	0.0044	0.0087	0.0244
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.6	1.2	1.0	1.0	1.3
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.58	< 0.15	0.37	0.34	0.61
Barium (dissolved)	µg/l	0.06	ISO 17025	41	100	57	50	47
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron (dissolved)	µg/l	10	ISO 17025	120	45	31	43	49
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.03	< 0.02	0.02	0.03	0.02
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.5	0.2	0.2	0.9	0.3
Copper (dissolved)	µg/l	0.5	ISO 17025	3.7	3.2	3.0	3.9	1.7
Iron (dissolved)	mg/l	0.004	ISO 17025	0.051	0.094	0.031	0.071	0.047
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	12	2.0
Manganese (dissolved)	µg/l	0.05	ISO 17025	9.5	160	66	29	470
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.09	0.10	< 0.05	< 0.05	0.07
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	0.86	1.5	0.35	0.32	7.9
Nickel (dissolved)	µg/l	0.5	ISO 17025	5.5	6.5	5.7	5.2	21
Selenium (dissolved)	µg/l	0.6	ISO 17025	4.4	2.6	1.8	1.5	3.2
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.8	0.2	0.4	0.5	0.3
Zinc (dissolved)	µg/l	0.5	ISO 17025	6.7	2.8	3.2	5.3	3.1
Calcium (dissolved)	mg/l	0.012	ISO 17025	200	240	230	230	290
Magnesium (dissolved)	mg/l	0.005	ISO 17025	11	13	8.5	12	13
Potassium (dissolved)	mg/l	0.025	ISO 17025	13	51	3.9	4.6	3.4
Phosphorus (total)	µg/l	20	ISO 17025	3700	250	640	1100	3900
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

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Analytical Report Number: 15-76174

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470264	470265	470266	470267	470268
Sample Reference				BH501	BH703	BH705	BH706	BH707
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				28/07/2015	28/07/2015	28/07/2015	28/07/2015	28/07/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-76174

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				470264	470265	470266	470267	470268
Sample Reference				BH501	BH703	BH705	BH706	BH707
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				28/07/2015	28/07/2015	28/07/2015	28/07/2015	28/07/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-76174

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025

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Analytical Report Number : 15-76174

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-75469

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	26/06/2015
Your job number:	30766	**Samples instructed on:**	15/07/2015
Your order number:		**Analysis completed by:**	22/07/2015
Report Issue Number:	1	**Report issued on:**	22/07/2015
Samples Analysed:	8 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-75469

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				465846	465847	465848	465849	465850
Sample Reference				BH502	BH502	BH502	BH502	BH502
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.60	2.10	4.70	5.60	7.70
Date Sampled				24/06/2015	24/06/2015	24/06/2015	24/06/2015	24/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

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Analytical Report Number: 15-75469

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				465851	465852	465853		
Sample Reference				BH502	BH502	BH502		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				9.00	9.40	11.30		
Date Sampled				24/06/2015	24/06/2015	24/06/2015		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected		

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Analytical Report Number : 15-75469

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-75465

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	15/07/2015
Your job number:	30766	**Samples instructed on:**	15/07/2015
Your order number:		**Analysis completed by:**	23/07/2015
Report Issue Number:	1	**Report issued on:**	23/07/2015
Samples Analysed:	7 water samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Analytical Report Number: 15-75465

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				465834	465835	465836	465837	465838	465839	465840
Sample Reference				BH101	WS101	BH204	BH203	BH201	BH501	BH502
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				5.26	3.31	2.50	2.37	3.83	11.73	12.20
Date Sampled				15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015
Time Taken				0900	1000	1100	1145	1245	1345	1410
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**							
General Inorganics										
pH	pH Units	N/A	ISO 17025	7.2	8.9	7.4	7.5	11.3	7.5	7.3
Electrical Conductivity	µS/cm	10	NONE	6000	120000	1700	2800	3100	1200	4900
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Sulphate as SO_4	µg/l	45	ISO 17025	327000	9820000	111000	1080000	383000	136000	614000
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	0.15	ISO 17025	1900	28000	230	260	260	75	1300
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	3600	410000	1300	1300	690	< 15	< 15
Nitrate as N	mg/l	0.01	ISO 17025	0.15	1.07	0.35	1.11	1.14	15.9	34.7
Nitrate as NO_3	mg/l	0.05	ISO 17025	0.68	4.73	1.56	4.94	5.04	70.5	154
Nitrite as N	µg/l	1	ISO 17025	2.0	21	2.0	410	450	29	20
Nitrite as NO_2	µg/l	5	ISO 17025	6.6	69	6.6	1300	1500	95	66
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	98	2200	43	62	62	14	37
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	50	8.2	5.7	3.0	2.8	4.5	4.8
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	< 0.3	1.1	0.4	1.5	1.6	16	35
Total Phenols										
Total Phenols (monohydric)	µg/l	10	ISO 17025	110	< 10	< 10	< 10	< 10	< 10	< 10
Speciated PAHs										
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total PAH										
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Heavy Metals / Metalloids										
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0030	0.0563	0.0036	0.0059	0.474	0.0039	0.0029
Antimony (dissolved)	µg/l	0.4	ISO 17025	2.0	2.4	2.1	2.6	11	1.1	1.5
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.72	55.3	2.64	1.71	41.3	0.44	0.69
Barium (dissolved)	µg/l	0.06	ISO 17025	110	37	39	130	8.3	43	66
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Boron (dissolved)	µg/l	10	ISO 17025	220	920	290	420	110	120	560
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	0.41	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	15	< 0.2	0.2	4.1	0.3	14
Copper (dissolved)	µg/l	0.5	ISO 17025	1.5	15	6.4	8.5	25	5.3	4.5
Iron (dissolved)	mg/l	0.004	ISO 17025	3.4	0.14	0.37	0.13	0.092	0.39	0.34
Lead (dissolved)	µg/l	0.2	ISO 17025	0.2	6.7	0.3	0.4	1.4	0.3	0.3
Manganese (dissolved)	µg/l	0.05	ISO 17025	800	48	210	420	1.5	16	18
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	0.37	0.52	1.37	1.08	0.09	< 0.05
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	18	9.2	5.9	9.7	18	1.8	5.8
Nickel (dissolved)	µg/l	0.5	ISO 17025	15	26	8.3	9.6	3.5	4.4	10
Selenium (dissolved)	µg/l	0.6	ISO 17025	94	36	6.4	25	11	3.6	22
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.3	37	3.2	1.3	230	0.9	1.5
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.5	4.3	1.4	2.9	< 0.5	7.1	3.9

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-75465

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				465834	465835	465836	465837	465838	465839	465840
Sample Reference				BH101	WS101	BH204	BH203	BH201	BH501	BH502
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				5.26	3.31	2.50	2.37	3.83	11.73	12.20
Date Sampled				15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015
Time Taken				0900	1000	1100	1145	1245	1345	1410
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**							
Calcium (dissolved)	mg/l	0.012	ISO 17025	150	220	91	360	7.4	190	500
Magnesium (dissolved)	mg/l	0.005	ISO 17025	78	280	35	65	0.31	9.7	21
Potassium (dissolved)	mg/l	0.025	ISO 17025	44	3100	46	55	580	13	85
Phosphorus (total)	mg/l	0.05	ISO 17025	< 0.050	19	0.86	0.44	1.1	4.0	1.8
Phosphorus (total)	µg/l	20	ISO 17025	24	19000	860	440	1100	4000	1800
Monoaromatics										
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons										
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	12	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	230	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	980	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	1200	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10

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Analytical Report Number: 15-75465

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				465834	465835	465836	465837	465838	465839	465840
Sample Reference				BH101	WS101	BH204	BH203	BH201	BH501	BH502
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				5.26	3.31	2.50	2.37	3.83	11.73	12.20
Date Sampled				15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015
Time Taken				0900	1000	1100	1145	1245	1345	1410
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**							
VOCs										
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 15-75465

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				465834	465835	465836	465837	465838	465839	465840
Sample Reference				BH101	WS101	BH204	BH203	BH201	BH501	BH502
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				5.26	3.31	2.50	2.37	3.83	11.73	12.20
Date Sampled				15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015	15/07/2015
Time Taken				0900	1000	1100	1145	1245	1345	1410
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**							
SVOCs										
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number: 15-75465

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number						
Sample Reference						
Sample Number						
Depth (m)						
Date Sampled						
Time Taken						
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
General Inorganics						
pH	pH Units	N/A	ISO 17025			
Electrical Conductivity	µS/cm	10	NONE			
Total Cyanide	µg/l	10	ISO 17025			
Complex Cyanide	µg/l	10	NONE			
Free Cyanide	µg/l	10	ISO 17025			
Sulphate as SO_4	µg/l	45	ISO 17025			
Sulphide	µg/l	5	NONE			
Chloride	mg/l	0.15	ISO 17025			
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025			
Nitrate as N	mg/l	0.01	ISO 17025			
Nitrate as NO_3	mg/l	0.05	ISO 17025			
Nitrite as N	µg/l	1	ISO 17025			
Nitrite as NO_2	µg/l	5	ISO 17025			
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025			
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025			
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE			
Total Phenols						
Total Phenols (monohydric)	µg/l	10	ISO 17025			
Speciated PAHs						
Naphthalene	µg/l	0.01	ISO 17025			
Acenaphthylene	µg/l	0.01	ISO 17025			
Acenaphthene	µg/l	0.01	ISO 17025			
Fluorene	µg/l	0.01	ISO 17025			
Phenanthrene	µg/l	0.01	ISO 17025			
Anthracene	µg/l	0.01	ISO 17025			
Fluoranthene	µg/l	0.01	ISO 17025			
Pyrene	µg/l	0.01	ISO 17025			
Benzo(a)anthracene	µg/l	0.01	ISO 17025			
Chrysene	µg/l	0.01	ISO 17025			
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025			
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025			
Benzo(a)pyrene	µg/l	0.01	ISO 17025			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025			
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025			
Benzo(ghi)perylene	µg/l	0.01	ISO 17025			
Total PAH						
Total EPA-16 PAHs	µg/l	0.2	ISO 17025			
Heavy Metals / Metalloids						
Aluminium (dissolved)	mg/l	0.001	ISO 17025			
Antimony (dissolved)	µg/l	0.4	ISO 17025			
Arsenic (dissolved)	µg/l	0.15	ISO 17025			
Barium (dissolved)	µg/l	0.06	ISO 17025			
Beryllium (dissolved)	µg/l	0.1	ISO 17025			
Boron (dissolved)	µg/l	10	ISO 17025			
Cadmium (dissolved)	µg/l	0.02	ISO 17025			
Chromium (hexavalent)	µg/l	5	ISO 17025			
Chromium (dissolved)	µg/l	0.2	ISO 17025			
Copper (dissolved)	µg/l	0.5	ISO 17025			
Iron (dissolved)	mg/l	0.004	ISO 17025			
Lead (dissolved)	µg/l	0.2	ISO 17025			
Manganese (dissolved)	µg/l	0.05	ISO 17025			
Mercury (dissolved)	µg/l	0.05	ISO 17025			
Molybdenum (dissolved)	µg/l	0.05	ISO 17025			
Nickel (dissolved)	µg/l	0.5	ISO 17025			
Selenium (dissolved)	µg/l	0.6	ISO 17025			
Vanadium (dissolved)	µg/l	0.2	ISO 17025			
Zinc (dissolved)	µg/l	0.5	ISO 17025			

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Analytical Report Number: 15-75465

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number						
Sample Reference						
Sample Number						
Depth (m)						
Date Sampled						
Time Taken						
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Calcium (dissolved)	mg/l	0.012	ISO 17025			
Magnesium (dissolved)	mg/l	0.005	ISO 17025			
Potassium (dissolved)	mg/l	0.025	ISO 17025			
Phosphorus (total)	mg/l	0.05	ISO 17025			
Phosphorus (total)	µg/l	20	ISO 17025			
Monoaromatics						
Benzene	µg/l	1	ISO 17025			
Toluene	µg/l	1	ISO 17025			
Ethylbenzene	µg/l	1	ISO 17025			
p & m-xylene	µg/l	1	ISO 17025			
o-xylene	µg/l	1	ISO 17025			
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025			
Petroleum Hydrocarbons						
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE			
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE			
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE			
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE			
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE			
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE			
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE			
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE			
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE			
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE			
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE			
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE			
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE			
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE			
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE			
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE			

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Analytical Report Number: 15-75465

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number						
Sample Reference						
Sample Number						
Depth (m)						
Date Sampled						
Time Taken						
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
VOCs						
Chloromethane	µg/l	1	ISO 17025			
Chloroethane	µg/l	1	ISO 17025			
Bromomethane	µg/l	1	ISO 17025			
Vinyl Chloride	µg/l	1	NONE			
Trichlorofluoromethane	µg/l	1	NONE			
1,1-Dichloroethene	µg/l	1	ISO 17025			
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025			
Cis-1,2-dichloroethene	µg/l	1	ISO 17025			
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025			
1,1-Dichloroethane	µg/l	1	ISO 17025			
2,2-Dichloropropane	µg/l	1	ISO 17025			
Trichloromethane	µg/l	1	ISO 17025			
1,1,1-Trichloroethane	µg/l	1	ISO 17025			
1,2-Dichloroethane	µg/l	1	ISO 17025			
1,1-Dichloropropene	µg/l	1	ISO 17025			
Trans-1,2-dichloroethene	µg/l	1	ISO 17025			
Benzene	µg/l	1	ISO 17025			
Tetrachloromethane	µg/l	1	ISO 17025			
1,2-Dichloropropane	µg/l	1	ISO 17025			
Trichloroethene	µg/l	1	ISO 17025			
Dibromomethane	µg/l	1	ISO 17025			
Bromodichloromethane	µg/l	1	ISO 17025			
Cis-1,3-dichloropropene	µg/l	1	ISO 17025			
Trans-1,3-dichloropropene	µg/l	1	ISO 17025			
Toluene	µg/l	1	ISO 17025			
1,1,2-Trichloroethane	µg/l	1	ISO 17025			
1,3-Dichloropropane	µg/l	1	ISO 17025			
Dibromochloromethane	µg/l	1	ISO 17025			
Tetrachloroethene	µg/l	1	ISO 17025			
1,2-Dibromoethane	µg/l	1	ISO 17025			
Chlorobenzene	µg/l	1	ISO 17025			
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025			
Ethylbenzene	µg/l	1	ISO 17025			
p & m-Xylene	µg/l	1	ISO 17025			
Styrene	µg/l	1	ISO 17025			
Tribromomethane	µg/l	1	ISO 17025			
o-Xylene	µg/l	1	ISO 17025			
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025			
Isopropylbenzene	µg/l	1	ISO 17025			
Bromobenzene	µg/l	1	ISO 17025			
n-Propylbenzene	µg/l	1	ISO 17025			
2-Chlorotoluene	µg/l	1	ISO 17025			
4-Chlorotoluene	µg/l	1	ISO 17025			
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025			
tert-Butylbenzene	µg/l	1	ISO 17025			
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025			
sec-Butylbenzene	µg/l	1	ISO 17025			
1,3-Dichlorobenzene	µg/l	1	ISO 17025			
p-Isopropyltoluene	µg/l	1	ISO 17025			
1,2-Dichlorobenzene	µg/l	1	ISO 17025			
1,4-Dichlorobenzene	µg/l	1	ISO 17025			
Butylbenzene	µg/l	1	ISO 17025			
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025			
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025			
Hexachlorobutadiene	µg/l	1	ISO 17025			
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025			

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Analytical Report Number: 15-75465

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number						
Sample Reference						
Sample Number						
Depth (m)						
Date Sampled						
Time Taken						
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
SVOCs						
Aniline	µg/l	0.05	NONE			
Phenol	µg/l	0.05	NONE			
2-Chlorophenol	µg/l	0.05	NONE			
Bis(2-chloroethyl)ether	µg/l	0.05	NONE			
1,3-Dichlorobenzene	µg/l	0.05	NONE			
1,2-Dichlorobenzene	µg/l	0.05	NONE			
1,4-Dichlorobenzene	µg/l	0.05	NONE			
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE			
2-Methylphenol	µg/l	0.05	NONE			
Hexachloroethane	µg/l	0.05	NONE			
Nitrobenzene	µg/l	0.05	NONE			
4-Methylphenol	µg/l	0.05	NONE			
Isophorone	µg/l	0.05	NONE			
2-Nitrophenol	µg/l	0.05	NONE			
2,4-Dimethylphenol	µg/l	0.05	NONE			
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE			
1,2,4-Trichlorobenzene	µg/l	0.05	NONE			
Naphthalene	µg/l	0.01	ISO 17025			
2,4-Dichlorophenol	µg/l	0.05	NONE			
4-Chloroaniline	µg/l	0.05	NONE			
Hexachlorobutadiene	µg/l	0.05	NONE			
4-Chloro-3-methylphenol	µg/l	0.05	NONE			
2,4,6-Trichlorophenol	µg/l	0.05	NONE			
2,4,5-Trichlorophenol	µg/l	0.05	NONE			
2-Methylnaphthalene	µg/l	0.05	NONE			
2-Chloronaphthalene	µg/l	0.05	NONE			
Dimethylphthalate	µg/l	0.05	NONE			
2,6-Dinitrotoluene	µg/l	0.05	NONE			
Acenaphthylene	µg/l	0.01	ISO 17025			
Acenaphthene	µg/l	0.01	ISO 17025			
2,4-Dinitrotoluene	µg/l	0.05	NONE			
Dibenzofuran	µg/l	0.05	NONE			
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE			
Diethyl phthalate	µg/l	0.05	NONE			
4-Nitroaniline	µg/l	0.05	NONE			
Fluorene	µg/l	0.01	ISO 17025			
Azobenzene	µg/l	0.05	NONE			
Bromophenyl phenyl ether	µg/l	0.05	NONE			
Hexachlorobenzene	µg/l	0.02	NONE			
Phenanthrene	µg/l	0.01	ISO 17025			
Anthracene	µg/l	0.01	ISO 17025			
Carbazole	µg/l	0.05	NONE			
Dibutyl phthalate	µg/l	0.05	NONE			
Anthraquinone	µg/l	0.05	NONE			
Fluoranthene	µg/l	0.01	ISO 17025			
Pyrene	µg/l	0.01	ISO 17025			
Butyl benzyl phthalate	µg/l	0.05	NONE			
Benzo(a)anthracene	µg/l	0.01	ISO 17025			
Chrysene	µg/l	0.01	ISO 17025			
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025			
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025			
Benzo(a)pyrene	µg/l	0.01	ISO 17025			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025			
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025			
Benzo(ghi)perylene	µg/l	0.01	ISO 17025			

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-75465

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025

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Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74953

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	19/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	2 leachate samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74953

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				463063	463064			
Sample Reference				BH101	BH101			
Sample Number				None Supplied	None Supplied			
Depth (m)				4.50	7.00			
Date Sampled				18/06/2015	19/06/2015			
Time Taken				1210	0830			
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	< 0.01	< 0.01			
Acenaphthylene	µg/l	0.01	NONE	< 0.01	< 0.01			
Acenaphthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Fluorene	µg/l	0.01	NONE	< 0.01	< 0.01			
Phenanthrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Chrysene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01			
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2			
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	4.1	9.7			
Barium (dissolved)	µg/l	0.05	ISO 17025	19	20			
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2			
Boron (dissolved)	µg/l	10	ISO 17025	180	150			
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08			
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.6	1.9			
Copper (dissolved)	µg/l	0.7	ISO 17025	2.5	6.6			
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0	< 1.0			
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5			
Nickel (dissolved)	µg/l	0.3	ISO 17025	0.9	3.3			
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0			
Vanadium (dissolved)	µg/l	1.7	ISO 17025	5.1	66			
Zinc (dissolved)	µg/l	0.4	ISO 17025	7.4	3.8			

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Analytical Report Number: 15-74953

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				463063	463064			
Sample Reference				BH101	BH101			
Sample Number				None Supplied	None Supplied			
Depth (m)				4.50	7.00			
Date Sampled				18/06/2015	19/06/2015			
Time Taken				1210	0830			
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0	< 1.0			
Toluene	µg/l	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/l	1	NONE	< 1.0	< 1.0			
p & m-xylene	µg/l	1	NONE	< 1.0	< 1.0			
o-xylene	µg/l	1	NONE	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10			

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Analytical Report Number : 15-74953

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74932

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	24/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	1 leachate sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74932

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462993				
Sample Reference				WS101				
Sample Number				None Supplied				
Depth (m)				5.60				
Date Sampled				23/06/2015				
Time Taken				1600				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	< 0.01				
Acenaphthylene	µg/l	0.01	NONE	< 0.01				
Acenaphthene	µg/l	0.01	NONE	< 0.01				
Fluorene	µg/l	0.01	NONE	< 0.01				
Phenanthrene	µg/l	0.01	NONE	< 0.01				
Anthracene	µg/l	0.01	NONE	< 0.01				
Fluoranthene	µg/l	0.01	NONE	< 0.01				
Pyrene	µg/l	0.01	NONE	< 0.01				
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01				
Chrysene	µg/l	0.01	NONE	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2				
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	< 1.1				
Barium (dissolved)	µg/l	0.05	ISO 17025	78				
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Boron (dissolved)	µg/l	10	ISO 17025	41				
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08				
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4				
Copper (dissolved)	µg/l	0.7	ISO 17025	3.2				
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0				
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5				
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.6				
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0				
Vanadium (dissolved)	µg/l	1.7	ISO 17025	3.9				
Zinc (dissolved)	µg/l	0.4	ISO 17025	1.9				

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Analytical Report Number: 15-74932

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462993				
Sample Reference				WS101				
Sample Number				None Supplied				
Depth (m)				5.60				
Date Sampled				23/06/2015				
Time Taken				1600				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0				
Toluene	µg/l	1	NONE	< 1.0				
Ethylbenzene	µg/l	1	NONE	< 1.0				
p & m-xylene	µg/l	1	NONE	< 1.0				
o-xylene	µg/l	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				

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Analytical Report Number : 15-74932

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74930

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	23/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	1 leachate sample - 1 soil sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74930

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462990				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				21.00				
Date Sampled				22/06/2015				
Time Taken				1525				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	11				
Total mass of sample received	kg	0.001	NONE	2.0				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	NONE	8.1				
Electrical Conductivity	µS/cm	10	NONE	2400				
Total Cyanide	mg/kg	1	NONE	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	NONE	510				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	NONE	0.31				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	NONE	310				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	NONE	0.16				
Sulphide	mg/kg	1	NONE	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	NONE	2400				
Ammoniacal Nitrogen as N	mg/kg	0.5	NONE	1.8				
Organic Matter	%	0.1	NONE	< 0.1				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	NONE	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	NONE	< 0.05				
Acenaphthylene	mg/kg	0.1	NONE	< 0.10				
Acenaphthene	mg/kg	0.1	NONE	< 0.10				
Fluorene	mg/kg	0.1	NONE	< 0.10				
Phenanthrene	mg/kg	0.1	NONE	< 0.10				
Anthracene	mg/kg	0.1	NONE	< 0.10				
Fluoranthene	mg/kg	0.1	NONE	< 0.10				
Pyrene	mg/kg	0.1	NONE	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	NONE	< 0.10				
Chrysene	mg/kg	0.05	NONE	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	NONE	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	NONE	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	NONE	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	NONE	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74930

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462990				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				21.00				
Date Sampled				22/06/2015				
Time Taken				1525				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	510				
Antimony (aqua regia extractable)	mg/kg	1	NONE	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	NONE	< 1.0				
Barium (aqua regia extractable)	mg/kg	1	NONE	10				
Beryllium (aqua regia extractable)	mg/kg	0.06	NONE	< 0.1				
Boron (water soluble)	mg/kg	0.2	NONE	0.9				
Cadmium (aqua regia extractable)	mg/kg	0.2	NONE	< 0.2				
Chromium (hexavalent)	mg/kg	4	NONE	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	NONE	2.9				
Copper (aqua regia extractable)	mg/kg	1	NONE	7.5				
Iron (aqua regia extractable)	mg/kg	40	NONE	2400				
Lead (aqua regia extractable)	mg/kg	1	NONE	9.3				
Manganese (aqua regia extractable)	mg/kg	1	NONE	230				
Mercury (aqua regia extractable)	mg/kg	0.3	NONE	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	NONE	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	NONE	4.4				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	360				
Selenium (aqua regia extractable)	mg/kg	1	NONE	2.8				
Vanadium (aqua regia extractable)	mg/kg	1	NONE	4.9				
Zinc (aqua regia extractable)	mg/kg	1	NONE	13				
Calcium (aqua regia extractable)	mg/kg	20	NONE	460000				
Magnesium (aqua regia extractable)	mg/kg	20	NONE	1200				
Potassium (aqua regia extractable)	mg/kg	20	NONE	270				
Monoaromatics								
Benzene	µg/kg	1	NONE	< 1.0				
Toluene	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	NONE	< 1.0				
p & m-xylene	µg/kg	1	NONE	< 1.0				
o-xylene	µg/kg	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	NONE	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	NONE	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	NONE	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	NONE	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	NONE	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	NONE	< 10				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	NONE	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	NONE	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	NONE	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	NONE	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	NONE	< 10				

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Analytical Report Number: 15-74930

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462990				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				21.00				
Date Sampled				22/06/2015				
Time Taken				1525				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	NONE	< 1.0				
Chloroethane	µg/kg	1	NONE	< 1.0				
Bromomethane	µg/kg	1	NONE	< 1.0				
Vinyl Chloride	µg/kg	1	NONE	< 1.0				
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0				
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	NONE	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	NONE	< 1.0				
1,1-Dichloroethane	µg/kg	1	NONE	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	NONE	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	NONE	< 1.0				
1,2-Dichloroethane	µg/kg	1	NONE	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	NONE	< 1.0				
Tetrachloromethane	µg/kg	1	NONE	< 1.0				
1,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloroethene	µg/kg	1	NONE	< 1.0				
Dibromomethane	µg/kg	1	NONE	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	NONE	< 1.0				
Toluene	µg/kg	1	NONE	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	NONE	< 1.0				
1,3-Dichloropropane	µg/kg	1	NONE	< 1.0				
Dibromochloromethane	µg/kg	1	NONE	< 1.0				
Tetrachloroethene	µg/kg	1	NONE	< 1.0				
1,2-Dibromoethane	µg/kg	1	NONE	< 1.0				
Chlorobenzene	µg/kg	1	NONE	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	NONE	< 1.0				
p & m-Xylene	µg/kg	1	NONE	< 1.0				
Styrene	µg/kg	1	NONE	< 1.0				
Tribromomethane	µg/kg	1	NONE	< 1.0				
o-Xylene	µg/kg	1	NONE	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	NONE	< 1.0				
n-Propylbenzene	µg/kg	1	NONE	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	NONE	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	NONE	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	NONE	< 1.0				
p-Isopropyltoluene	µg/kg	1	NONE	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	NONE	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	NONE	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	NONE	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	NONE	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74930

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462990				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				21.00				
Date Sampled				22/06/2015				
Time Taken				1525				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	NONE	< 0.2				
2-Chlorophenol	mg/kg	0.1	NONE	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	NONE	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	NONE	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	NONE	< 0.1				
2-Methylphenol	mg/kg	0.3	NONE	< 0.3				
Hexachloroethane	mg/kg	0.05	NONE	< 0.05				
Nitrobenzene	mg/kg	0.3	NONE	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	NONE	< 0.2				
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	NONE	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	NONE	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	NONE	< 0.3				
Naphthalene	mg/kg	0.05	NONE	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	NONE	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	NONE	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	NONE	< 0.1				
Dimethylphthalate	mg/kg	0.1	NONE	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1				
Acenaphthylene	mg/kg	0.1	NONE	< 0.10				
Acenaphthene	mg/kg	0.1	NONE	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2				
Dibenzofuran	mg/kg	0.2	NONE	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	NONE	< 0.3				
Diethyl phthalate	mg/kg	0.2	NONE	< 0.2				
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2				
Fluorene	mg/kg	0.1	NONE	< 0.10				
Azobenzene	mg/kg	0.3	NONE	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	NONE	< 0.2				
Hexachlorobenzene	mg/kg	0.3	NONE	< 0.3				
Phenanthrene	mg/kg	0.1	NONE	< 0.10				
Anthracene	mg/kg	0.1	NONE	< 0.10				
Carbazole	mg/kg	0.3	NONE	< 0.3				
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2				
Anthraquinone	mg/kg	0.3	NONE	< 0.3				
Fluoranthene	mg/kg	0.1	NONE	< 0.10				
Pyrene	mg/kg	0.1	NONE	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	NONE	< 0.10				
Chrysene	mg/kg	0.05	NONE	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	NONE	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	NONE	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	NONE	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	NONE	< 0.05				

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Analytical Report Number: 15-74930

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462991				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				21.00				
Date Sampled				22/06/2015				
Time Taken				1525				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	< 0.01				
Acenaphthylene	µg/l	0.01	NONE	< 0.01				
Acenaphthene	µg/l	0.01	NONE	< 0.01				
Fluorene	µg/l	0.01	NONE	< 0.01				
Phenanthrene	µg/l	0.01	NONE	< 0.01				
Anthracene	µg/l	0.01	NONE	< 0.01				
Fluoranthene	µg/l	0.01	NONE	< 0.01				
Pyrene	µg/l	0.01	NONE	< 0.01				
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01				
Chrysene	µg/l	0.01	NONE	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2				
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	3.6				
Barium (dissolved)	µg/l	0.05	ISO 17025	94				
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Boron (dissolved)	µg/l	10	ISO 17025	13				
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08				
Chromium (dissolved)	µg/l	0.4	ISO 17025	3.7				
Copper (dissolved)	µg/l	0.7	ISO 17025	1.1				
Lead (dissolved)	µg/l	1	ISO 17025	1.4				
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5				
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.1				
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0				
Zinc (dissolved)	µg/l	0.4	ISO 17025	8.5				

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Analytical Report Number: 15-74930

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462991				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				21.00				
Date Sampled				22/06/2015				
Time Taken				1525				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0				
Toluene	µg/l	1	NONE	< 1.0				
Ethylbenzene	µg/l	1	NONE	< 1.0				
p & m-xylene	µg/l	1	NONE	< 1.0				
o-xylene	µg/l	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				

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Analytical Report Number : 15-74930

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
462990	BH101	None Supplied	21.00	Grey chalk with gravel.**

**Non MCERTS matrix

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Analytical Report Number : 15-74930

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS

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Analytical Report Number : 15-74930

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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i2 Job Number
15-74930_1 SD

Sample Deviation Report

Sample ID		BH101
Other ID		
Sample Type		S
Job Number		15-74930
Sample Number		462990
Deviation Code		c
Test Name	**Method no**	
BTEX and MTBE in soil	L073S-PL	c
Complex cyanide in soil	L080-PL	c
Free cyanide in soil	L080-PL	c
Sulphide in soil	L010-PL	c
Total cyanide in soil	L080-PL	c
TPHCWG (Soil)	L076-PL	c
Volatile organic compounds in soil	L073S-PL	c

Key: a - No sampling date b - Incorrect container
c - Holding time d - Headspace e - Temperature

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7 Woodshots Meadow,
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t: 01923 225404
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Analytical Report Number : 15-74927

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	10/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	1 leachate sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74927

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462987				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				7.00				
Date Sampled				10/06/2015				
Time Taken				0950				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	1.4				
Acenaphthylene	µg/l	0.01	NONE	1.1				
Acenaphthene	µg/l	0.01	NONE	0.53				
Fluorene	µg/l	0.01	NONE	0.47				
Phenanthrene	µg/l	0.01	NONE	0.68				
Anthracene	µg/l	0.01	NONE	0.16				
Fluoranthene	µg/l	0.01	NONE	< 0.01				
Pyrene	µg/l	0.01	NONE	< 0.01				
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01				
Chrysene	µg/l	0.01	NONE	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	4.3				
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	< 1.1				
Barium (dissolved)	µg/l	0.05	ISO 17025	80				
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Boron (dissolved)	µg/l	10	ISO 17025	27				
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08				
Chromium (dissolved)	µg/l	0.4	ISO 17025	6.1				
Copper (dissolved)	µg/l	0.7	ISO 17025	2.7				
Lead (dissolved)	µg/l	1	ISO 17025	1.8				
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5				
Nickel (dissolved)	µg/l	0.3	ISO 17025	< 0.3				
Selenium (dissolved)	µg/l	4	ISO 17025	14				
Vanadium (dissolved)	µg/l	1.7	ISO 17025	7.1				
Zinc (dissolved)	µg/l	0.4	ISO 17025	2.8				

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Analytical Report Number: 15-74927

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462987				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				7.00				
Date Sampled				10/06/2015				
Time Taken				0950				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0				
Toluene	µg/l	1	NONE	< 1.0				
Ethylbenzene	µg/l	1	NONE	< 1.0				
p & m-xylene	µg/l	1	NONE	< 1.0				
o-xylene	µg/l	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	84				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	230				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	110				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	420				

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Analytical Report Number : 15-74927

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74920

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	1 leachate sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74920

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462909				
Sample Reference				WS102				
Sample Number				None Supplied				
Depth (m)				4.20				
Date Sampled				24/06/2015				
Time Taken				1625				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	< 0.01				
Acenaphthylene	µg/l	0.01	NONE	< 0.01				
Acenaphthene	µg/l	0.01	NONE	< 0.01				
Fluorene	µg/l	0.01	NONE	< 0.01				
Phenanthrene	µg/l	0.01	NONE	< 0.01				
Anthracene	µg/l	0.01	NONE	< 0.01				
Fluoranthene	µg/l	0.01	NONE	< 0.01				
Pyrene	µg/l	0.01	NONE	< 0.01				
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01				
Chrysene	µg/l	0.01	NONE	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2				
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	< 1.1				
Barium (dissolved)	µg/l	0.05	ISO 17025	40				
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Boron (dissolved)	µg/l	10	ISO 17025	< 10				
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08				
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4				
Copper (dissolved)	µg/l	0.7	ISO 17025	2.0				
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0				
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5				
Nickel (dissolved)	µg/l	0.3	ISO 17025	0.4				
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0				
Vanadium (dissolved)	µg/l	1.7	ISO 17025	< 1.7				
Zinc (dissolved)	µg/l	0.4	ISO 17025	1.2				

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Analytical Report Number: 15-74920

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462909				
Sample Reference				WS102				
Sample Number				None Supplied				
Depth (m)				4.20				
Date Sampled				24/06/2015				
Time Taken				1625				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0				
Toluene	µg/l	1	NONE	< 1.0				
Ethylbenzene	µg/l	1	NONE	< 1.0				
p & m-xylene	µg/l	1	NONE	< 1.0				
o-xylene	µg/l	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				

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Analytical Report Number : 15-74920

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74919

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	29/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	2 leachate samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74919

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462907	462908			
Sample Reference				BH203	BH203			
Sample Number				None Supplied	None Supplied			
Depth (m)				5.00	13.00			
Date Sampled				29/06/2015	29/06/2015			
Time Taken				1525	1610			
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	< 0.01	< 0.01			
Acenaphthylene	µg/l	0.01	NONE	< 0.01	< 0.01			
Acenaphthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Fluorene	µg/l	0.01	NONE	< 0.01	< 0.01			
Phenanthrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Chrysene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01			
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2			
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	< 1.1	3.7			
Barium (dissolved)	µg/l	0.05	ISO 17025	260	34			
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2			
Boron (dissolved)	µg/l	10	ISO 17025	< 10	68			
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08			
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.6	1.4			
Copper (dissolved)	µg/l	0.7	ISO 17025	2.6	2.4			
Lead (dissolved)	µg/l	1	ISO 17025	3.9	2.0			
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5			
Nickel (dissolved)	µg/l	0.3	ISO 17025	0.4	1.4			
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0			
Vanadium (dissolved)	µg/l	1.7	ISO 17025	31	18			
Zinc (dissolved)	µg/l	0.4	ISO 17025	0.6	2.3			

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74919

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462907	462908			
Sample Reference				BH203	BH203			
Sample Number				None Supplied	None Supplied			
Depth (m)				5.00	13.00			
Date Sampled				29/06/2015	29/06/2015			
Time Taken				1525	1610			
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0	< 1.0			
Toluene	µg/l	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/l	1	NONE	< 1.0	< 1.0			
p & m-xylene	µg/l	1	NONE	< 1.0	< 1.0			
o-xylene	µg/l	1	NONE	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	18			
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	170			
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	540			
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	1200			
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	2000			
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	200			
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	520			
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	1500			
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	2300			

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Analytical Report Number : 15-74919

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74917

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	29/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	1 leachate sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74917

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462899				
Sample Reference				WS204				
Sample Number				None Supplied				
Depth (m)				4.45				
Date Sampled				29/06/2015				
Time Taken				1235				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	< 0.01				
Acenaphthylene	µg/l	0.01	NONE	< 0.01				
Acenaphthene	µg/l	0.01	NONE	< 0.01				
Fluorene	µg/l	0.01	NONE	< 0.01				
Phenanthrene	µg/l	0.01	NONE	< 0.01				
Anthracene	µg/l	0.01	NONE	< 0.01				
Fluoranthene	µg/l	0.01	NONE	< 0.01				
Pyrene	µg/l	0.01	NONE	< 0.01				
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01				
Chrysene	µg/l	0.01	NONE	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2				
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	7.1				
Barium (dissolved)	µg/l	0.05	ISO 17025	32				
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Boron (dissolved)	µg/l	10	ISO 17025	170				
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08				
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.5				
Copper (dissolved)	µg/l	0.7	ISO 17025	4.4				
Lead (dissolved)	µg/l	1	ISO 17025	3.5				
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5				
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.9				
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0				
Vanadium (dissolved)	µg/l	1.7	ISO 17025	35				
Zinc (dissolved)	µg/l	0.4	ISO 17025	2.1				

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Analytical Report Number: 15-74917

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462899				
Sample Reference				WS204				
Sample Number				None Supplied				
Depth (m)				4.45				
Date Sampled				29/06/2015				
Time Taken				1235				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0				
Toluene	µg/l	1	NONE	< 1.0				
Ethylbenzene	µg/l	1	NONE	< 1.0				
p & m-xylene	µg/l	1	NONE	< 1.0				
o-xylene	µg/l	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				

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Analytical Report Number : 15-74917

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74915

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	1 leachate sample - 1 soil sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74915

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462875				
Sample Reference				BH204				
Sample Number				None Supplied				
Depth (m)				13.00				
Date Sampled				24/06/2015				
Time Taken				1240				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	15				
Total mass of sample received	kg	0.001	NONE	1.4				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	NONE	8.2				
Electrical Conductivity	µS/cm	10	NONE	210				
Total Cyanide	mg/kg	1	NONE	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	NONE	670				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	NONE	0.085				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	NONE	85				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	NONE	0.043				
Sulphide	mg/kg	1	NONE	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	NONE	84				
Ammoniacal Nitrogen as N	mg/kg	0.5	NONE	< 0.5				
Organic Matter	%	0.1	NONE	0.1				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	NONE	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	NONE	< 0.05				
Acenaphthylene	mg/kg	0.1	NONE	< 0.10				
Acenaphthene	mg/kg	0.1	NONE	< 0.10				
Fluorene	mg/kg	0.1	NONE	< 0.10				
Phenanthrene	mg/kg	0.1	NONE	< 0.10				
Anthracene	mg/kg	0.1	NONE	< 0.10				
Fluoranthene	mg/kg	0.1	NONE	< 0.10				
Pyrene	mg/kg	0.1	NONE	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	NONE	< 0.10				
Chrysene	mg/kg	0.05	NONE	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	NONE	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	NONE	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	NONE	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	NONE	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Analytical Report Number: 15-74915

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462875				
Sample Reference				BH204				
Sample Number				None Supplied				
Depth (m)				13.00				
Date Sampled				24/06/2015				
Time Taken				1240				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	500				
Antimony (aqua regia extractable)	mg/kg	1	NONE	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	NONE	1.6				
Barium (aqua regia extractable)	mg/kg	1	NONE	11				
Beryllium (aqua regia extractable)	mg/kg	0.06	NONE	< 0.1				
Boron (water soluble)	mg/kg	0.2	NONE	0.5				
Cadmium (aqua regia extractable)	mg/kg	0.2	NONE	< 0.2				
Chromium (hexavalent)	mg/kg	4	NONE	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	NONE	1.7				
Copper (aqua regia extractable)	mg/kg	1	NONE	3.6				
Iron (aqua regia extractable)	mg/kg	40	NONE	1100				
Lead (aqua regia extractable)	mg/kg	1	NONE	< 1.0				
Manganese (aqua regia extractable)	mg/kg	1	NONE	220				
Mercury (aqua regia extractable)	mg/kg	0.3	NONE	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	NONE	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	NONE	1.3				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	510				
Selenium (aqua regia extractable)	mg/kg	1	NONE	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	NONE	2.9				
Zinc (aqua regia extractable)	mg/kg	1	NONE	9.4				
Calcium (aqua regia extractable)	mg/kg	20	NONE	640000				
Magnesium (aqua regia extractable)	mg/kg	20	NONE	1300				
Potassium (aqua regia extractable)	mg/kg	20	NONE	180				
Monoaromatics								
Benzene	µg/kg	1	NONE	< 1.0				
Toluene	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	NONE	< 1.0				
p & m-xylene	µg/kg	1	NONE	< 1.0				
o-xylene	µg/kg	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	NONE	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	NONE	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	NONE	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	NONE	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	NONE	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	NONE	< 10				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	NONE	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	NONE	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	NONE	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	NONE	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	NONE	< 10				

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Analytical Report Number: 15-74915

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462875				
Sample Reference				BH204				
Sample Number				None Supplied				
Depth (m)				13.00				
Date Sampled				24/06/2015				
Time Taken				1240				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	NONE	< 1.0				
Chloroethane	µg/kg	1	NONE	< 1.0				
Bromomethane	µg/kg	1	NONE	< 1.0				
Vinyl Chloride	µg/kg	1	NONE	< 1.0				
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0				
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	NONE	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	NONE	< 1.0				
1,1-Dichloroethane	µg/kg	1	NONE	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	NONE	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	NONE	< 1.0				
1,2-Dichloroethane	µg/kg	1	NONE	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	NONE	< 1.0				
Tetrachloromethane	µg/kg	1	NONE	< 1.0				
1,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloroethene	µg/kg	1	NONE	< 1.0				
Dibromomethane	µg/kg	1	NONE	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	NONE	< 1.0				
Toluene	µg/kg	1	NONE	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	NONE	< 1.0				
1,3-Dichloropropane	µg/kg	1	NONE	< 1.0				
Dibromochloromethane	µg/kg	1	NONE	< 1.0				
Tetrachloroethene	µg/kg	1	NONE	< 1.0				
1,2-Dibromoethane	µg/kg	1	NONE	< 1.0				
Chlorobenzene	µg/kg	1	NONE	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	NONE	< 1.0				
p & m-Xylene	µg/kg	1	NONE	< 1.0				
Styrene	µg/kg	1	NONE	< 1.0				
Tribromomethane	µg/kg	1	NONE	< 1.0				
o-Xylene	µg/kg	1	NONE	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	NONE	< 1.0				
n-Propylbenzene	µg/kg	1	NONE	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	NONE	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	NONE	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	NONE	< 1.0				
p-Isopropyltoluene	µg/kg	1	NONE	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	NONE	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	NONE	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	NONE	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	NONE	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74915

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462875				
Sample Reference				BH204				
Sample Number				None Supplied				
Depth (m)				13.00				
Date Sampled				24/06/2015				
Time Taken				1240				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	NONE	< 0.2				
2-Chlorophenol	mg/kg	0.1	NONE	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	NONE	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	NONE	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	NONE	< 0.1				
2-Methylphenol	mg/kg	0.3	NONE	< 0.3				
Hexachloroethane	mg/kg	0.05	NONE	< 0.05				
Nitrobenzene	mg/kg	0.3	NONE	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	NONE	< 0.2				
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	NONE	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	NONE	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	NONE	< 0.3				
Naphthalene	mg/kg	0.05	NONE	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	NONE	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	NONE	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	NONE	< 0.1				
Dimethylphthalate	mg/kg	0.1	NONE	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1				
Acenaphthylene	mg/kg	0.1	NONE	< 0.10				
Acenaphthene	mg/kg	0.1	NONE	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2				
Dibenzofuran	mg/kg	0.2	NONE	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	NONE	< 0.3				
Diethyl phthalate	mg/kg	0.2	NONE	< 0.2				
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2				
Fluorene	mg/kg	0.1	NONE	< 0.10				
Azobenzene	mg/kg	0.3	NONE	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	NONE	< 0.2				
Hexachlorobenzene	mg/kg	0.3	NONE	< 0.3				
Phenanthrene	mg/kg	0.1	NONE	< 0.10				
Anthracene	mg/kg	0.1	NONE	< 0.10				
Carbazole	mg/kg	0.3	NONE	< 0.3				
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2				
Anthraquinone	mg/kg	0.3	NONE	< 0.3				
Fluoranthene	mg/kg	0.1	NONE	< 0.10				
Pyrene	mg/kg	0.1	NONE	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	NONE	< 0.10				
Chrysene	mg/kg	0.05	NONE	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	NONE	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	NONE	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	NONE	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	NONE	< 0.05				

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Analytical Report Number: 15-74915

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462874				
Sample Reference				BH204				
Sample Number				None Supplied				
Depth (m)				6.70				
Date Sampled				24/06/2015				
Time Taken				0910				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	< 0.01				
Acenaphthylene	µg/l	0.01	NONE	< 0.01				
Acenaphthene	µg/l	0.01	NONE	< 0.01				
Fluorene	µg/l	0.01	NONE	< 0.01				
Phenanthrene	µg/l	0.01	NONE	< 0.01				
Anthracene	µg/l	0.01	NONE	< 0.01				
Fluoranthene	µg/l	0.01	NONE	< 0.01				
Pyrene	µg/l	0.01	NONE	< 0.01				
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01				
Chrysene	µg/l	0.01	NONE	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2				
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	12				
Barium (dissolved)	µg/l	0.05	ISO 17025	11				
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Boron (dissolved)	µg/l	10	ISO 17025	58				
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08				
Chromium (dissolved)	µg/l	0.4	ISO 17025	4.0				
Copper (dissolved)	µg/l	0.7	ISO 17025	21				
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0				
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5				
Nickel (dissolved)	µg/l	0.3	ISO 17025	4.2				
Selenium (dissolved)	µg/l	4	ISO 17025	7.1				
Vanadium (dissolved)	µg/l	1.7	ISO 17025	21				
Zinc (dissolved)	µg/l	0.4	ISO 17025	4.9				

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74915

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462874				
Sample Reference				BH204				
Sample Number				None Supplied				
Depth (m)				6.70				
Date Sampled				24/06/2015				
Time Taken				0910				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0				
Toluene	µg/l	1	NONE	< 1.0				
Ethylbenzene	µg/l	1	NONE	< 1.0				
p & m-xylene	µg/l	1	NONE	6.6				
o-xylene	µg/l	1	NONE	2.1				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				

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Analytical Report Number : 15-74915

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
462875	BH204	None Supplied	13.00	White chalk.**

**Non MCERTS matrix

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Analytical Report Number : 15-74915

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS

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Analytical Report Number : 15-74915

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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i2 Job Number
15-74915_1 SD

Sample Deviation Report

Sample ID		BH204
Other ID		
Sample Type		S
Job Number		15-74915
Sample Number		462875
Deviation Code		c
Test Name	**Method no**	
BTEX and MTBE in soil	L073S-PL	c
Complex cyanide in soil	L080-PL	c
Free cyanide in soil	L080-PL	c
Sulphide in soil	L010-PL	c
Total cyanide in soil	L080-PL	c
TPHCWG (Soil)	L076-PL	c
Volatile organic compounds in soil	L073S-PL	c

Key: a - No sampling date b - Incorrect container
c - Holding time d - Headspace e - Temperature

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7 Woodshots Meadow,
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Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	11/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	1 soil sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74904

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462802				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				21.60				
Date Sampled				16/06/2015				
Time Taken				0920				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	23				
Total mass of sample received	kg	0.001	NONE	1.7				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	NONE	7.8				
Electrical Conductivity	µS/cm	10	NONE	1500				
Total Cyanide	mg/kg	1	NONE	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	NONE	610				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	NONE	0.27				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	NONE	270				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	NONE	0.13				
Sulphide	mg/kg	1	NONE	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	NONE	2200				
Ammoniacal Nitrogen as N	mg/kg	0.5	NONE	< 0.5				
Organic Matter	%	0.1	NONE	0.2				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	NONE	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	NONE	< 0.05				
Acenaphthylene	mg/kg	0.1	NONE	< 0.10				
Acenaphthene	mg/kg	0.1	NONE	< 0.10				
Fluorene	mg/kg	0.1	NONE	< 0.10				
Phenanthrene	mg/kg	0.1	NONE	< 0.10				
Anthracene	mg/kg	0.1	NONE	< 0.10				
Fluoranthene	mg/kg	0.1	NONE	< 0.10				
Pyrene	mg/kg	0.1	NONE	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	NONE	< 0.10				
Chrysene	mg/kg	0.05	NONE	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	NONE	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	NONE	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	NONE	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	NONE	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Analytical Report Number: 15-74904

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462802				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				21.60				
Date Sampled				16/06/2015				
Time Taken				0920				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	510				
Antimony (aqua regia extractable)	mg/kg	1	NONE	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	NONE	< 1.0				
Barium (aqua regia extractable)	mg/kg	1	NONE	12				
Beryllium (aqua regia extractable)	mg/kg	0.06	NONE	< 0.1				
Boron (water soluble)	mg/kg	0.2	NONE	0.2				
Cadmium (aqua regia extractable)	mg/kg	0.2	NONE	< 0.2				
Chromium (hexavalent)	mg/kg	4	NONE	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	NONE	1.7				
Copper (aqua regia extractable)	mg/kg	1	NONE	3.6				
Iron (aqua regia extractable)	mg/kg	40	NONE	790				
Lead (aqua regia extractable)	mg/kg	1	NONE	1.5				
Manganese (aqua regia extractable)	mg/kg	1	NONE	200				
Mercury (aqua regia extractable)	mg/kg	0.3	NONE	0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	NONE	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	NONE	9.5				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	390				
Selenium (aqua regia extractable)	mg/kg	1	NONE	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	NONE	3.6				
Zinc (aqua regia extractable)	mg/kg	1	NONE	11				
Calcium (aqua regia extractable)	mg/kg	20	NONE	690000				
Magnesium (aqua regia extractable)	mg/kg	20	NONE	1400				
Potassium (aqua regia extractable)	mg/kg	20	NONE	170				
Monoaromatics								
Benzene	µg/kg	1	NONE	< 1.0				
Toluene	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	NONE	< 1.0				
p & m-xylene	µg/kg	1	NONE	< 1.0				
o-xylene	µg/kg	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	NONE	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	NONE	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	NONE	3.4				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	NONE	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	NONE	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	NONE	< 10				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	NONE	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	NONE	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	NONE	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	NONE	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	NONE	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	NONE	< 10				

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Analytical Report Number: 15-74904

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462802				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				21.60				
Date Sampled				16/06/2015				
Time Taken				0920				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	NONE	< 1.0				
Chloroethane	µg/kg	1	NONE	< 1.0				
Bromomethane	µg/kg	1	NONE	< 1.0				
Vinyl Chloride	µg/kg	1	NONE	< 1.0				
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0				
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	NONE	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	NONE	< 1.0				
1,1-Dichloroethane	µg/kg	1	NONE	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	NONE	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	NONE	< 1.0				
1,2-Dichloroethane	µg/kg	1	NONE	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	NONE	< 1.0				
Tetrachloromethane	µg/kg	1	NONE	< 1.0				
1,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloroethene	µg/kg	1	NONE	< 1.0				
Dibromomethane	µg/kg	1	NONE	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	NONE	< 1.0				
Toluene	µg/kg	1	NONE	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	NONE	< 1.0				
1,3-Dichloropropane	µg/kg	1	NONE	< 1.0				
Dibromochloromethane	µg/kg	1	NONE	< 1.0				
Tetrachloroethene	µg/kg	1	NONE	< 1.0				
1,2-Dibromoethane	µg/kg	1	NONE	< 1.0				
Chlorobenzene	µg/kg	1	NONE	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	NONE	< 1.0				
p & m-Xylene	µg/kg	1	NONE	< 1.0				
Styrene	µg/kg	1	NONE	< 1.0				
Tribromomethane	µg/kg	1	NONE	< 1.0				
o-Xylene	µg/kg	1	NONE	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	NONE	< 1.0				
n-Propylbenzene	µg/kg	1	NONE	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	NONE	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	NONE	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	NONE	< 1.0				
p-Isopropyltoluene	µg/kg	1	NONE	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	NONE	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	NONE	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	NONE	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	NONE	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74904

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462802				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				21.60				
Date Sampled				16/06/2015				
Time Taken				0920				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	NONE	< 0.2				
2-Chlorophenol	mg/kg	0.1	NONE	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	NONE	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	NONE	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	NONE	< 0.1				
2-Methylphenol	mg/kg	0.3	NONE	< 0.3				
Hexachloroethane	mg/kg	0.05	NONE	< 0.05				
Nitrobenzene	mg/kg	0.3	NONE	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	NONE	< 0.2				
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	NONE	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	NONE	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	NONE	< 0.3				
Naphthalene	mg/kg	0.05	NONE	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	NONE	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	NONE	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	NONE	< 0.1				
Dimethylphthalate	mg/kg	0.1	NONE	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1				
Acenaphthylene	mg/kg	0.1	NONE	< 0.10				
Acenaphthene	mg/kg	0.1	NONE	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2				
Dibenzofuran	mg/kg	0.2	NONE	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	NONE	< 0.3				
Diethyl phthalate	mg/kg	0.2	NONE	< 0.2				
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2				
Fluorene	mg/kg	0.1	NONE	< 0.10				
Azobenzene	mg/kg	0.3	NONE	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	NONE	< 0.2				
Hexachlorobenzene	mg/kg	0.3	NONE	< 0.3				
Phenanthrene	mg/kg	0.1	NONE	< 0.10				
Anthracene	mg/kg	0.1	NONE	< 0.10				
Carbazole	mg/kg	0.3	NONE	< 0.3				
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2				
Anthraquinone	mg/kg	0.3	NONE	< 0.3				
Fluoranthene	mg/kg	0.1	NONE	< 0.10				
Pyrene	mg/kg	0.1	NONE	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	NONE	< 0.10				
Chrysene	mg/kg	0.05	NONE	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	NONE	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	NONE	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	NONE	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	NONE	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	NONE	< 0.05				

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Analytical Report Number : 15-74904

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
462802	BH202	None Supplied	21.60	White chalk.**

**Non MCERTS matrix

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Analytical Report Number : 15-74904

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74904

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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i2 Job Number
15-74904_1 SD

Sample Deviation Report

Sample ID		BH202
Other ID		
Sample Type		S
Job Number		15-74904
Sample Number		462802
Deviation Code		c
Test Name	**Method no**	
Complex cyanide in soil	L080-PL	c
Free cyanide in soil	L080-PL	c
Monohydric phenols in soil	L080-PL	c
Semi-volatile organic compounds in soil	L064-PL	c
Speciated WAC-17 PAHs in soil	L064-PL	c
Sulphide in soil	L010-PL	c
Total cyanide in soil	L080-PL	c
Total oxidised nitrogen in soil		c
Volatile organic compounds in soil	L073S-PL	c
BTEX and MTBE in soil	L073S-PL	c
Speciated WAC-17 PAHs in soil	L064-PL	c
Ammoniacal Nitrogen as N in soil	L082-PL	c
TPHCWG (Soil)	L076-PL	c
Volatile organic compounds in soil	L073S-PL	c

Key: a - No sampling date b - Incorrect container
c - Holding time d - Headspace e - Temperature

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Analytical Report Number : 15-74902

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	07/07/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	1 leachate sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74902

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462800				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				11.50				
Date Sampled				11/06/2015				
Time Taken				None Supplied				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	< 0.01				
Acenaphthylene	µg/l	0.01	NONE	< 0.01				
Acenaphthene	µg/l	0.01	NONE	< 0.01				
Fluorene	µg/l	0.01	NONE	< 0.01				
Phenanthrene	µg/l	0.01	NONE	< 0.01				
Anthracene	µg/l	0.01	NONE	< 0.01				
Fluoranthene	µg/l	0.01	NONE	< 0.01				
Pyrene	µg/l	0.01	NONE	< 0.01				
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01				
Chrysene	µg/l	0.01	NONE	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01				
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2				
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	20				
Barium (dissolved)	µg/l	0.05	ISO 17025	52				
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2				
Boron (dissolved)	µg/l	10	ISO 17025	120				
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08				
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.6				
Copper (dissolved)	µg/l	0.7	ISO 17025	9.2				
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0				
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5				
Nickel (dissolved)	µg/l	0.3	ISO 17025	2.7				
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0				
Zinc (dissolved)	µg/l	0.4	ISO 17025	3.1				

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Analytical Report Number: 15-74902

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462800				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				11.50				
Date Sampled				11/06/2015				
Time Taken				None Supplied				
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0				
Toluene	µg/l	1	NONE	< 1.0				
Ethylbenzene	µg/l	1	NONE	< 1.0				
p & m-xylene	µg/l	1	NONE	< 1.0				
o-xylene	µg/l	1	NONE	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				

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Analytical Report Number : 15-74902

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74900

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	26/06/2015
Your job number:	30766	**Samples instructed on:**	07/07/2015
Your order number:		**Analysis completed by:**	14/07/2015
Report Issue Number:	1	**Report issued on:**	14/07/2015
Samples Analysed:	2 leachate samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74900

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462796	463176			
Sample Reference				WS202	WS202			
Sample Number				None Supplied	460461			
Depth (m)				6.70	11.70			
Date Sampled				25/06/2015	26/06/2015			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	NONE	< 0.01	< 0.01			
Acenaphthylene	µg/l	0.01	NONE	< 0.01	< 0.01			
Acenaphthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Fluorene	µg/l	0.01	NONE	< 0.01	< 0.01			
Phenanthrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Chrysene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01			
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01			
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01			
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2			
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1.1	ISO 17025	< 1.1	8.8			
Barium (dissolved)	µg/l	0.05	ISO 17025	440	30			
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2			
Boron (dissolved)	µg/l	10	ISO 17025	12	170			
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08			
Chromium (dissolved)	µg/l	0.4	ISO 17025	180	0.7			
Copper (dissolved)	µg/l	0.7	ISO 17025	7.6	2.7			
Lead (dissolved)	µg/l	1	ISO 17025	1.5	1.2			
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5			
Nickel (dissolved)	µg/l	0.3	ISO 17025	2.1	0.8			
Selenium (dissolved)	µg/l	4	ISO 17025	18	< 4.0			
Vanadium (dissolved)	µg/l	1.7	ISO 17025	12	25			
Zinc (dissolved)	µg/l	0.4	ISO 17025	1.2	1.3			

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Analytical Report Number: 15-74900

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462796	463176			
Sample Reference				WS202	WS202			
Sample Number				None Supplied	460461			
Depth (m)				6.70	11.70			
Date Sampled				25/06/2015	26/06/2015			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0	< 1.0			
Toluene	µg/l	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/l	1	NONE	< 1.0	< 1.0			
p & m-xylene	µg/l	1	NONE	< 1.0	< 1.0			
o-xylene	µg/l	1	NONE	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10			
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10			

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Analytical Report Number : 15-74900

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L073W-PL	W	NONE
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74897

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	24/06/2015
Your job number:	30766	**Samples instructed on:**	08/07/2015
Your order number:		**Analysis completed by:**	09/07/2015
Report Issue Number:	1	**Report issued on:**	09/07/2015
Samples Analysed:	1 soil sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74897

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				462770				
Sample Reference				BH501				
Sample Number				None Supplied				
Depth (m)				7.70				
Date Sampled				23/06/2015				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				

Iss No 15-74897-1

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Analytical Report Number : 15-74897

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74657

Replaces Analytical Report Number : 15-74657, issue no. 1

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	01/07/2015
Your job number:	30766	**Samples instructed on:**	03/07/2015
Your order number:		**Analysis completed by:**	09/07/2015
Report Issue Number:	2	**Report issued on:**	09/07/2015
Samples Analysed:	3 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74657

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				461260	461261	461262		
Sample Reference				BH201	BH201	BH201		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				2.90	5.80	7.20		
Date Sampled				30/06/2015	01/07/2015	01/07/2015		
Time Taken				1645	0950	1010		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	16	42	43		
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0		
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	Amosite		
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected		
Asbestos Quantification	%	0.001	ISO 17025	-	-	< 0.001		
General Inorganics								
pH	pH Units	N/A	MCERTS	11.8	11.3	11.3		
Electrical Conductivity	µS/cm	10	NONE	2400	5300	6900		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1		
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Total Sulphate as SO_4	mg/kg	50	MCERTS	30000	53000	48000		
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	3.2	7.8	10		
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	3200	7800	10000		
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	1.6	3.9	5.1		
Sulphide	mg/kg	1	MCERTS	200	86	170		
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	180	5800	9100		
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	2.9	4.1		
Organic Matter	%	0.1	MCERTS	0.2	0.2	0.4		
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0		
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20		
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0		
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	1.1	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.10	< 0.10		
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.38	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.17	< 0.10		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05		
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	1.8	< 1.6		

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Analytical Report Number: 15-74657

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				461260	461261	461262		
Sample Reference				BH201	BH201	BH201		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				2.90	5.80	7.20		
Date Sampled				30/06/2015	01/07/2015	01/07/2015		
Time Taken				1645	0950	1010		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	22000	38000	28000		
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	20	22	15		
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	350	280		
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	2.1	1.9		
Boron (water soluble)	mg/kg	0.2	MCERTS	9.0	4.5	3.8		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.5	11	12		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	30	29		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	57	78	68		
Iron (aqua regia extractable)	mg/kg	40	MCERTS	24000	17000	14000		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	150	400	390		
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	300	270	280		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.1	0.9	1.0		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	25	33	26		
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	440	470	440		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	3.8	2.6		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	42	81	67		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	270	370	500		
Calcium (aqua regia extractable)	mg/kg	20	NONE	280000	320000	310000		
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3800	3900	3700		
Potassium (aqua regia extractable)	mg/kg	20	NONE	18000	35000	31000		
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	4.9	< 2.0	< 2.0		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	19	< 8.0	< 8.0		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	92	8.7	< 8.0		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	120	< 10	< 10		
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10		

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Analytical Report Number: 15-74657

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				461260	461261	461262		
Sample Reference				BH201	BH201	BH201		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				2.90	5.80	7.20		
Date Sampled				30/06/2015	01/07/2015	01/07/2015		
Time Taken				1645	0950	1010		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		

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Analytical Report Number: 15-74657

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				461260	461261	461262		
Sample Reference				BH201	BH201	BH201		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				2.90	5.80	7.20		
Date Sampled				30/06/2015	01/07/2015	01/07/2015		
Time Taken				1645	0950	1010		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2		
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	1.1	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.10	< 0.10		
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.38	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.17	< 0.10		
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		

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Analytical Report Number: 15-74657
Project / Site name: London Paramount Entertainment Resort
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

"The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

Any material greater than 16mm is considered as Bulk sample and reported separately, asbestos content (if any) is not included in the final Quantitative analysis. The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.
Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
461262	BH201	7.20	87	Loose Fibres	**Amosite**	< 0.001	**< 0.001**

Opinions and interpretations expressed herein are outside the scope of UKAS accreditatior

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Analytical Report Number : 15-74657

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
461260	BH201	None Supplied	2.90	Light grey sandy clay with gravel and rubble.
461261	BH201	None Supplied	5.80	Light grey sandy clay with rubble.
461262	BH201	None Supplied	7.20	Grey sandy clay with vegetation.

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Analytical Report Number : 15-74657

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification	The analysis was carried out using documented in-house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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Analytical Report Number : 15-74657

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74657

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	01/07/2015
Your job number:	30766	**Samples instructed on:**	03/07/2015
Your order number:		**Analysis completed by:**	09/07/2015
Report Issue Number:	1	**Report issued on:**	09/07/2015
Samples Analysed:	3 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74657

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				461260	461261	461262		
Sample Reference				BH201	BH201	BH201		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				2.90	5.80	7.20		
Date Sampled				30/06/2015	01/07/2015	01/07/2015		
Time Taken				1645	0950	1010		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	16	42	43		
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0		
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	Amosite		
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Detected		
Asbestos Quantification	%	0.001	ISO 17025	-	-	< 0.001		
General Inorganics								
pH	pH Units	N/A	MCERTS	11.8	11.3	11.3		
Electrical Conductivity	µS/cm	10	NONE	2400	5300	6900		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1		
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Total Sulphate as SO_4	mg/kg	50	MCERTS	30000	53000	48000		
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	3.2	7.8	10		
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	3200	7800	10000		
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	1.6	3.9	5.1		
Sulphide	mg/kg	1	MCERTS	200	86	170		
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	180	5800	9100		
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	2.9	4.1		
Organic Matter	%	0.1	MCERTS	0.2	0.2	0.4		
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0		
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20		
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0		
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	1.1	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.10	< 0.10		
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.38	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.17	< 0.10		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05		
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	1.8	< 1.6		

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Lab Sample Number				461260	461261	461262		
Sample Reference				BH201	BH201	BH201		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				2.90	5.80	7.20		
Date Sampled				30/06/2015	01/07/2015	01/07/2015		
Time Taken				1645	0950	1010		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	22000	38000	28000		
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	20	22	15		
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	350	280		
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	2.1	1.9		
Boron (water soluble)	mg/kg	0.2	MCERTS	9.0	4.5	3.8		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.5	11	12		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	30	29		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	57	78	68		
Iron (aqua regia extractable)	mg/kg	40	MCERTS	24000	17000	14000		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	150	400	390		
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	300	270	280		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.1	0.9	1.0		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	25	33	26		
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	440	470	440		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	3.8	2.6		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	42	81	67		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	270	370	500		
Calcium (aqua regia extractable)	mg/kg	20	NONE	280000	320000	310000		
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3800	3900	3700		
Potassium (aqua regia extractable)	mg/kg	20	NONE	18000	35000	31000		
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	4.9	< 2.0	< 2.0		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	19	< 8.0	< 8.0		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	92	8.7	< 8.0		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	120	< 10	< 10		
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10		

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Analytical Report Number: 15-74657

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				461260	461261	461262		
Sample Reference				BH201	BH201	BH201		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				2.90	5.80	7.20		
Date Sampled				30/06/2015	01/07/2015	01/07/2015		
Time Taken				1645	0950	1010		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		

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Lab Sample Number				461260	461261	461262		
Sample Reference				BH201	BH201	BH201		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				2.90	5.80	7.20		
Date Sampled				30/06/2015	01/07/2015	01/07/2015		
Time Taken				1645	0950	1010		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2		
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	1.1	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.10	< 0.10		
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.38	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.17	< 0.10		
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		

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Analytical Report Number : 15-74657

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
461260	BH201	None Supplied	2.90	Light grey sandy clay with gravel and rubble.
461261	BH201	None Supplied	5.80	Light grey sandy clay with rubble.
461262	BH201	None Supplied	7.20	Grey sandy clay with vegetation.

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Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification	The analysis was carried out using documented in-house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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Analytical Report Number : 15-74657

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74514

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	29/06/2015
Your job number:	30766	**Samples instructed on:**	30/06/2015
Your order number:		**Analysis completed by:**	07/07/2015
Report Issue Number:	1	**Report issued on:**	07/07/2015
Samples Analysed:	1 wac multi sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Dr Irma Doyle
Assistant Quality Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Waste Acceptance Criteria Analytical Results

Report No:	**15-74514**						
					Client:	**GEOENG**	
Location	**London Paramount Entertainment Resort**						
Lab Reference (Sample Number)	460473				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	25/06/2015				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS202						
Depth (m)	2.70						
Solid Waste Analysis							
TOC (%)**	0.2				3%	5%	6%
Loss on Ignition (%) **	-				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	24				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	-				--	>6	--
Acid Neutralisation Capacity (mol / kg)	-				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.36	0.34		3.4	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.037	0.017		0.20	0.5	10	70
Copper *	< 0.0010	< 0.0030		< 0.020	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.013	0.0057		0.065	0.5	10	30
Nickel *	< 0.0010	< 0.0010		0.0070	0.4	10	40
Lead *	< 0.0050	< 0.0050		< 0.020	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0017	< 0.0010		< 0.020	4	50	200
Chloride *	27	7.3		97	800	4000	25000
Fluoride	1.6	1.5		16	10	150	500
Sulphate *	280	150		1600	1000	20000	50000
TDS	3000	1500		17000	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	4.3	2.6		28	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2.0						
Dry Matter (%)	79						
Moisture (%)	21						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.21						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepencies with current legislation

*= UKAS accredited (liquid eluate analysis only)
** = MCERTS accrediited

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Analytical Report Number : 15-74514

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
460473	WS202	None Supplied	2.70	Beige loam and sand.

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Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	NONE
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-PL	W	NONE
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
Mineral Oil in Soil	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
PCB's by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Seciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L004-PL	W	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74513

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	29/06/2015
Your job number:	30766	**Samples instructed on:**	30/06/2015
Your order number:		**Analysis completed by:**	08/07/2015
Report Issue Number:	1	**Report issued on:**	08/07/2015
Samples Analysed:	14 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460459	460460	460461	460462	460463
Sample Reference				WS202	WS202	WS202	WS204	WS204
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.65	3.70	11.70	0.50	1.90
Date Sampled				25/06/2015	25/06/2015	26/06/2015	26/06/2015	29/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	1205
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	10	25	40	28	26
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH	pH Units	N/A	MCERTS	11.4	12.1	10.5	10.9	11.5
Electrical Conductivity	µS/cm	10	NONE	4400	6800	3200	1300	1600
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO_4	mg/kg	50	MCERTS	17000	67000	10000	94000	54000
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	2.8	6.3	8.5	5.6	0.14
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	2800	6300	8500	5600	140
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	1.4	3.1	4.3	2.8	0.068
Sulphide	mg/kg	1	MCERTS	3.3	5.2	360	19	20
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	590	240	4200	55	84
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5	43	< 0.5	< 0.5
Organic Matter	%	0.1	MCERTS	11	0.2	4.7	0.1	0.2
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	U/S	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20	< 20	< 20
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	U/S	< 5.0	< 5.0	< 5.0	< 5.0
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460459	460460	460461	460462	460463
Sample Reference				WS202	WS202	WS202	WS204	WS204
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.65	3.70	11.70	0.50	1.90
Date Sampled				25/06/2015	25/06/2015	26/06/2015	26/06/2015	29/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	1205
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	3.2	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	2.9	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	0.37	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	0.59	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	0.60	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.59	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	0.85	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.38	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	10	< 1.6	< 1.6	< 1.6	< 1.6
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	9000	15000	22000	9100	15000
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	2.2	< 1.0	3.1	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	25	22	66	43
Barium (aqua regia extractable)	mg/kg	1	MCERTS	98	70	21	47	35
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.6	0.5	2.0	0.3	0.5
Boron (water soluble)	mg/kg	0.2	MCERTS	3.0	1.8	5.1	1.8	1.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.7	3.1	< 0.2	3.5	3.7
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	17	38	13	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	18	11	28	14
Iron (aqua regia extractable)	mg/kg	40	MCERTS	16000	14000	60000	18000	13000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	66	20	180	130
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	230	190	230	170	160
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	0.4
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.8	1.6	0.8	1.1	1.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	31	46	19	15
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	910	440	730	390	400
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	53	160	75	80	130
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	51	46	88	80	130
Calcium (aqua regia extractable)	mg/kg	20	NONE	230000	440000	43000	330000	450000
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3100	3900	7200	3400	3500
Potassium (aqua regia extractable)	mg/kg	20	NONE	11000	8700	8000	1300	2000

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Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460459	460460	460461	460462	460463
Sample Reference				WS202	WS202	WS202	WS204	WS204
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.65	3.70	11.70	0.50	1.90
Date Sampled				25/06/2015	25/06/2015	26/06/2015	26/06/2015	29/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	1205
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	4.8	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	6.5	2.2	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	11	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	30	11	24	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	52	14	24	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	3.9	< 1.0	2.5	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	13	< 2.0	3.4	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	19	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	22	14	13	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	58	14	19	< 10	< 10

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460459	460460	460461	460462	460463
Sample Reference				WS202	WS202	WS202	WS204	WS204
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.65	3.70	11.70	0.50	1.90
Date Sampled				25/06/2015	25/06/2015	26/06/2015	26/06/2015	29/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	1205
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460459	460460	460461	460462	460463
Sample Reference				WS202	WS202	WS202	WS204	WS204
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.65	3.70	11.70	0.50	1.90
Date Sampled				25/06/2015	25/06/2015	26/06/2015	26/06/2015	29/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	1205
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	3.2	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	4.6	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	1.5	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.1	MCERTS	2.9	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	0.37	< 0.10	< 0.10	< 0.10	< 0.10
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.1	MCERTS	0.59	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	0.60	< 0.10	< 0.10	< 0.10	< 0.10
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.59	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	0.85	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.38	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460464	460465	460466	460467	460468
Sample Reference				WS204	WS204	TP701	TP701	TP702
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.90	7.45	0.50	2.50	1.00
Date Sampled				29/06/2015	29/06/2015	25/06/2015	25/06/2015	25/06/2015
Time Taken				1225	1320	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	18	5.9	13	5.2
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH	pH Units	N/A	MCERTS	12.2	12.1	8.0	7.8	7.9
Electrical Conductivity	µS/cm	10	NONE	26000	33000	410	330	350
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO_4	mg/kg	50	MCERTS	95000	70000	690	780	750
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	19	15	0.077	0.22	0.10
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	19000	15000	77	220	100
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	9.6	7.5	0.039	0.11	0.051
Sulphide	mg/kg	1	MCERTS	26	1.0	< 1.0	< 1.0	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	790	20000	20	38	20
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	4.1	< 0.5	< 0.5	< 0.5
Organic Matter	%	0.1	MCERTS	0.1	0.2	2.1	0.1	0.1
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	8.1	< 2.0
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20	< 20	< 20
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	8.1	< 5.0
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460464	460465	460466	460467	460468
Sample Reference				WS204	WS204	TP701	TP701	TP702
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.90	7.45	0.50	2.50	1.00
Date Sampled				29/06/2015	29/06/2015	25/06/2015	25/06/2015	25/06/2015
Time Taken				1225	1320	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.33	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.30	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.18	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.24	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	9000	14000	9000	15000	1800
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	2.1	< 1.0	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	54	19	8.6	7.5	5.5
Barium (aqua regia extractable)	mg/kg	1	MCERTS	25	51	54	52	14
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.2	0.5	0.7	0.8	0.2
Boron (water soluble)	mg/kg	0.2	MCERTS	2.0	2.9	1.3	0.4	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.0	3.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	13	24	19	23	6.4
Copper (aqua regia extractable)	mg/kg	1	MCERTS	16	12	15	13	3.1
Iron (aqua regia extractable)	mg/kg	40	MCERTS	15000	9700	21000	29000	6300
Lead (aqua regia extractable)	mg/kg	1	MCERTS	120	86	60	8.9	4.1
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	140	170	240	360	69
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.4	4.6	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	10	15	19	5.5
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	350	360	460	330	130
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	5.6	9.1	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	100	29	33	39	9.6
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	53	51	61	40	13
Calcium (aqua regia extractable)	mg/kg	20	NONE	430000	330000	41000	4600	16000
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	2900	3500	2700	2800	690
Potassium (aqua regia extractable)	mg/kg	20	NONE	38000	36000	2100	2200	590

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460464	460465	460466	460467	460468
Sample Reference				WS204	WS204	TP701	TP701	TP702
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.90	7.45	0.50	2.50	1.00
Date Sampled				29/06/2015	29/06/2015	25/06/2015	25/06/2015	25/06/2015
Time Taken				1225	1320	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	2.6	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	150	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	29	19	2200	14	11
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	29	19	2300	14	11

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	42	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	750	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	790	< 10	< 10

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460464	460465	460466	460467	460468
Sample Reference				WS204	WS204	TP701	TP701	TP702
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.90	7.45	0.50	2.50	1.00
Date Sampled				29/06/2015	29/06/2015	25/06/2015	25/06/2015	25/06/2015
Time Taken				1225	1320	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460464	460465	460466	460467	460468
Sample Reference				WS204	WS204	TP701	TP701	TP702
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.90	7.45	0.50	2.50	1.00
Date Sampled				29/06/2015	29/06/2015	25/06/2015	25/06/2015	25/06/2015
Time Taken				1225	1320	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.33	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.30	< 0.10	< 0.10
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.18	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.24	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460469	460470	460471	460472	
Sample Reference				TP702	TP702	BH203	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.50	2.00	2.00	4.00	
Date Sampled				25/06/2015	25/06/2015	25/06/2015	25/06/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	13	11	17	38	
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	
General Inorganics								
pH	pH Units	N/A	MCERTS	7.5	7.6	8.4	7.5	
Electrical Conductivity	µS/cm	10	NONE	700	180	2600	1300	
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	
Total Sulphate as SO_4	mg/kg	50	MCERTS	1100	420	15000	9700	
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.53	0.15	2.3	2.6	
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	530	150	2300	2600	
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.26	0.077	1.2	1.3	
Sulphide	mg/kg	1	MCERTS	8.2	< 1.0	6.2	10	
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	13	31	53	67	
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	31	< 0.5	2.6	46	
Organic Matter	%	0.1	MCERTS	1.2	0.3	2.6	4.5	
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	5.4	< 2.0	< 2.0	
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20	< 20	
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	5.4	< 5.0	< 5.0	
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460469	460470	460471	460472	
Sample Reference				TP702	TP702	BH203	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.50	2.00	2.00	4.00	
Date Sampled				25/06/2015	25/06/2015	25/06/2015	25/06/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.54	< 0.05	
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene	mg/kg	0.1	MCERTS	0.21	< 0.10	1.1	< 0.10	
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.13	< 0.10	
Fluoranthene	mg/kg	0.1	MCERTS	0.71	< 0.10	0.96	< 0.10	
Pyrene	mg/kg	0.1	MCERTS	0.64	< 0.10	0.86	< 0.10	
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.36	< 0.10	0.46	< 0.10	
Chrysene	mg/kg	0.05	MCERTS	0.47	< 0.05	0.65	< 0.05	
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.31	< 0.10	0.40	< 0.10	
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.27	< 0.10	0.32	< 0.10	
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.28	< 0.10	0.30	< 0.10	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	3.3	< 1.6	5.7	< 1.6	
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	9600	9800	9400	15000	
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	1.0	6.3	< 1.0	
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.3	7.6	22	26	
Barium (aqua regia extractable)	mg/kg	1	MCERTS	45	49	130	29	
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7	0.8	0.8	0.8	
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3	0.5	4.8	5.0	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.3	< 0.2	
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	19	49	33	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	11	60	14	
Iron (aqua regia extractable)	mg/kg	40	MCERTS	21000	21000	22000	45000	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	28	14	90	18	
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	280	460	280	99	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.5	< 0.3	2.1	0.8	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	15	29	19	
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	460	300	490	710	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2	< 1.0	< 1.0	< 1.0	
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	33	34	41	68	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	49	36	100	47	
Calcium (aqua regia extractable)	mg/kg	20	NONE	54000	5500	240000	11000	
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3500	1900	2500	4700	
Potassium (aqua regia extractable)	mg/kg	20	NONE	3000	1700	2900	5800	

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460469	460470	460471	460472	
Sample Reference				TP702	TP702	BH203	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.50	2.00	2.00	4.00	
Date Sampled				25/06/2015	25/06/2015	25/06/2015	25/06/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	2.0	< 2.0	< 2.0	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	14	< 8.0	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	41	9.1	110	18	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	41	11	130	18	

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	1.0	< 1.0	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	11	< 10	50	< 10	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	11	< 10	51	< 10	

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Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460469	460470	460471	460472	
Sample Reference				TP702	TP702	BH203	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.50	2.00	2.00	4.00	
Date Sampled				25/06/2015	25/06/2015	25/06/2015	25/06/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460469	460470	460471	460472	
Sample Reference				TP702	TP702	BH203	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.50	2.00	2.00	4.00	
Date Sampled				25/06/2015	25/06/2015	25/06/2015	25/06/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.54	< 0.05	
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	0.5	< 0.1	
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.2	< 0.2	
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Phenanthrene	mg/kg	0.1	MCERTS	0.21	< 0.10	1.1	< 0.10	
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.13	< 0.10	
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Fluoranthene	mg/kg	0.1	MCERTS	0.71	< 0.10	0.96	< 0.10	
Pyrene	mg/kg	0.1	MCERTS	0.64	< 0.10	0.86	< 0.10	
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.36	< 0.10	0.46	< 0.10	
Chrysene	mg/kg	0.05	MCERTS	0.47	< 0.05	0.65	< 0.05	
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.31	< 0.10	0.40	< 0.10	
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.27	< 0.10	0.32	< 0.10	
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.28	< 0.10	0.30	< 0.10	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	

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Analytical Report Number : 15-74513

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
460459	WS202	None Supplied	1.65	Black loam and sand with gravel.
460460	WS202	None Supplied	3.70	Beige clay and sand.
460461	WS202	None Supplied	11.70	Grey clay and sand.
460462	WS204	None Supplied	0.50	Beige sandy loam.
460463	WS204	None Supplied	1.90	Beige sandy loam.
460464	WS204	None Supplied	3.90	Beige sandy loam.
460465	WS204	None Supplied	7.45	Beige clay and sand.
460466	TP701	None Supplied	0.50	Light brown loam and sand with gravel and vegetation.
460467	TP701	None Supplied	2.50	Brown loam and clay with gravel.
460468	TP702	None Supplied	1.00	Light brown clay and sand with vegetation.
460469	TP702	None Supplied	1.50	Brown loam and clay with gravel.
460470	TP702	None Supplied	2.00	Brown sandy loam.
460471	BH203	None Supplied	2.00	Grey loam and clay with gravel and chalk.
460472	BH203	None Supplied	4.00	Brown loam and clay.

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Analytical Report Number : 15-74513

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 15-74513

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Preliminary Report Number : 15-74513

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	29/06/2015
Your job number:	30766	**Samples instructed on:**	30/06/2015
Your order number:		**Analysis completed by:**	Not complete
Report Issue Number:	0	**Report issued on:**	07/07/2015
Samples Analysed:	14 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.
Preliminary reports provided at the request of the client should be considered as incomplete and have not been through the complete quality control procedure.
Results contained in preliminary reports may be subject to change and therefore should not be used as a basis for decision making, except at the risk of the client.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460459	460460	460461	460462	460463
Sample Reference				WS202	WS202	WS202	WS204	WS204
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.65	3.70	11.70	0.50	1.90
Date Sampled				25/06/2015	25/06/2015	26/06/2015	26/06/2015	29/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	1205
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	10	25	40	28	26
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH	pH Units	N/A	MCERTS	11.4	12.1	10.5	10.9	11.5
Electrical Conductivity	µS/cm	10	NONE	4400	6800	3200	1300	1600
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO_4	mg/kg	50	MCERTS	17000	67000	10000	94000	54000
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	2.8	6.3	8.5	5.6	0.14
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	2800	6300	8500	5600	140
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	1.4	3.1	4.3	2.8	0.068
Sulphide	mg/kg	1	MCERTS	3.3	5.2	360	19	20
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	590	240	4200	55	84
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5	43	< 0.5	< 0.5
Organic Matter	%	0.1	MCERTS	11	0.2	4.7	0.1	0.2
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	U/S	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20	< 20	< 20
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	U/S	< 5.0	< 5.0	< 5.0	< 5.0
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	3.2	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	2.9	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	0.37	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	0.59	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	0.60	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.59	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	0.85	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.38	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	10	< 1.6	< 1.6	< 1.6	< 1.6

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460459	460460	460461	460462	460463
Sample Reference				WS202	WS202	WS202	WS204	WS204
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.65	3.70	11.70	0.50	1.90
Date Sampled				25/06/2015	25/06/2015	26/06/2015	26/06/2015	29/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	1205
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	9000	15000	22000	9100	15000
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	2.2	< 1.0	3.1	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	25	22	66	43
Barium (aqua regia extractable)	mg/kg	1	MCERTS	98	70	21	47	35
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.6	0.5	2.0	0.3	0.5
Boron (water soluble)	mg/kg	0.2	MCERTS	3.0	1.8	5.1	1.8	1.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.7	3.1	< 0.2	3.5	3.7
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	17	38	13	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	18	11	28	14
Iron (aqua regia extractable)	mg/kg	40	MCERTS	16000	14000	60000	18000	13000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	66	20	180	130
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	230	190	230	170	160
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	0.4
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.8	1.6	0.8	1.1	1.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	31	46	19	15
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	910	440	730	390	400
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	7.5
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	53	160	75	80	130
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	51	46	88	80	130
Calcium (aqua regia extractable)	mg/kg	20	NONE	230000	440000	43000	330000	450000
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3100	3900	7200	3400	3500
Potassium (aqua regia extractable)	mg/kg	20	NONE	11000	8700	8000	1300	2000
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	To follow

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460459	460460	460461	460462	460463
Sample Reference				WS202	WS202	WS202	WS204	WS204
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.65	3.70	11.70	0.50	1.90
Date Sampled				25/06/2015	25/06/2015	26/06/2015	26/06/2015	29/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	1205
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460459	460460	460461	460462	460463
Sample Reference				WS202	WS202	WS202	WS204	WS204
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.65	3.70	11.70	0.50	1.90
Date Sampled				25/06/2015	25/06/2015	26/06/2015	26/06/2015	29/06/2015
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	1205
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	3.2	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	4.6	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	1.5	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.1	MCERTS	2.9	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	0.37	< 0.10	< 0.10	< 0.10	< 0.10
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.1	MCERTS	0.59	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	0.60	< 0.10	< 0.10	< 0.10	< 0.10
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.59	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	0.85	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.38	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460464	460465	460466	460467	460468
Sample Reference				WS204	WS204	TP701	TP701	TP702
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.90	7.45	0.50	2.50	1.00
Date Sampled				29/06/2015	29/06/2015	25/06/2015	25/06/2015	25/06/2015
Time Taken				1225	1320	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	18	5.9	13	5.2
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH	pH Units	N/A	MCERTS	12.2	12.1	8.0	7.8	7.9
Electrical Conductivity	µS/cm	10	NONE	26000	33000	410	330	350
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO_4	mg/kg	50	MCERTS	95000	70000	690	780	750
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	19	15	0.077	0.22	0.10
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	19000	15000	77	220	100
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	9.6	7.5	0.039	0.11	0.051
Sulphide	mg/kg	1	MCERTS	26	1.0	< 1.0	< 1.0	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	790	20000	20	38	20
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	4.1	< 0.5	< 0.5	< 0.5
Organic Matter	%	0.1	MCERTS	0.1	0.2	2.1	0.1	0.1
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	8.1	< 2.0
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20	< 20	< 20
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	8.1	< 5.0
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.33	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.30	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.18	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.24	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460464	460465	460466	460467	460468
Sample Reference				WS204	WS204	TP701	TP701	TP702
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.90	7.45	0.50	2.50	1.00
Date Sampled				29/06/2015	29/06/2015	25/06/2015	25/06/2015	25/06/2015
Time Taken				1225	1320	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	9000	14000	9000	15000	1800
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	2.1	< 1.0	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	54	19	8.6	7.5	5.5
Barium (aqua regia extractable)	mg/kg	1	MCERTS	25	51	54	52	14
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.2	0.5	0.7	0.8	0.2
Boron (water soluble)	mg/kg	0.2	MCERTS	2.0	2.9	1.3	0.4	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.0	3.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	13	24	19	23	6.4
Copper (aqua regia extractable)	mg/kg	1	MCERTS	16	12	15	13	3.1
Iron (aqua regia extractable)	mg/kg	40	MCERTS	15000	9700	21000	29000	6300
Lead (aqua regia extractable)	mg/kg	1	MCERTS	120	86	60	8.9	4.1
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	140	170	240	360	69
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.4	4.6	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	10	15	19	5.5
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	350	360	460	330	130
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	5.6	9.1	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	100	29	33	39	9.6
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	53	51	61	40	13
Calcium (aqua regia extractable)	mg/kg	20	NONE	430000	330000	41000	4600	16000
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	2900	3500	2700	2800	690
Potassium (aqua regia extractable)	mg/kg	20	NONE	38000	36000	2100	2200	590
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	To follow
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	To follow

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460464	460465	460466	460467	460468
Sample Reference				WS204	WS204	TP701	TP701	TP702
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.90	7.45	0.50	2.50	1.00
Date Sampled				29/06/2015	29/06/2015	25/06/2015	25/06/2015	25/06/2015
Time Taken				1225	1320	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460464	460465	460466	460467	460468
Sample Reference				WS204	WS204	TP701	TP701	TP702
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.90	7.45	0.50	2.50	1.00
Date Sampled				29/06/2015	29/06/2015	25/06/2015	25/06/2015	25/06/2015
Time Taken				1225	1320	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.33	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.30	< 0.10	< 0.10
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.18	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.24	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460469	460470	460471	460472	
Sample Reference				TP702	TP702	BH203	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.50	2.00	2.00	4.00	
Date Sampled				25/06/2015	25/06/2015	25/06/2015	25/06/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	13	11	17	38	
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	
General Inorganics								
pH	pH Units	N/A	MCERTS	7.5	7.6	8.4	7.5	
Electrical Conductivity	µS/cm	10	NONE	700	180	2600	1300	
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	
Total Sulphate as SO_4	mg/kg	50	MCERTS	1100	420	15000	9700	
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.53	0.15	2.3	2.6	
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	530	150	2300	2600	
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.26	0.077	1.2	1.3	
Sulphide	mg/kg	1	MCERTS	8.2	< 1.0	6.2	10	
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	13	31	53	67	
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	31	< 0.5	2.6	46	
Organic Matter	%	0.1	MCERTS	1.2	0.3	2.6	4.5	
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	5.4	< 2.0	< 2.0	
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20	< 20	
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	5.4	< 5.0	< 5.0	
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.54	< 0.05	
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene	mg/kg	0.1	MCERTS	0.21	< 0.10	1.1	< 0.10	
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.13	< 0.10	
Fluoranthene	mg/kg	0.1	MCERTS	0.71	< 0.10	0.96	< 0.10	
Pyrene	mg/kg	0.1	MCERTS	0.64	< 0.10	0.86	< 0.10	
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.36	< 0.10	0.46	< 0.10	
Chrysene	mg/kg	0.05	MCERTS	0.47	< 0.05	0.65	< 0.05	
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.31	< 0.10	0.40	< 0.10	
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.27	< 0.10	0.32	< 0.10	
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.28	< 0.10	0.30	< 0.10	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	3.3	< 1.6	5.7	< 1.6	

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460469	460470	460471	460472	
Sample Reference				TP702	TP702	BH203	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.50	2.00	2.00	4.00	
Date Sampled				25/06/2015	25/06/2015	25/06/2015	25/06/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	9600	9800	9400	15000	
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	1.0	6.3	< 1.0	
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.3	7.6	22	26	
Barium (aqua regia extractable)	mg/kg	1	MCERTS	45	49	130	29	
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7	0.8	0.8	0.8	
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3	0.5	4.8	5.0	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.3	< 0.2	
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	19	49	33	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	11	60	14	
Iron (aqua regia extractable)	mg/kg	40	MCERTS	21000	21000	22000	45000	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	28	14	90	18	
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	280	460	280	99	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.5	< 0.3	2.1	0.8	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	15	29	19	
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	460	300	490	710	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2	< 1.0	< 1.0	< 1.0	
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	33	34	41	68	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	49	36	100	47	
Calcium (aqua regia extractable)	mg/kg	20	NONE	54000	5500	240000	11000	
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3500	1900	2500	4700	
Potassium (aqua regia extractable)	mg/kg	20	NONE	3000	1700	2900	5800	
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	To follow	To follow	To follow	To follow	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	To follow	To follow	To follow	To follow	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	To follow	To follow	To follow	To follow	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	To follow	To follow	To follow	To follow	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	To follow	To follow	To follow	To follow	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	To follow	To follow	To follow	To follow	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	To follow	To follow	To follow	To follow	

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460469	460470	460471	460472	
Sample Reference				TP702	TP702	BH203	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.50	2.00	2.00	4.00	
Date Sampled				25/06/2015	25/06/2015	25/06/2015	25/06/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	

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Analytical Report Number: 15-74513

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				460469	460470	460471	460472	
Sample Reference				TP702	TP702	BH203	BH203	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				1.50	2.00	2.00	4.00	
Date Sampled				25/06/2015	25/06/2015	25/06/2015	25/06/2015	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.54	< 0.05	
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	0.5	< 0.1	
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.2	< 0.2	
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Phenanthrene	mg/kg	0.1	MCERTS	0.21	< 0.10	1.1	< 0.10	
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.13	< 0.10	
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Fluoranthene	mg/kg	0.1	MCERTS	0.71	< 0.10	0.96	< 0.10	
Pyrene	mg/kg	0.1	MCERTS	0.64	< 0.10	0.86	< 0.10	
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.36	< 0.10	0.46	< 0.10	
Chrysene	mg/kg	0.05	MCERTS	0.47	< 0.05	0.65	< 0.05	
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.31	< 0.10	0.40	< 0.10	
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.27	< 0.10	0.32	< 0.10	
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.28	< 0.10	0.30	< 0.10	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	

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Preliminary Report Number : 15-74513

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
460459	WS202	None Supplied	1.65	Black loam and sand with gravel.
460460	WS202	None Supplied	3.70	Beige clay and sand.
460461	WS202	None Supplied	11.70	Grey clay and sand.
460462	WS204	None Supplied	0.50	Beige sandy loam.
460463	WS204	None Supplied	1.90	Beige sandy loam.
460464	WS204	None Supplied	3.90	Beige sandy loam.
460465	WS204	None Supplied	7.45	Beige clay and sand.
460466	TP701	None Supplied	0.50	Light brown loam and sand with gravel and vegetation.
460467	TP701	None Supplied	2.50	Brown loam and clay with gravel.
460468	TP702	None Supplied	1.00	Light brown clay and sand with vegetation.
460469	TP702	None Supplied	1.50	Brown loam and clay with gravel.
460470	TP702	None Supplied	2.00	Brown sandy loam.
460471	BH203	None Supplied	2.00	Grey loam and clay with gravel and chalk.
460472	BH203	None Supplied	4.00	Brown loam and clay.

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Preliminary Report Number : 15-74513

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Preliminary Report Number : 15-74513

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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i2 Job Number
15-74513_1 SD

Sample Deviation Report

Sample ID		WS202	WS202	TP701	TP701	TP702	TP702	TP702	BH203	BH203
Other ID										
Sample Type		S	S	S	S	S	S	S	S	S
Job Number		15-74513	15-74513	15-74513	15-74513	15-74513	15-74513	15-74513	15-74513	15-74513
Sample Number		460459	460460	460466	460467	460468	460469	460470	460471	460472
Deviation Code		c	c	c	c	c	c	c	c	c
Test Name	Method no									
Sulphide in soil	L010-PL	c	c	c	c	c	c	c	c	c

Key: a - No sampling date b - Incorrect container
c - Holding time d - Headspace e - Temperature

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Geotechnical Engineering Ltd
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GL2 4NF

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7 Woodshots Meadow,
Croxley Green
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Watford,
Herts,
WD18 8YS

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Analytical Report Number : 15-74373

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	1 soil sample		

Signed: CCStone

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: Rahman.

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74373

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459455				
Sample Reference				WS203				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				23/06/2015				
Time Taken				1700				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	28				
Total mass of sample received	kg	0.001	NONE	1.5				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.1				
Electrical Conductivity	µS/cm	10	NONE	1800				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	32000				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	5.0				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	5000				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	2.5				
Sulphide	mg/kg	1	MCERTS	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	98				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5				
Organic Matter	%	0.1	MCERTS	0.3				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Analytical Report Number: 15-74373

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459455				
Sample Reference				WS203				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				23/06/2015				
Time Taken				1700				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	15000				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.0				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	3.6				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	76				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.4				
Boron (water soluble)	mg/kg	0.2	MCERTS	3.2				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	2.7				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	13000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	41				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	220				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.8				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	450				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	3.1				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	120				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	36				
Calcium (aqua regia extractable)	mg/kg	20	NONE	320000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	4800				
Potassium (aqua regia extractable)	mg/kg	20	NONE	8100				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

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Analytical Report Number: 15-74373

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459455				
Sample Reference				WS203				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				23/06/2015				
Time Taken				1700				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74373

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459455				
Sample Reference				WS203				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				23/06/2015				
Time Taken				1700				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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Analytical Report Number : 15-74373

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459455	WS203	None Supplied	1.00	Light brown sandy clay with vegetation.

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Analytical Report Number : 15-74373

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74373

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74372

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	2 soil samples		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74372

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459453	459454			
Sample Reference				BH502	BH502			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	1.00			
Date Sampled				23/06/2015	23/06/2015			
Time Taken				1800	1805			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	13	14			
Total mass of sample received	kg	0.001	NONE	1.6	1.5			
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
General Inorganics								
pH	pH Units	N/A	MCERTS	9.4	11.2			
Electrical Conductivity	µS/cm	10	NONE	530	760			
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1			
Complex Cyanide	mg/kg	1	NONE	< 1	< 1			
Free Cyanide	mg/kg	1	NONE	< 1	< 1			
Total Sulphate as SO_4	mg/kg	50	MCERTS	980	2000			
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.43	1.0			
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	430	1000			
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.21	0.50			
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0			
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	270	410			
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5			
Organic Matter	%	0.1	MCERTS	0.2	0.2			
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	5.3	4.6			
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20			
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	5.3	< 5.0			
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	< 1.6			

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Analytical Report Number: 15-74372

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459453	459454			
Sample Reference				BH502	BH502			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	1.00			
Date Sampled				23/06/2015	23/06/2015			
Time Taken				1800	1805			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	2600	2100			
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.6	< 1.0			
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	1.1	< 1.0			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	19	17			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.1	< 0.1			
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0	0.9			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	7.2	7.7			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	5.9	6.6			
Iron (aqua regia extractable)	mg/kg	40	MCERTS	5200	3100			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	3.9	3.5			
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	230	200			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.3	< 0.3			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	6.1	6.8			
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	430	350			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	11	7.7			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	17	16			
Calcium (aqua regia extractable)	mg/kg	20	NONE	400000	410000			
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	2300	2300			
Potassium (aqua regia extractable)	mg/kg	20	NONE	870	520			
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	11	12			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	11	12			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	14	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	14	< 10			

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Analytical Report Number: 15-74372

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459453	459454			
Sample Reference				BH502	BH502			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	1.00			
Date Sampled				23/06/2015	23/06/2015			
Time Taken				1800	1805			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			

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Analytical Report Number: 15-74372

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459453	459454			
Sample Reference				BH502	BH502			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	1.00			
Date Sampled				23/06/2015	23/06/2015			
Time Taken				1800	1805			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2			
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1			
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			

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Analytical Report Number : 15-74372

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459453	BH502	None Supplied	0.50	Light brown sandy clay.
459454	BH502	None Supplied	1.00	White chalk with gravel. **

**Non MCerts Matrix

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Analytical Report Number : 15-74372

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74372

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74371

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	3 soil samples		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74371

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459450	459451	459452		
Sample Reference				WS102	WS102	WS102		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.50	2.70	4.70		
Date Sampled				24/06/2015	24/06/2015	24/06/2015		
Time Taken				1710	1540	1635		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	13	16	15		
Total mass of sample received	kg	0.001	NONE	1.1	1.6	1.2		
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected		
General Inorganics								
pH	pH Units	N/A	MCERTS	10.7	11.9	12.3		
Electrical Conductivity	µS/cm	10	NONE	1400	2500	9800		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1		
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Total Sulphate as SO_4	mg/kg	50	MCERTS	63000	54000	41000		
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	4.3	1.6	7.6		
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	4300	1600	7600		
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	2.2	0.78	3.8		
Sulphide	mg/kg	1	MCERTS	2.6	5.9	1.5		
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	40	570	1800		
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5	1.7		
Organic Matter	%	0.1	MCERTS	0.3	0.1	0.2		
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0		
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20		
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0		
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Phenanthrene	mg/kg	0.1	MCERTS	0.60	< 0.10	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluoranthene	mg/kg	0.1	MCERTS	0.37	< 0.10	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	0.23	< 0.10	< 0.10		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.24	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	0.29	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05		
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	2.1	< 1.6	< 1.6		

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Analytical Report Number: 15-74371

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459450	459451	459452		
Sample Reference				WS102	WS102	WS102		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.50	2.70	4.70		
Date Sampled				24/06/2015	24/06/2015	24/06/2015		
Time Taken				1710	1540	1635		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	13000	17000	15000		
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	1.7	2.4	1.7		
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	22	12		
Barium (aqua regia extractable)	mg/kg	1	MCERTS	57	49	72		
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.5	0.6	0.7		
Boron (water soluble)	mg/kg	0.2	MCERTS	2.8	2.4	3.6		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.7	3.7	4.3		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	17	21		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	34	36	32		
Iron (aqua regia extractable)	mg/kg	40	MCERTS	12000	7900	8300		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	140	130	130		
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	170	140	160		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.6	1.2	0.7		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	10	12		
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	380	320	360		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.1	4.9	< 1.0		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	27	23	25		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	180	120	120		
Calcium (aqua regia extractable)	mg/kg	20	NONE	310000	280000	300000		
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3400	2900	3800		
Potassium (aqua regia extractable)	mg/kg	20	NONE	3800	5500	19000		
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10		

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Analytical Report Number: 15-74371

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459450	459451	459452		
Sample Reference				WS102	WS102	WS102		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.50	2.70	4.70		
Date Sampled				24/06/2015	24/06/2015	24/06/2015		
Time Taken				1710	1540	1635		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		

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Analytical Report Number: 15-74371

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459450	459451	459452		
Sample Reference				WS102	WS102	WS102		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.50	2.70	4.70		
Date Sampled				24/06/2015	24/06/2015	24/06/2015		
Time Taken				1710	1540	1635		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2		
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Phenanthrene	mg/kg	0.1	MCERTS	0.60	< 0.10	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Fluoranthene	mg/kg	0.1	MCERTS	0.37	< 0.10	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	0.23	< 0.10	< 0.10		
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.24	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	0.29	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.35	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 15-74371

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459450	WS102	None Supplied	0.50	Beige sand.
459451	WS102	None Supplied	2.70	Light brown sandy clay.
459452	WS102	None Supplied	4.70	Light brown sandy clay.

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Analytical Report Number : 15-74371

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74371

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74370

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	2 soil samples		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74370

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459448	459449			
Sample Reference				TP302	TP302			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	3.00			
Date Sampled				24/06/2015	24/06/2015			
Time Taken				1615	1655			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	9.5	15			
Total mass of sample received	kg	0.001	NONE	1.6	1.7			
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
General Inorganics								
pH	pH Units	N/A	MCERTS	10.9	11.7			
Electrical Conductivity	µS/cm	10	NONE	300	1100			
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1			
Complex Cyanide	mg/kg	1	NONE	< 1	< 1			
Free Cyanide	mg/kg	1	NONE	< 1	< 1			
Total Sulphate as SO_4	mg/kg	50	MCERTS	2500	1200			
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.68	0.34			
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	680	340			
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.34	0.17			
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0			
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	11	16			
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5			
Organic Matter	%	0.1	MCERTS	0.6	0.1			
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0			
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20			
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0			
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.10	< 0.05			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Phenanthrene	mg/kg	0.1	MCERTS	0.59	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluoranthene	mg/kg	0.1	MCERTS	1.2	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	0.64	< 0.10			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.52	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	0.70	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	1.1	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	1.0	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.68	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.70	< 0.05			
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	7.2	< 1.6			

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Analytical Report Number: 15-74370

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459448	459449			
Sample Reference				TP302	TP302			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	3.00			
Date Sampled				24/06/2015	24/06/2015			
Time Taken				1615	1655			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	11000	790			
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0			
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	< 1.0			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	44	11			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.5	< 0.1			
Boron (water soluble)	mg/kg	0.2	MCERTS	1.6	0.4			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.3			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	2.4			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	6.2			
Iron (aqua regia extractable)	mg/kg	40	MCERTS	21000	1300			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	30	2.9			
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	340	250			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.3	< 0.3			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	5.4			
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	610	640			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	35	5.1			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	48	16			
Calcium (aqua regia extractable)	mg/kg	20	NONE	220000	410000			
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	15000	1800			
Potassium (aqua regia extractable)	mg/kg	20	NONE	2000	420			
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	9.6	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	60	14			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	70	14			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	45	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	45	< 10			

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Analytical Report Number: 15-74370

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459448	459449			
Sample Reference				TP302	TP302			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	3.00			
Date Sampled				24/06/2015	24/06/2015			
Time Taken				1615	1655			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			

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Analytical Report Number: 15-74370

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459448	459449			
Sample Reference				TP302	TP302			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	3.00			
Date Sampled				24/06/2015	24/06/2015			
Time Taken				1615	1655			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2			
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Naphthalene	mg/kg	0.05	MCERTS	0.10	< 0.05			
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1			
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Phenanthrene	mg/kg	0.1	MCERTS	0.59	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Fluoranthene	mg/kg	0.1	MCERTS	1.2	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	0.64	< 0.10			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.52	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	0.70	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	1.1	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	1.0	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.68	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.70	< 0.05			

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Analytical Report Number : 15-74370

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459448	TP302	None Supplied	1.00	Light brown sand with gravel and chalk.
459449	TP302	None Supplied	3.00	White chalk. **

** Non MCERTS matrix.

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Analytical Report Number : 15-74370

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74370

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74369

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	2 soil samples		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74369

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459446	459447			
Sample Reference				TP301	TP301			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	2.00			
Date Sampled				24/06/2015	24/06/2015			
Time Taken				1200	1255			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	9.1	11			
Total mass of sample received	kg	0.001	NONE	1.7	1.3			
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
General Inorganics								
pH	pH Units	N/A	MCERTS	10.8	11.5			
Electrical Conductivity	µS/cm	10	NONE	260	1000			
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1			
Complex Cyanide	mg/kg	1	NONE	< 1	< 1			
Free Cyanide	mg/kg	1	NONE	< 1	< 1			
Total Sulphate as SO_4	mg/kg	50	MCERTS	1500	12000			
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.43	0.31			
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	430	310			
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.22	0.16			
Sulphide	mg/kg	1	MCERTS	< 1.0	1.7			
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	15	220			
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5			
Organic Matter	%	0.1	MCERTS	0.3	2.1			
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	7.5			
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	16000			
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	24			
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.42			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.66			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.42			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.19			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.27			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	2.0			

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Analytical Report Number: 15-74369

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459446	459447			
Sample Reference				TP301	TP301			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	2.00			
Date Sampled				24/06/2015	24/06/2015			
Time Taken				1200	1255			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	2900	9400			
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	5.8			
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.0	16			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	24	260			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	< 0.1	0.5			
Boron (water soluble)	mg/kg	0.2	MCERTS	2.6	3.1			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	6.1			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	9.0	23			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9.9	1100			
Iron (aqua regia extractable)	mg/kg	40	MCERTS	5000	19000			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	150			
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	210	270			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.3	1.2			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	5.9	19			
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	440	430			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	11	32			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	32	530			
Calcium (aqua regia extractable)	mg/kg	20	NONE	450000	340000			
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	2000	2400			
Potassium (aqua regia extractable)	mg/kg	20	NONE	900	2100			
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	27			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	130			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	160			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	15			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	75			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	90			

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Lab Sample Number				459446	459447			
Sample Reference				TP301	TP301			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	2.00			
Date Sampled				24/06/2015	24/06/2015			
Time Taken				1200	1255			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			

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Lab Sample Number				459446	459447			
Sample Reference				TP301	TP301			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	2.00			
Date Sampled				24/06/2015	24/06/2015			
Time Taken				1200	1255			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2			
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1			
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.42			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.66			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.42			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.19			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.27			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			

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Analytical Report Number : 15-74369

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459446	TP301	None Supplied	0.50	White chalk with gravel. **
459447	TP301	None Supplied	2.00	Black loam and sand with gravel.

** Non MCerts Matrix

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Analytical Report Number : 15-74369

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74369

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74368

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	1 soil sample		

Signed: CCStone

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: Rahman

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74368

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459445				
Sample Reference				WS203				
Sample Number				None Supplied				
Depth (m)				2.25				
Date Sampled				25/06/2015				
Time Taken				1025				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	14				
Total mass of sample received	kg	0.001	NONE	1.2				
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile				
Asbestos in Soil	Type	N/A	ISO 17025	Detected				
Asbestos Quantification	%	0.001	ISO 17025	0.080				
General Inorganics								
pH	pH Units	N/A	MCERTS	12.7				
Electrical Conductivity	µS/cm	10	NONE	14000				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	56000				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	3.3				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	3300				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	1.6				
Sulphide	mg/kg	1	MCERTS	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	1400				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	8.2				
Organic Matter	%	0.1	MCERTS	0.4				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Analytical Report Number: 15-74368

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459445				
Sample Reference				WS203				
Sample Number				None Supplied				
Depth (m)				2.25				
Date Sampled				25/06/2015				
Time Taken				1025				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	14000				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.7				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.3				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	59				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.3				
Boron (water soluble)	mg/kg	0.2	MCERTS	2.1				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.8				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	9700				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	40				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	210				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	2.8				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	450				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	110				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	74				
Calcium (aqua regia extractable)	mg/kg	20	NONE	390000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	4200				
Potassium (aqua regia extractable)	mg/kg	20	NONE	13000				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	14				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	220				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	230				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

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Analytical Report Number: 15-74368

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459445				
Sample Reference				WS203				
Sample Number				None Supplied				
Depth (m)				2.25				
Date Sampled				25/06/2015				
Time Taken				1025				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74368

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459445				
Sample Reference				WS203				
Sample Number				None Supplied				
Depth (m)				2.25				
Date Sampled				25/06/2015				
Time Taken				1025				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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Analytical Report Number: 15-74368
Project / Site name: London Paramount Entertainment Resort
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

"The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

Any material greater than 16mm is considered as Bulk sample and reported separately, asbestos content (if any) is not included in the final Quantitative analysis. The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.
Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
459445	WS203	2.25	91	Insulation Lagging & Loose Fibres	**Chrysotile**	0.080	**0.080**

Opinions and interpretations expressed herein are outside the scope of UKAS accreditatior

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Analytical Report Number : 15-74368

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459445	WS203	None Supplied	2.25	Beige sandy clay with gravel.

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Analytical Report Number : 15-74368

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification	The analysis was carried out using documented in-house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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Analytical Report Number : 15-74368

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74367

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	1 soil sample		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74367

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459441				
Sample Reference				WS202				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				24/06/2015				
Time Taken				1705				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	14				
Total mass of sample received	kg	0.001	NONE	2.0				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	10.4				
Electrical Conductivity	µS/cm	10	NONE	1300				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	63000				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	3.6				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	3600				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	1.8				
Sulphide	mg/kg	1	MCERTS	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	49				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5				
Organic Matter	%	0.1	MCERTS	0.2				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Sample Number				None Supplied				
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Date Sampled				24/06/2015				
Time Taken				1705				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	13000				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	54				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.4				
Boron (water soluble)	mg/kg	0.2	MCERTS	2.4				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.3				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	9500				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	90				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	180				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.8				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	430				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	5.5				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	68				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	65				
Calcium (aqua regia extractable)	mg/kg	20	NONE	380000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3700				
Potassium (aqua regia extractable)	mg/kg	20	NONE	2100				

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Sample Reference				WS202				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				24/06/2015				
Time Taken				1705				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	8.6				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

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Sample Reference				WS202				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				24/06/2015				
Time Taken				1705				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Sample Reference				WS202				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				24/06/2015				
Time Taken				1705				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459441	WS202	None Supplied	0.50	Beige sand with rubble.

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Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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The results included within the report are representative of the samples submitted for analysis.

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Analytical Report Number : 15-74366

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	25/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	1 soil sample		

Signed: CCStone

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: Rahman.

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74366

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459440				
Sample Reference				TP201				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				25/06/2015				
Time Taken				0950				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	10				
Total mass of sample received	kg	0.001	NONE	2.0				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	10.9				
Electrical Conductivity	µS/cm	10	NONE	590				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	5600				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	2.0				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	2000				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	1.0				
Sulphide	mg/kg	1	MCERTS	2.4				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	16				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5				
Organic Matter	%	0.1	MCERTS	0.9				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	0.56				
Acenaphthene	mg/kg	0.1	MCERTS	0.48				
Fluorene	mg/kg	0.1	MCERTS	0.46				
Phenanthrene	mg/kg	0.1	MCERTS	12				
Anthracene	mg/kg	0.1	MCERTS	1.4				
Fluoranthene	mg/kg	0.1	MCERTS	38				
Pyrene	mg/kg	0.1	MCERTS	22				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	11				
Chrysene	mg/kg	0.05	MCERTS	12				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	11				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	7.2				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	5.5				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	16				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	3.3				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	15				
Coronene	mg/kg	0.05	NONE	4.7				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	160				

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Analytical Report Number: 15-74366

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459440				
Sample Reference				TP201				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				25/06/2015				
Time Taken				0950				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	18000				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	15				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	750				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0				
Boron (water soluble)	mg/kg	0.2	MCERTS	1.6				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	36				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	30				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	25000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	770				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	240				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.0				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	27				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	610				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	74				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	450				
Calcium (aqua regia extractable)	mg/kg	20	NONE	140000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3600				
Potassium (aqua regia extractable)	mg/kg	20	NONE	9100				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	40				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	40				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	11				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	120				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	290				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	420				

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Analytical Report Number: 15-74366

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459440				
Sample Reference				TP201				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				25/06/2015				
Time Taken				0950				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74366

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459440				
Sample Reference				TP201				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				25/06/2015				
Time Taken				0950				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	0.56				
Acenaphthene	mg/kg	0.1	MCERTS	0.48				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	0.7				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	0.46				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	12				
Anthracene	mg/kg	0.1	MCERTS	1.4				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	1.1				
Fluoranthene	mg/kg	0.1	MCERTS	38				
Pyrene	mg/kg	0.1	MCERTS	22				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	11				
Chrysene	mg/kg	0.05	MCERTS	12				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	11				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	7.2				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	5.5				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	16				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	3.3				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	15				

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Analytical Report Number : 15-74366

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459440	TP201	None Supplied	1.00	Light brown sand with rubble and brick.

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Analytical Report Number : 15-74366

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74366

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74336

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	24/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	1 soil sample		

Signed: CC Stone

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: R Rahman

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74336

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459235				
Sample Reference				BH501				
Sample Number				None Supplied				
Depth (m)				7.70				
Date Sampled				23/06/2015				
Time Taken				1550				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	11				
Total mass of sample received	kg	0.001	NONE	1.7				
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile				
Asbestos in Soil	Type	N/A	ISO 17025	Detected				
Asbestos Quantification	%	0.001	ISO 17025	< 0.001				
General Inorganics								
pH	pH Units	N/A	MCERTS	10.5				
Electrical Conductivity	µS/cm	10	NONE	530				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	2500				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.89				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	890				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.44				
Sulphide	mg/kg	1	MCERTS	1.2				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	340				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	13				
Organic Matter	%	0.1	MCERTS	2.6				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	1.9				
Anthracene	mg/kg	0.1	MCERTS	0.63				
Fluoranthene	mg/kg	0.1	MCERTS	2.2				
Pyrene	mg/kg	0.1	MCERTS	1.9				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.1				
Chrysene	mg/kg	0.05	MCERTS	0.92				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	1.1				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.48				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.72				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.39				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.41				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	12				

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Analytical Report Number: 15-74336

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459235				
Sample Reference				BH501				
Sample Number				None Supplied				
Depth (m)				7.70				
Date Sampled				23/06/2015				
Time Taken				1550				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	5800				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.7				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	86				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7				
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.8				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	80				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	16000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	45				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	260				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.9				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	500				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	23				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	93				
Calcium (aqua regia extractable)	mg/kg	20	NONE	310000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	2700				
Potassium (aqua regia extractable)	mg/kg	20	NONE	1300				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	1.7				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	3.4				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	12				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	75				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	91				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	4.2				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	15				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	70				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	89				

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Analytical Report Number: 15-74336

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459235				
Sample Reference				BH501				
Sample Number				None Supplied				
Depth (m)				7.70				
Date Sampled				23/06/2015				
Time Taken				1550				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74336

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459235				
Sample Reference				BH501				
Sample Number				None Supplied				
Depth (m)				7.70				
Date Sampled				23/06/2015				
Time Taken				1550				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	1.9				
Anthracene	mg/kg	0.1	MCERTS	0.63				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	2.2				
Pyrene	mg/kg	0.1	MCERTS	1.9				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.1				
Chrysene	mg/kg	0.05	MCERTS	0.92				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	1.1				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.48				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.72				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.39				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.41				

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Analytical Report Number: 15-74336
Project / Site name: London Paramount Entertainment Resort
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

"The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

Any material greater than 16mm is considered as Bulk sample and reported separately, asbestos content (if any) is not included in the final Quantitative analysis. The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.
Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
459235	BH501	7.70	101	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**

Opinions and interpretations expressed herein are outside the scope of UKAS accreditatior

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Analytical Report Number : 15-74336

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459235	BH501	None Supplied	7.70	Grey loam and sand with gravel.

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Analytical Report Number : 15-74336

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification	The analysis was carried out using documented in-house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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Analytical Report Number : 15-74336

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74331

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	24/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	2 soil samples		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74331

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459219	459220			
Sample Reference				WS101	WS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	3.70			
Date Sampled				23/06/2015	23/06/2015			
Time Taken				1630	1535			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	18	14			
Total mass of sample received	kg	0.001	NONE	1.6	1.5			
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
General Inorganics								
pH	pH Units	N/A	MCERTS	8.8	12.4			
Electrical Conductivity	µS/cm	10	NONE	2200	27000			
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1			
Complex Cyanide	mg/kg	1	NONE	< 1	< 1			
Free Cyanide	mg/kg	1	NONE	< 1	< 1			
Total Sulphate as SO_4	mg/kg	50	MCERTS	46000	86000			
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	4.8	15			
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	4800	15000			
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	2.4	7.5			
Sulphide	mg/kg	1	MCERTS	1.7	1.4			
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	93	3700			
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	4.4			
Organic Matter	%	0.1	MCERTS	0.6	0.3			
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0			
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	220			
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0			
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	< 1.6			

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Analytical Report Number: 15-74331

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459219	459220			
Sample Reference				WS101	WS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	3.70			
Date Sampled				23/06/2015	23/06/2015			
Time Taken				1630	1535			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	16000	19000			
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	3.0	3.3			
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	25	35			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	88	81			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.8	0.7			
Boron (water soluble)	mg/kg	0.2	MCERTS	11	4.9			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	6.9	8.3			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	28			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	65	100			
Iron (aqua regia extractable)	mg/kg	40	MCERTS	15000	15000			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	450	430			
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	190	190			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.5	2.5			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	12			
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	400	390			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	6.5	5.5			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	29	27			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	290	340			
Calcium (aqua regia extractable)	mg/kg	20	NONE	360000	310000			
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3900	3400			
Potassium (aqua regia extractable)	mg/kg	20	NONE	8000	53000			
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	30	< 8.0			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	30	< 10			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10			

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Analytical Report Number: 15-74331

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459219	459220			
Sample Reference				WS101	WS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	3.70			
Date Sampled				23/06/2015	23/06/2015			
Time Taken				1630	1535			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			

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Analytical Report Number: 15-74331

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459219	459220			
Sample Reference				WS101	WS101			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	3.70			
Date Sampled				23/06/2015	23/06/2015			
Time Taken				1630	1535			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2			
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1			
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			

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Analytical Report Number : 15-74331

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459219	WS101	None Supplied	1.00	Grey sandy loam with vegetation.
459220	WS101	None Supplied	3.70	Grey clay and sand.

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Analytical Report Number : 15-74331

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74331

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74330

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	24/06/2015
Your job number:	30766	**Samples instructed on:**	26/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	1 soil sample		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74330

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459218				
Sample Reference				BH203				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				23/06/2015				
Time Taken				1650				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	9.2				
Total mass of sample received	kg	0.001	NONE	1.4				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.1				
Electrical Conductivity	µS/cm	10	NONE	1700				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	16000				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	3.5				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	3500				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	1.7				
Sulphide	mg/kg	1	MCERTS	4.5				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	41				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5				
Organic Matter	%	0.1	MCERTS	1.5				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.14				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	0.82				
Anthracene	mg/kg	0.1	MCERTS	0.10				
Fluoranthene	mg/kg	0.1	MCERTS	1.2				
Pyrene	mg/kg	0.1	MCERTS	1.0				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.75				
Chrysene	mg/kg	0.05	MCERTS	0.41				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.60				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.42				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.53				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.25				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.30				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	6.5				

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Analytical Report Number: 15-74330

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459218				
Sample Reference				BH203				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				23/06/2015				
Time Taken				1650				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	9500				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	3.2				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.8				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	82				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.6				
Boron (water soluble)	mg/kg	0.2	MCERTS	2.7				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	59				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	19000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	52				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	360				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.9				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	990				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	31				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100				
Calcium (aqua regia extractable)	mg/kg	20	NONE	340000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3100				
Potassium (aqua regia extractable)	mg/kg	20	NONE	2800				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	3.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	32				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	35				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	16				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	16				

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Analytical Report Number: 15-74330

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459218				
Sample Reference				BH203				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				23/06/2015				
Time Taken				1650				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74330

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				459218				
Sample Reference				BH203				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				23/06/2015				
Time Taken				1650				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	0.14				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	0.82				
Anthracene	mg/kg	0.1	MCERTS	0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	1.2				
Pyrene	mg/kg	0.1	MCERTS	1.0				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.75				
Chrysene	mg/kg	0.05	MCERTS	0.41				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.60				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.42				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.53				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.25				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.30				

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Analytical Report Number : 15-74330

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
459218	BH203	None Supplied	0.50	Light grey loam and sand with gravel.

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Analytical Report Number : 15-74330

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74330

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74185

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	23/06/2015
Your job number:	30766	**Samples instructed on:**	24/06/2015
Your order number:		**Analysis completed by:**	01/07/2015
Report Issue Number:	1	**Report issued on:**	01/07/2015
Samples Analysed:	2 soil samples		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74185

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458272	458273			
Sample Reference				BH501	BH501			
Sample Number				None Supplied	None Supplied			
Depth (m)				3.00	5.50			
Date Sampled				22/06/2015	22/06/2015			
Time Taken				1415	1545			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	22	16			
Total mass of sample received	kg	0.001	NONE	2.0	2.0			
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
General Inorganics								
pH	pH Units	N/A	NONE	11.4	11.1			
Electrical Conductivity	µS/cm	10	NONE	1200	950			
Total Cyanide	mg/kg	1	NONE	< 1	< 1			
Complex Cyanide	mg/kg	1	NONE	< 1	< 1			
Free Cyanide	mg/kg	1	NONE	< 1	< 1			
Total Sulphate as SO_4	mg/kg	50	NONE	2000	1600			
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	NONE	1.3	0.80			
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	NONE	1300	800			
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	NONE	0.67	0.40			
Sulphide	mg/kg	1	NONE	< 1.0	< 1.0			
Water Soluble Chloride (2:1)	mg/kg	1	NONE	700	820			
Ammoniacal Nitrogen as N	mg/kg	0.5	NONE	0.8	4.2			
Organic Matter	%	0.1	NONE	0.4	< 0.1			
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0			
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20			
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0			
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	NONE	< 1.0	< 1.0			
Speciated PAHs								
Naphthalene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Acenaphthylene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Fluorene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Phenanthrene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Fluoranthene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Benzo(a)anthracene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	< 1.6			

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Analytical Report Number: 15-74185

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458272	458273			
Sample Reference				BH501	BH501			
Sample Number				None Supplied	None Supplied			
Depth (m)				3.00	5.50			
Date Sampled				22/06/2015	22/06/2015			
Time Taken				1415	1545			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	1400	1500			
Antimony (aqua regia extractable)	mg/kg	1	NONE	< 1.0	< 1.0			
Arsenic (aqua regia extractable)	mg/kg	1	NONE	2.2	< 1.0			
Barium (aqua regia extractable)	mg/kg	1	NONE	29	31			
Beryllium (aqua regia extractable)	mg/kg	0.06	NONE	< 0.1	< 0.1			
Boron (water soluble)	mg/kg	0.2	NONE	0.7	0.9			
Cadmium (aqua regia extractable)	mg/kg	0.2	NONE	0.3	< 0.2			
Chromium (hexavalent)	mg/kg	4	NONE	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	NONE	11	9.2			
Copper (aqua regia extractable)	mg/kg	1	NONE	3.5	5.9			
Iron (aqua regia extractable)	mg/kg	40	NONE	1400	1700			
Lead (aqua regia extractable)	mg/kg	1	NONE	2.9	4.6			
Manganese (aqua regia extractable)	mg/kg	1	NONE	200	210			
Mercury (aqua regia extractable)	mg/kg	0.3	NONE	< 0.3	< 0.3			
Molybdenum (aqua regia extractable)	mg/kg	0.25	NONE	< 0.3	< 0.3			
Nickel (aqua regia extractable)	mg/kg	1	NONE	8.4	7.1			
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	370	380			
Selenium (aqua regia extractable)	mg/kg	1	NONE	1.6	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	NONE	5.8	6.0			
Zinc (aqua regia extractable)	mg/kg	1	NONE	16	19			
Calcium (aqua regia extractable)	mg/kg	20	NONE	430000	460000			
Magnesium (aqua regia extractable)	mg/kg	20	NONE	2300	2100			
Potassium (aqua regia extractable)	mg/kg	20	NONE	330	370			
Monoaromatics								
Benzene	µg/kg	1	NONE	< 1.0	< 1.0			
Toluene	µg/kg	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	NONE	< 1.0	< 1.0			
o-xylene	µg/kg	1	NONE	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	NONE	< 1.0	< 1.0			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	NONE	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	NONE	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	NONE	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	NONE	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	NONE	< 2.0	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	NONE	< 8.0	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	NONE	< 8.0	< 8.0			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	NONE	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	NONE	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	NONE	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	NONE	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	NONE	< 2.0	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	NONE	< 10	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	NONE	< 10	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	NONE	< 10	< 10			

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Analytical Report Number: 15-74185

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458272	458273			
Sample Reference				BH501	BH501			
Sample Number				None Supplied	None Supplied			
Depth (m)				3.00	5.50			
Date Sampled				22/06/2015	22/06/2015			
Time Taken				1415	1545			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Bromomethane	µg/kg	1	NONE	< 1.0	< 1.0			
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0			
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0			
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	NONE	< 1.0	< 1.0			
1,1-Dichloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
Trichloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dichloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
Benzene	µg/kg	1	NONE	< 1.0	< 1.0			
Tetrachloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
Trichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
Dibromomethane	µg/kg	1	NONE	< 1.0	< 1.0			
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0			
Toluene	µg/kg	1	NONE	< 1.0	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
1,3-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
Dibromochloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dibromoethane	µg/kg	1	NONE	< 1.0	< 1.0			
Chlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
p & m-Xylene	µg/kg	1	NONE	< 1.0	< 1.0			
Styrene	µg/kg	1	NONE	< 1.0	< 1.0			
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0			
o-Xylene	µg/kg	1	NONE	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
Bromobenzene	µg/kg	1	NONE	< 1.0	< 1.0			
n-Propylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			
p-Isopropyltoluene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74185

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458272	458273			
Sample Reference				BH501	BH501			
Sample Number				None Supplied	None Supplied			
Depth (m)				3.00	5.50			
Date Sampled				22/06/2015	22/06/2015			
Time Taken				1415	1545			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Phenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
2-Chlorophenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	NONE	< 0.2	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	NONE	< 0.1	< 0.1			
1,4-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	NONE	< 0.1	< 0.1			
2-Methylphenol	mg/kg	0.3	NONE	< 0.3	< 0.3			
Hexachloroethane	mg/kg	0.05	NONE	< 0.05	< 0.05			
Nitrobenzene	mg/kg	0.3	NONE	< 0.3	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
Isophorone	mg/kg	0.2	NONE	< 0.2	< 0.2			
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	NONE	< 0.3	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	NONE	< 0.3	< 0.3			
1,2,4-Trichlorobenzene	mg/kg	0.3	NONE	< 0.3	< 0.3			
Naphthalene	mg/kg	0.05	NONE	< 0.05	< 0.05			
2,4-Dichlorophenol	mg/kg	0.3	NONE	< 0.3	< 0.3			
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	NONE	< 0.1	< 0.1			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1			
2-Chloronaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1			
Dimethylphthalate	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1	< 0.1			
Acenaphthylene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	NONE	< 0.10	< 0.10			
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2	< 0.2			
Dibenzofuran	mg/kg	0.2	NONE	< 0.2	< 0.2			
4-Chlorophenyl phenyl ether	mg/kg	0.3	NONE	< 0.3	< 0.3			
Diethyl phthalate	mg/kg	0.2	NONE	< 0.2	< 0.2			
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2	< 0.2			
Fluorene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Azobenzene	mg/kg	0.3	NONE	< 0.3	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	NONE	< 0.2	< 0.2			
Hexachlorobenzene	mg/kg	0.3	NONE	< 0.3	< 0.3			
Phenanthrene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Carbazole	mg/kg	0.3	NONE	< 0.3	< 0.3			
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2	< 0.2			
Anthraquinone	mg/kg	0.3	NONE	< 0.3	< 0.3			
Fluoranthene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3	< 0.3			
Benzo(a)anthracene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	NONE	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	NONE	< 0.05	< 0.05			

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Analytical Report Number : 15-74185

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
458272	BH501	None Supplied	3.00	Beige chalk. **
458273	BH501	None Supplied	5.50	Beige chalk. **

** Non MCerts Matrix

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Analytical Report Number : 15-74185

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74185

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74184

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	19/06/2015
Your job number:	30766	**Samples instructed on:**	24/06/2015
Your order number:		**Analysis completed by:**	30/06/2015
Report Issue Number:	1	**Report issued on:**	30/06/2015
Samples Analysed:	1 soil sample		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74184

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458271				
Sample Reference				BH501				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				17/06/2015				
Time Taken				1450				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	16				
Total mass of sample received	kg	0.001	NONE	2.0				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.4				
Electrical Conductivity	µS/cm	10	NONE	220				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	810				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.12				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	120				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.062				
Sulphide	mg/kg	1	MCERTS	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	17				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5				
Organic Matter	%	0.1	MCERTS	0.4				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Analytical Report Number: 15-74184

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458271				
Sample Reference				BH501				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				17/06/2015				
Time Taken				1450				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	3600				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	3.3				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	30				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.2				
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	10				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	8.8				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	6500				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	6.7				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	250				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.0				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	410				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	13				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	32				
Calcium (aqua regia extractable)	mg/kg	20	NONE	340000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	2400				
Potassium (aqua regia extractable)	mg/kg	20	NONE	1000				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	15				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	15				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	17				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	17				

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Analytical Report Number: 15-74184

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458271				
Sample Reference				BH501				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				17/06/2015				
Time Taken				1450				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74184

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458271				
Sample Reference				BH501				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				17/06/2015				
Time Taken				1450				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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Analytical Report Number : 15-74184

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
458271	BH501	None Supplied	0.50	Beige sandy loam with gravel and chalk.

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Analytical Report Number : 15-74184

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74184

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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i2 Job Number
15-74184_1 SD

Sample Deviation Report

Sample ID		BH501
Other ID		
Sample Type		S
Job Number		15-74184
Sample Number		458271
Deviation Code		c
Test Name	**Method no**	
Complex cyanide in soil	L080-PL	c
Free cyanide in soil	L080-PL	c
Monohydric phenols in soil	L080-PL	c
Semi-volatile organic compounds in soil	L064-PL	c
Speciated WAC-17 PAHs in soil	L064-PL	c
Sulphide in soil	L010-PL	c
Total cyanide in soil	L080-PL	c
Volatile organic compounds in soil	L073S-PL	c
BTEX and MTBE in soil	L073S-PL	c
Speciated WAC-17 PAHs in soil	L064-PL	c
TPHCWG (Soil)	L076-PL	c
Volatile organic compounds in soil	L073S-PL	c

Key: a - No sampling date b - Incorrect container
c - Holding time d - Headspace e - Temperature

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Analytical Report Number : 15-74181

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	19/06/2015
Your job number:	30766	**Samples instructed on:**	24/06/2015
Your order number:		**Analysis completed by:**	03/07/2015
Report Issue Number:	1	**Report issued on:**	03/07/2015
Samples Analysed:	5 soil samples - 1 water sample		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458256	458257	458258	458259	458260
Sample Reference				BH101	BH101	BH101	BH101	BH101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	2.00	4.00	5.00
Date Sampled				18/06/2015	18/06/2015	18/06/2015	18/06/2015	18/06/2015
Time Taken				0855	1045	1100	1155	1215
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	22	31	38	38	36
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile- Loose fibres	Chrysotile- Loose fibres; Crocidolite- loose fibres	Chrysotile- Loose fibres	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Detected	Detected	Not-detected	Not-detected
General Inorganics								
pH	pH Units	N/A	MCERTS	6.6	10.4	8.8	8.1	8.2
Electrical Conductivity	µS/cm	10	NONE	2500	8800	8100	6900	5100
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	1	< 1	< 1
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	1	< 1	< 1
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO_4	mg/kg	50	MCERTS	17000	15000	9200	2000	1300
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	4.1	10	9.3	3.1	0.52
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	4100	10000	9300	3100	520
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	2.0	5.0	4.6	1.6	0.26
Sulphide	mg/kg	1	MCERTS	< 1.0	86	37	65	68
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	390	7000	7000	5100	4000
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5	270	160	26
Organic Matter	%	0.1	MCERTS	0.9	3.4	5.0	3.7	3.9
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20	< 20	< 20
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.26	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.22	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.50	1.2	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.18	0.37	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	0.38	1.2	2.6	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	0.30	1.0	2.1	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.22	0.74	1.5	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	0.17	0.66	1.4	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.25	1.2	2.3	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.50	1.1	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.17	0.97	2.0	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.64	1.4	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.26	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.78	1.6	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	8.4	19	< 1.6	< 1.6

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458256	458257	458258	458259	458260
Sample Reference				BH101	BH101	BH101	BH101	BH101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	2.00	4.00	5.00
Date Sampled				18/06/2015	18/06/2015	18/06/2015	18/06/2015	18/06/2015
Time Taken				0855	1045	1100	1155	1215
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	14000	17000	18000	28000	25000
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	18	35	21	13
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	100	170	43	39
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	1.0	1.1	1.5	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	4.5	7.6	11	9.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	2.0	4.0	7.0	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	70	110	54	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	210	95	160	21	12
Iron (aqua regia extractable)	mg/kg	40	MCERTS	37000	30000	36000	56000	42000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	170	120	190	32	21
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	300	270	310	980	220
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	2.0	4.5	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	3.5	1.8	3.5	1.6	0.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	37	30	42	39	26
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	410	2000	3800	900	640
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	4.4	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	48	49	62	84	64
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	310	280	480	110	74
Calcium (aqua regia extractable)	mg/kg	20	NONE	38000	88000	79000	19000	31000
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3100	6600	6700	11000	8300
Potassium (aqua regia extractable)	mg/kg	20	NONE	6100	23000	27000	10000	5700
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	6.1	13	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	8.2	42	98	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	53	160	380	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	61	210	490	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	4.0	3.0	6.7	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	31	71	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	28	170	370	< 10	20
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	32	200	450	< 10	20

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458256	458257	458258	458259	458260
Sample Reference				BH101	BH101	BH101	BH101	BH101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	2.00	4.00	5.00
Date Sampled				18/06/2015	18/06/2015	18/06/2015	18/06/2015	18/06/2015
Time Taken				0855	1045	1100	1155	1215
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458256	458257	458258	458259	458260
Sample Reference				BH101	BH101	BH101	BH101	BH101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	2.00	4.00	5.00
Date Sampled				18/06/2015	18/06/2015	18/06/2015	18/06/2015	18/06/2015
Time Taken				0855	1045	1100	1155	1215
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.26	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.22	< 0.10	< 0.10
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.50	1.2	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.18	0.37	< 0.10	< 0.10
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.1	MCERTS	0.38	1.2	2.6	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	0.30	1.0	2.1	< 0.10	< 0.10
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.22	0.74	1.5	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	0.17	0.66	1.4	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.25	1.2	2.3	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.50	1.1	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.17	0.97	2.0	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.64	1.4	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.26	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.78	1.6	< 0.05	< 0.05

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458261				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				2.80				
Date Sampled				19/06/2015				
Time Taken				1100				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	8.3				
Electrical Conductivity	µS/cm	10	NONE	23000				
Total Cyanide	µg/l	10	ISO 17025	< 10				
Complex Cyanide	µg/l	10	NONE	< 10				
Free Cyanide	µg/l	10	ISO 17025	< 10				
Sulphate as SO_4	µg/l	45	ISO 17025	1820000				
Sulphide	µg/l	5	NONE	< 5.0				
Chloride	mg/l	0.15	ISO 17025	20000				
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	100000				
Nitrate as N	mg/l	0.01	ISO 17025	0.34				
Nitrate as NO_3	mg/l	0.05	ISO 17025	1.50				
Nitrite as N	µg/l	1	ISO 17025	4.0				
Nitrite as NO_2	µg/l	5	ISO 17025	13				
Chemical Oxygen Demand (Settled)	mg/l	2	ISO 17025	300				
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	350				
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	0.3				
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	650				
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01				
Fluorene	µg/l	0.01	ISO 17025	< 0.01				
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01				
Anthracene	µg/l	0.01	ISO 17025	< 0.01				
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Pyrene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Chrysene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01				
Coronene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2				
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2				

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458261				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				2.80				
Date Sampled				19/06/2015				
Time Taken				1100				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0190				
Antimony (dissolved)	µg/l	0.4	ISO 17025	6.8				
Arsenic (dissolved)	µg/l	0.15	ISO 17025	24.7				
Barium (dissolved)	µg/l	0.06	ISO 17025	250				
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1				
Boron (dissolved)	µg/l	10	ISO 17025	1300				
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.04				
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0				
Chromium (dissolved)	µg/l	0.2	ISO 17025	6.0				
Copper (dissolved)	µg/l	0.5	ISO 17025	6.1				
Iron (dissolved)	mg/l	0.004	ISO 17025	0.41				
Lead (dissolved)	µg/l	0.2	ISO 17025	2.7				
Manganese (dissolved)	µg/l	0.05	ISO 17025	84				
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05				
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	51				
Nickel (dissolved)	µg/l	0.5	ISO 17025	9.4				
Selenium (dissolved)	µg/l	0.6	ISO 17025	210				
Vanadium (dissolved)	µg/l	0.2	ISO 17025	19				
Zinc (dissolved)	µg/l	0.5	ISO 17025	3.1				
Calcium (dissolved)	mg/l	0.012	ISO 17025	270				
Magnesium (dissolved)	mg/l	0.005	ISO 17025	610				
Potassium (dissolved)	mg/l	0.025	ISO 17025	4700				
Phosphorus (total)	mg/l	0.05	ISO 17025	86				
Phosphorus (total)	µg/l	20	ISO 17025	86000				
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0				
Toluene	µg/l	1	ISO 17025	< 1.0				
Ethylbenzene	µg/l	1	ISO 17025	< 1.0				
p & m-xylene	µg/l	1	ISO 17025	< 1.0				
o-xylene	µg/l	1	ISO 17025	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458261				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				2.80				
Date Sampled				19/06/2015				
Time Taken				1100				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0				
Chloroethane	µg/l	1	ISO 17025	< 1.0				
Bromomethane	µg/l	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/l	1	NONE	< 1.0				
Trichlorofluoromethane	µg/l	1	NONE	< 1.0				
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0				
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0				
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Trichloromethane	µg/l	1	ISO 17025	< 1.0				
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0				
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0				
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0				
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0				
Benzene	µg/l	1	ISO 17025	< 1.0				
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0				
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Trichloroethene	µg/l	1	ISO 17025	< 1.0				
Dibromomethane	µg/l	1	ISO 17025	< 1.0				
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0				
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0				
Toluene	µg/l	1	ISO 17025	< 1.0				
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0				
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0				
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0				
Chlorobenzene	µg/l	1	ISO 17025	< 1.0				
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0				
Ethylbenzene	µg/l	1	ISO 17025	< 1.0				
p & m-Xylene	µg/l	1	ISO 17025	< 1.0				
Styrene	µg/l	1	ISO 17025	< 1.0				
Tribromomethane	µg/l	1	ISO 17025	< 1.0				
o-Xylene	µg/l	1	ISO 17025	< 1.0				
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0				
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0				
Bromobenzene	µg/l	1	ISO 17025	< 1.0				
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0				
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0				
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0				
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0				
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0				

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458261				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				2.80				
Date Sampled				19/06/2015				
Time Taken				1100				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05				
Phenol	µg/l	0.05	NONE	< 0.05				
2-Chlorophenol	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05				
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05				
2-Methylphenol	µg/l	0.05	NONE	< 0.05				
Hexachloroethane	µg/l	0.05	NONE	< 0.05				
Nitrobenzene	µg/l	0.05	NONE	< 0.05				
4-Methylphenol	µg/l	0.05	NONE	< 0.05				
Isophorone	µg/l	0.05	NONE	< 0.05				
2-Nitrophenol	µg/l	0.05	NONE	< 0.05				
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05				
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05				
Naphthalene	µg/l	0.01	ISO 17025	< 0.01				
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05				
4-Chloroaniline	µg/l	0.05	NONE	< 0.05				
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05				
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05				
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05				
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05				
Dimethylphthalate	µg/l	0.05	NONE	< 0.05				
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05				
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01				
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05				
Dibenzofuran	µg/l	0.05	NONE	< 0.05				
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05				
Diethyl phthalate	µg/l	0.05	NONE	< 0.05				
4-Nitroaniline	µg/l	0.05	NONE	< 0.05				
Fluorene	µg/l	0.01	ISO 17025	< 0.01				
Azobenzene	µg/l	0.05	NONE	< 0.05				
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05				
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02				
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01				
Anthracene	µg/l	0.01	ISO 17025	< 0.01				
Carbazole	µg/l	0.05	NONE	< 0.05				
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05				
Anthraquinone	µg/l	0.05	NONE	< 0.05				
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Pyrene	µg/l	0.01	ISO 17025	< 0.01				
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05				
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Chrysene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01				

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 15-74181

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
458256	BH101	None Supplied	0.50	Light brown clay and sand with vegetation.
458257	BH101	None Supplied	1.50	Beige clay and sand with vegetation.
458258	BH101	None Supplied	2.00	Grey clay and sand.
458259	BH101	None Supplied	4.00	Light grey clay and sand.
458260	BH101	None Supplied	5.00	Light grey clay and sand.

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Analytical Report Number : 15-74181

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chemical Oxygen Demand in Water (Settled)	Determination of settled COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025

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Analytical Report Number : 15-74181

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74181

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

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Preliminary Report Number : 15-74181

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	19/06/2015
Your job number:	30766	**Samples instructed on:**	24/06/2015
Your order number:		**Analysis completed by:**	not complete
Report Issue Number:	0	**Report issued on:**	30/06/2015
Samples Analysed:	5 soil samples - 1 water sample		

Signed: CCStone

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458256	458257	458258	458259	458260
Sample Reference				BH101	BH101	BH101	BH101	BH101
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	2.00	4.00	5.00
Date Sampled				18/06/2015	18/06/2015	18/06/2015	18/06/2015	18/06/2015
Time Taken				0855	1045	1100	1155	1215
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	22	31	38	38	36
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	2.0	2.0
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile- Loose fibres	Chrysotile- Loose fibres; Crocidolite- loose fibres	Chrysotile- Loose fibres	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Detected	Detected	Not-detected	Not-detected
General Inorganics								
pH	pH Units	N/A	MCERTS	6.6	10.4	8.8	8.1	8.2
Electrical Conductivity	µS/cm	10	NONE	2500	8800	8100	6900	5100
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	1	< 1	< 1
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	1	< 1	< 1
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO_4	mg/kg	50	MCERTS	17000	15000	9200	2000	1300
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	4.1	10	9.3	3.1	0.52
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	4100	10000	9300	3100	520
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	2.0	5.0	4.6	1.6	0.26
Sulphide	mg/kg	1	MCERTS	< 1.0	86	37	65	68
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	390	7000	7000	5100	4000
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5	270	160	26
Organic Matter	%	0.1	MCERTS	0.9	3.4	5.0	3.7	3.9
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20	< 20	< 20
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.26	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.22	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.50	1.2	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.18	0.37	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	0.38	1.2	2.6	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	0.30	1.0	2.1	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.22	0.74	1.5	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	0.17	0.66	1.4	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.25	1.2	2.3	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.50	1.1	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.17	0.97	2.0	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.64	1.4	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.26	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.78	1.6	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	8.4	19	< 1.6	< 1.6

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Time Taken				0855	1045	1100	1155	1215
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	14000	17000	18000	28000	25000
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	18	35	21	13
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	100	170	43	39
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	1.0	1.1	1.5	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	4.5	7.6	11	9.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	2.0	4.0	7.0	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	70	110	54	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	210	95	160	21	12
Iron (aqua regia extractable)	mg/kg	40	MCERTS	37000	30000	36000	56000	42000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	170	120	190	32	21
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	300	270	310	980	220
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	2.0	4.5	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	3.5	1.8	3.5	1.6	0.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	37	30	42	39	26
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	410	2000	3800	900	640
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	4.4	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	48	49	62	84	64
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	310	280	480	110	74
Calcium (aqua regia extractable)	mg/kg	20	NONE	38000	88000	79000	19000	31000
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3100	6600	6700	11000	8300
Potassium (aqua regia extractable)	mg/kg	20	NONE	6100	23000	27000	10000	5700
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	6.1	13	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	8.2	42	98	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	53	160	380	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	61	210	490	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	4.0	3.0	6.7	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	31	71	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	28	170	370	< 10	20
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	32	200	450	< 10	20

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Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.50	2.00	4.00	5.00
Date Sampled				18/06/2015	18/06/2015	18/06/2015	18/06/2015	18/06/2015
Time Taken				0855	1045	1100	1155	1215
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Time Taken				0855	1045	1100	1155	1215
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.26	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.22	< 0.10	< 0.10
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.50	1.2	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.18	0.37	< 0.10	< 0.10
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.1	MCERTS	0.38	1.2	2.6	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	0.30	1.0	2.1	< 0.10	< 0.10
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.22	0.74	1.5	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	0.17	0.66	1.4	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.25	1.2	2.3	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.50	1.1	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.17	0.97	2.0	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.64	1.4	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.26	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.78	1.6	< 0.05	< 0.05

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458261				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				2.80				
Date Sampled				19/06/2015				
Time Taken				1100				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	8.3				
Electrical Conductivity	µS/cm	10	NONE	23000				
Total Cyanide	µg/l	10	ISO 17025	< 10				
Complex Cyanide	µg/l	10	NONE	< 10				
Free Cyanide	µg/l	10	ISO 17025	< 10				
Sulphate as SO_4	µg/l	45	ISO 17025	1820000				
Sulphide	µg/l	5	NONE	< 5.0				
Chloride	mg/l	0.15	ISO 17025	20000				
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	100000				
Nitrate as N	mg/l	0.01	ISO 17025	0.34				
Nitrate as NO_3	mg/l	0.05	ISO 17025	1.50				
Nitrite as N	µg/l	1	ISO 17025	4.0				
Nitrite as NO_2	µg/l	5	ISO 17025	13				
Chemical Oxygen Demand (Settled)	mg/l	2	ISO 17025	300				
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	To follow				
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	0.3				
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	650				
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01				
Fluorene	µg/l	0.01	ISO 17025	< 0.01				
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01				
Anthracene	µg/l	0.01	ISO 17025	< 0.01				
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Pyrene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Chrysene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01				
Coronene	µg/l	0.01	NONE	< 0.01				
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2				
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2				

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458261				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				2.80				
Date Sampled				19/06/2015				
Time Taken				1100				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.0190				
Antimony (dissolved)	µg/l	0.4	ISO 17025	6.8				
Arsenic (dissolved)	µg/l	0.15	ISO 17025	24.7				
Barium (dissolved)	µg/l	0.06	ISO 17025	250				
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1				
Boron (dissolved)	µg/l	10	ISO 17025	1300				
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.04				
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0				
Chromium (dissolved)	µg/l	0.2	ISO 17025	6.0				
Copper (dissolved)	µg/l	0.5	ISO 17025	6.1				
Iron (dissolved)	mg/l	0.004	ISO 17025	0.41				
Lead (dissolved)	µg/l	0.2	ISO 17025	2.7				
Manganese (dissolved)	µg/l	0.05	ISO 17025	84				
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05				
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	51				
Nickel (dissolved)	µg/l	0.5	ISO 17025	9.4				
Selenium (dissolved)	µg/l	0.6	ISO 17025	210				
Vanadium (dissolved)	µg/l	0.2	ISO 17025	19				
Zinc (dissolved)	µg/l	0.5	ISO 17025	3.1				
Calcium (dissolved)	mg/l	0.012	ISO 17025	270				
Magnesium (dissolved)	mg/l	0.005	ISO 17025	610				
Potassium (dissolved)	mg/l	0.025	ISO 17025	4700				
Phosphorus (total)	mg/l	0.05	ISO 17025	86				
Phosphorus (total)	µg/l	20	ISO 17025	86000				
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0				
Toluene	µg/l	1	ISO 17025	< 1.0				
Ethylbenzene	µg/l	1	ISO 17025	< 1.0				
p & m-xylene	µg/l	1	ISO 17025	< 1.0				
o-xylene	µg/l	1	ISO 17025	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10				
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10				

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458261				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				2.80				
Date Sampled				19/06/2015				
Time Taken				1100				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0				
Chloroethane	µg/l	1	ISO 17025	< 1.0				
Bromomethane	µg/l	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/l	1	NONE	< 1.0				
Trichlorofluoromethane	µg/l	1	NONE	< 1.0				
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0				
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0				
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Trichloromethane	µg/l	1	ISO 17025	< 1.0				
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0				
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0				
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0				
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0				
Benzene	µg/l	1	ISO 17025	< 1.0				
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0				
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Trichloroethene	µg/l	1	ISO 17025	< 1.0				
Dibromomethane	µg/l	1	ISO 17025	< 1.0				
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0				
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0				
Toluene	µg/l	1	ISO 17025	< 1.0				
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0				
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0				
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0				
Chlorobenzene	µg/l	1	ISO 17025	< 1.0				
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0				
Ethylbenzene	µg/l	1	ISO 17025	< 1.0				
p & m-Xylene	µg/l	1	ISO 17025	< 1.0				
Styrene	µg/l	1	ISO 17025	< 1.0				
Tribromomethane	µg/l	1	ISO 17025	< 1.0				
o-Xylene	µg/l	1	ISO 17025	< 1.0				
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0				
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0				
Bromobenzene	µg/l	1	ISO 17025	< 1.0				
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0				
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0				
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0				
Butylbenzene	µg/l	1	ISO 17025	< 1.0				
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0				
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0				
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0				

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Analytical Report Number: 15-74181

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458261				
Sample Reference				BH101				
Sample Number				None Supplied				
Depth (m)				2.80				
Date Sampled				19/06/2015				
Time Taken				1100				
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05				
Phenol	µg/l	0.05	NONE	< 0.05				
2-Chlorophenol	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05				
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05				
2-Methylphenol	µg/l	0.05	NONE	< 0.05				
Hexachloroethane	µg/l	0.05	NONE	< 0.05				
Nitrobenzene	µg/l	0.05	NONE	< 0.05				
4-Methylphenol	µg/l	0.05	NONE	< 0.05				
Isophorone	µg/l	0.05	NONE	< 0.05				
2-Nitrophenol	µg/l	0.05	NONE	< 0.05				
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05				
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05				
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05				
Naphthalene	µg/l	0.01	ISO 17025	< 0.01				
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05				
4-Chloroaniline	µg/l	0.05	NONE	< 0.05				
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05				
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05				
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05				
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05				
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05				
Dimethylphthalate	µg/l	0.05	NONE	< 0.05				
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05				
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01				
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01				
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05				
Dibenzofuran	µg/l	0.05	NONE	< 0.05				
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05				
Diethyl phthalate	µg/l	0.05	NONE	< 0.05				
4-Nitroaniline	µg/l	0.05	NONE	< 0.05				
Fluorene	µg/l	0.01	ISO 17025	< 0.01				
Azobenzene	µg/l	0.05	NONE	< 0.05				
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05				
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02				
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01				
Anthracene	µg/l	0.01	ISO 17025	< 0.01				
Carbazole	µg/l	0.05	NONE	< 0.05				
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05				
Anthraquinone	µg/l	0.05	NONE	< 0.05				
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Pyrene	µg/l	0.01	ISO 17025	< 0.01				
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05				
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Chrysene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01				
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01				
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01				

U/S = Unsuitable Sample I/S = Insufficient Sample

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Preliminary Report Number : 15-74181

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
458256	BH101	None Supplied	0.50	Light brown clay and sand with vegetation.
458257	BH101	None Supplied	1.50	Beige clay and sand with vegetation.
458258	BH101	None Supplied	2.00	Grey clay and sand.
458259	BH101	None Supplied	4.00	Light grey clay and sand.
458260	BH101	None Supplied	5.00	Light grey clay and sand.

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Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chemical Oxygen Demand in Water (Settled)	Determination of settled COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025

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The results included within the report are representative of the samples submitted for analysis.

Preliminary Report Number : 15-74181

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Preliminary Report Number : 15-74181

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

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i2 Job Number
15-74181_1 SD

Sample Deviation Report

Sample ID		BH101	BH101	BH101	BH101	BH101	BH101
Other ID							
Sample Type		S	S	S	S	S	W
Job Number		15-74181	15-74181	15-74181	15-74181	15-74181	15-74181
Sample Number		458256	458257	458258	458259	458260	458261
Deviation Code		c	c	c	c	c	c
Test Name	**Method no**						
Ammoniacal Nitrogen as N in water	L082-PL	-	-	-	-	-	c
Biological oxygen demand of water	L086-PL	-	-	-	-	-	c
Electrical conductivity of water	L031-PL	-	-	-	-	-	c
Hexavalent chromium in water	L080-PL	-	-	-	-	-	c
Nitrate as N in water	L078-PL	-	-	-	-	-	c
Nitrate in water	L078-PL	-	-	-	-	-	c
Nitrite as N in water	L077-Pl	-	-	-	-	-	c
Nitrite in water	L077-PL	-	-	-	-	-	c
pH in water	L005-PL	-	-	-	-	-	c
Sulphide in soil	L010-PL	c	c	c	c	c	-
Sulphide in water	L010-PL	-	-	-	-	-	c
Total oxidised nitrogen in water	L078-PL	-	-	-	-	-	c

Key: a - No sampling date b - Incorrect container
c - Holding time d - Headspace e - Temperature

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Analytical Report Number : 15-74176

Replaces Analytical Report Number : 15-74176, issue no. 1

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	23/06/2015
Your job number:	30766	**Samples instructed on:**	24/06/2015
Your order number:		**Analysis completed by:**	02/07/2015
Report Issue Number:	2	**Report issued on:**	02/07/2015
Samples Analysed:	3 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74176

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458244	458245	458246		
Sample Reference				BH204	BH204	BH204		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				1.00	3.00	3.60		
Date Sampled				23/06/2015	23/06/2015	23/06/2015		
Time Taken				1100	1120	1150		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	32	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	6.3	32	34		
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0		
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	Chrysotile	Chrysotile		
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Detected	Detected		
Asbestos Quantification	%	0.001	ISO 17025	< 0.001	< 0.001	< 0.001		
General Inorganics								
pH	pH Units	N/A	MCERTS	11.1	8.4	8.3		
Electrical Conductivity	µS/cm	10	NONE	740	520	480		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1		
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Total Sulphate as SO_4	mg/kg	50	MCERTS	5400	1900	2500		
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	1.1	1.8	1.7		
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	1100	1800	1700		
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.56	0.92	0.84		
Sulphide	mg/kg	1	MCERTS	6.6	30	22		
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	66	68	280		
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	18	28		
Organic Matter	%	0.1	MCERTS	1.2	3.8	3.8		
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0		
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20		
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0		
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.31	0.49	0.55		
Acenaphthylene	mg/kg	0.1	MCERTS	0.37	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluorene	mg/kg	0.1	MCERTS	0.45	< 0.10	< 0.10		
Phenanthrene	mg/kg	0.1	MCERTS	1.6	0.45	0.54		
Anthracene	mg/kg	0.1	MCERTS	0.61	0.12	0.16		
Fluoranthene	mg/kg	0.1	MCERTS	2.0	0.63	0.85		
Pyrene	mg/kg	0.1	MCERTS	1.5	0.50	0.71		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.0	0.37	0.53		
Chrysene	mg/kg	0.05	MCERTS	0.81	0.36	0.47		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.88	0.62	0.79		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.41	0.18	0.35		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.67	0.46	0.58		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.38	0.32	0.45		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.43	0.39	0.57		
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05		
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	11	4.9	6.6		

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Analytical Report Number: 15-74176

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458244	458245	458246		
Sample Reference				BH204	BH204	BH204		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				1.00	3.00	3.60		
Date Sampled				23/06/2015	23/06/2015	23/06/2015		
Time Taken				1100	1120	1150		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	12000	24000	27000		
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.1	3.3	3.5		
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.5	19	23		
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	100	160		
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.9	1.6	2.3		
Boron (water soluble)	mg/kg	0.2	MCERTS	2.2	6.0	5.7		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	59	44	50		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	34	27	48		
Iron (aqua regia extractable)	mg/kg	40	MCERTS	21000	40000	46000		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	47	41	47		
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	370	320	300		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3	< 0.3		
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.9	1.5	1.5		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	36	28	35		
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	750	480	480		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	39	74	85		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	84	88	92		
Calcium (aqua regia extractable)	mg/kg	20	NONE	150000	81000	53000		
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	4300	5600	6600		
Potassium (aqua regia extractable)	mg/kg	20	NONE	2400	6300	6600		
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	3.0		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	21	12	22		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	61	150	280		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	82	160	300		
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	2.4	< 2.0	< 2.0		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	18	< 10	16		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	36	37	110		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	56	37	130		

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Analytical Report Number: 15-74176

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458244	458245	458246		
Sample Reference				BH204	BH204	BH204		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				1.00	3.00	3.60		
Date Sampled				23/06/2015	23/06/2015	23/06/2015		
Time Taken				1100	1120	1150		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		

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Analytical Report Number: 15-74176

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458244	458245	458246		
Sample Reference				BH204	BH204	BH204		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				1.00	3.00	3.60		
Date Sampled				23/06/2015	23/06/2015	23/06/2015		
Time Taken				1100	1120	1150		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2		
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Naphthalene	mg/kg	0.05	MCERTS	0.31	0.49	0.55		
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Methylnaphthalene	mg/kg	0.1	NONE	0.7	0.5	0.5		
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Acenaphthylene	mg/kg	0.1	MCERTS	0.37	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Dibenzofuran	mg/kg	0.2	MCERTS	0.5	< 0.2	< 0.2		
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Fluorene	mg/kg	0.1	MCERTS	0.45	< 0.10	< 0.10		
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Phenanthrene	mg/kg	0.1	MCERTS	1.6	0.45	0.54		
Anthracene	mg/kg	0.1	MCERTS	0.61	0.12	0.16		
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Fluoranthene	mg/kg	0.1	MCERTS	2.0	0.63	0.85		
Pyrene	mg/kg	0.1	MCERTS	1.5	0.50	0.71		
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	1.0	0.37	0.53		
Chrysene	mg/kg	0.05	MCERTS	0.81	0.36	0.47		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.88	0.62	0.79		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.41	0.18	0.35		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.67	0.46	0.58		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.38	0.32	0.45		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.43	0.39	0.57		

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Analytical Report Number: 15-74176
Project / Site name: London Paramount Entertainment Resort
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

"The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

Any material greater than 16mm is considered as Bulk sample and reported separately, asbestos content (if any) is not included in the final Quantitative analysis. The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.
Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
458244	BH204	1.00	128	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**
458245	BH204	3.00	94	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**
458246	BH204	3.60	106	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**

Opinions and interpretations expressed herein are outside the scope of UKAS accreditatior

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Analytical Report Number : 15-74176

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
458244	BH204	None Supplied	1.00	Beige sandy loam with gravel.
458245	BH204	None Supplied	3.00	Light grey clay and loam with gravel.
458246	BH204	None Supplied	3.60	Light grey clay and loam with gravel.

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Analytical Report Number : 15-74176

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification	The analysis was carried out using documented in-house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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Analytical Report Number : 15-74176

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74166

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	19/06/2015
Your job number:	30766	**Samples instructed on:**	24/06/2015
Your order number:		**Analysis completed by:**	30/06/2015
Report Issue Number:	1	**Report issued on:**	30/06/2015
Samples Analysed:	1 soil sample		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74166

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458162				
Sample Reference				BH704				
Sample Number				None Supplied				
Depth (m)				1.80				
Date Sampled				18/06/2015				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	12				
Total mass of sample received	kg	0.001	NONE	2.0				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.3				
Electrical Conductivity	µS/cm	10	NONE	130				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	500				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.037				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	37				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.019				
Sulphide	mg/kg	1	MCERTS	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	15				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5				
Organic Matter	%	0.1	MCERTS	0.9				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	3.8				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Analytical Report Number: 15-74166

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458162				
Sample Reference				BH704				
Sample Number				None Supplied				
Depth (m)				1.80				
Date Sampled				18/06/2015				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	13000				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	1.4				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.6				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	57				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7				
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	6.8				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	22000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	7.8				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	260				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	370				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	41				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	35				
Calcium (aqua regia extractable)	mg/kg	20	NONE	25000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	2800				
Potassium (aqua regia extractable)	mg/kg	20	NONE	2100				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	3.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

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Analytical Report Number: 15-74166

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458162				
Sample Reference				BH704				
Sample Number				None Supplied				
Depth (m)				1.80				
Date Sampled				18/06/2015				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74166

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				458162				
Sample Reference				BH704				
Sample Number				None Supplied				
Depth (m)				1.80				
Date Sampled				18/06/2015				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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Analytical Report Number : 15-74166

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
458162	BH704	None Supplied	1.80	Light brown clay and sand.

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Analytical Report Number : 15-74166

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74166

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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i2 Job Number
15-74166_1 SD

Sample Deviation Report

Sample ID		BH704
Other ID		
Sample Type		S
Job Number		15-74166
Sample Number		458162
Deviation Code		c
Test Name	**Method no**	
Sulphide in soil	L010-PL	c

Key: a - No sampling date b - Incorrect container
c - Holding time d - Headspace e - Temperature

Emma Leivers
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Analytical Report Number : 15-74029

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	17/06/2015
Your job number:	30766	**Samples instructed on:**	19/06/2015
Your order number:		**Analysis completed by:**	26/06/2015
Report Issue Number:	1	**Report issued on:**	26/06/2015
Samples Analysed:	1 soil sample		

Signed: CC Stone

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74029

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457390				
Sample Reference				BH705				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				17/06/2015				
Time Taken				0955				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	12				
Total mass of sample received	kg	0.001	NONE	2.0				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.2				
Electrical Conductivity	µS/cm	10	NONE	90				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	430				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.030				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	30				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.015				
Sulphide	mg/kg	1	MCERTS	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	3.3				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5				
Organic Matter	%	0.1	MCERTS	< 0.1				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	0.28				
Pyrene	mg/kg	0.1	MCERTS	0.24				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.15				
Chrysene	mg/kg	0.05	MCERTS	0.16				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Analytical Report Number: 15-74029

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457390				
Sample Reference				BH705				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				17/06/2015				
Time Taken				0955				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	9300				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.0				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	50				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7				
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	8.7				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	22000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	7.7				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	300				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	750				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	34				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	32				
Calcium (aqua regia extractable)	mg/kg	20	NONE	63000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3800				
Potassium (aqua regia extractable)	mg/kg	20	NONE	2400				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

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Analytical Report Number: 15-74029

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457390				
Sample Reference				BH705				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				17/06/2015				
Time Taken				0955				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74029

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457390				
Sample Reference				BH705				
Sample Number				None Supplied				
Depth (m)				1.00				
Date Sampled				17/06/2015				
Time Taken				0955				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	0.28				
Pyrene	mg/kg	0.1	MCERTS	0.24				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.15				
Chrysene	mg/kg	0.05	MCERTS	0.16				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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Analytical Report Number : 15-74029

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
457390	BH705	None Supplied	1.00	Light brown sand.

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Analytical Report Number : 15-74029

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74029

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74028

Replaces Analytical Report Number : 15-74028, issue no. 1

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	11/06/2015
Your job number:	30766	**Samples instructed on:**	19/06/2015
Your order number:		**Analysis completed by:**	29/06/2015
Report Issue Number:	2	**Report issued on:**	29/06/2015
Samples Analysed:	1 soil sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74028

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457389				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				10.50				
Date Sampled				11/06/2015				
Time Taken				1030				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	46				
Total mass of sample received	kg	0.001	NONE	2.0				
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile				
Asbestos in Soil	Type	N/A	ISO 17025	Detected				
Asbestos Quantification	%	0.001	ISO 17025	< 0.001				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.4				
Electrical Conductivity	µS/cm	10	NONE	3200				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	5300				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	4.5				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	4500				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	2.2				
Sulphide	mg/kg	1	MCERTS	620				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2500				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	170				
Organic Matter	%	0.1	MCERTS	6.3				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	0.16				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	0.38				
Pyrene	mg/kg	0.1	MCERTS	0.37				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.24				
Chrysene	mg/kg	0.05	MCERTS	0.24				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.24				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.17				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.20				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	2.0				

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Analytical Report Number: 15-74028

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457389				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				10.50				
Date Sampled				11/06/2015				
Time Taken				1030				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	17000				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	47				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2				
Boron (water soluble)	mg/kg	0.2	MCERTS	6.0				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	35				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	41000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	38				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	220				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.4				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	29				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	600				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	62				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	86				
Calcium (aqua regia extractable)	mg/kg	20	NONE	30000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	7600				
Potassium (aqua regia extractable)	mg/kg	20	NONE	5600				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	6.9				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	15				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	22				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	58				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	110				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	12				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	180				

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Analytical Report Number: 15-74028

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457389				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				10.50				
Date Sampled				11/06/2015				
Time Taken				1030				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74028

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457389				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				10.50				
Date Sampled				11/06/2015				
Time Taken				1030				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	0.16				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	0.38				
Pyrene	mg/kg	0.1	MCERTS	0.37				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.24				
Chrysene	mg/kg	0.05	MCERTS	0.24				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.24				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.17				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.20				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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Analytical Report Number: 15-74028
Project / Site name: London Paramount Entertainment Resort
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

"The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

Any material greater than 16mm is considered as Bulk sample and reported separately, asbestos content (if any) is not included in the final Quantitative analysis. The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.
Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
457389	BH202	10.50	101	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**

Opinions and interpretations expressed herein are outside the scope of UKAS accreditatior

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Analytical Report Number : 15-74028

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
457389	BH202	None Supplied	10.50	Light grey clay and loam with gravel.

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Analytical Report Number : 15-74028

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification	The analysis was carried out using documented in-house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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Analytical Report Number : 15-74028

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-74028

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	11/06/2015
Your job number:	30766	**Samples instructed on:**	19/06/2015
Your order number:		**Analysis completed by:**	26/06/2015
Report Issue Number:	1	**Report issued on:**	26/06/2015
Samples Analysed:	1 soil sample		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-74028

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457389				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				10.50				
Date Sampled				11/06/2015				
Time Taken				1030				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	46				
Total mass of sample received	kg	0.001	NONE	2.0				
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Amosite- Loose fibres				
Asbestos in Soil	Type	N/A	ISO 17025	Detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.4				
Electrical Conductivity	µS/cm	10	NONE	3200				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	5300				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	4.5				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	4500				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	2.2				
Sulphide	mg/kg	1	MCERTS	620				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2500				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	170				
Organic Matter	%	0.1	MCERTS	6.3				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	0.16				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	0.38				
Pyrene	mg/kg	0.1	MCERTS	0.37				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.24				
Chrysene	mg/kg	0.05	MCERTS	0.24				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.24				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.17				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.20				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	2.0				

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Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457389				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				10.50				
Date Sampled				11/06/2015				
Time Taken				1030				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	17000				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	47				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2				
Boron (water soluble)	mg/kg	0.2	MCERTS	6.0				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	35				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	41000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	38				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	220				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.4				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	29				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	600				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	62				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	86				
Calcium (aqua regia extractable)	mg/kg	20	NONE	30000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	7600				
Potassium (aqua regia extractable)	mg/kg	20	NONE	5600				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	6.9				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	15				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	22				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	58				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	110				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	12				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	180				

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Analytical Report Number: 15-74028

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457389				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				10.50				
Date Sampled				11/06/2015				
Time Taken				1030				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457389				
Sample Reference				BH202				
Sample Number				None Supplied				
Depth (m)				10.50				
Date Sampled				11/06/2015				
Time Taken				1030				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	0.16				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	0.38				
Pyrene	mg/kg	0.1	MCERTS	0.37				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.24				
Chrysene	mg/kg	0.05	MCERTS	0.24				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.24				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.17				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.20				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
457389	BH202	None Supplied	10.50	Light grey clay and loam with gravel.

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Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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The results included within the report are representative of the samples submitted for analysis.

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Analytical Report Number : 15-74027

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	17/06/2015
Your job number:	30766	**Samples instructed on:**	19/06/2015
Your order number:		**Analysis completed by:**	26/06/2015
Report Issue Number:	1	**Report issued on:**	26/06/2015
Samples Analysed:	1 soil sample		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-74027

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457388				
Sample Reference				BH704				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				17/06/2015				
Time Taken				1255				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	12				
Total mass of sample received	kg	0.001	NONE	2.0				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	7.3				
Electrical Conductivity	µS/cm	10	NONE	110				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	MCERTS	670				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.027				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	27				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.014				
Sulphide	mg/kg	1	MCERTS	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	7.5				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5				
Organic Matter	%	0.1	MCERTS	0.9				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	6.5				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	6.5				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Analytical Report Number: 15-74027

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457388				
Sample Reference				BH704				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				17/06/2015				
Time Taken				1255				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	13000				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	73				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.8				
Boron (water soluble)	mg/kg	0.2	MCERTS	1.5				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	35				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	26000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	39				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	250				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	900				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	49				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	58				
Calcium (aqua regia extractable)	mg/kg	20	NONE	17000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3200				
Potassium (aqua regia extractable)	mg/kg	20	NONE	2700				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

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Analytical Report Number: 15-74027

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457388				
Sample Reference				BH704				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				17/06/2015				
Time Taken				1255				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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Analytical Report Number: 15-74027

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				457388				
Sample Reference				BH704				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				17/06/2015				
Time Taken				1255				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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Analytical Report Number : 15-74027

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
457388	BH704	None Supplied	0.50	Brown loam and clay with gravel.

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Analytical Report Number : 15-74027

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-74027

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-73713

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	16/06/2015
Your job number:	30766	**Samples instructed on:**	17/06/2015
Your order number:		**Analysis completed by:**	26/06/2015
Report Issue Number:	1	**Report issued on:**	26/06/2015
Samples Analysed:	1 wac multi sample		

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Waste Acceptance Criteria Analytical Results

Report No:	**15-73713**						
					Client:	**GEOENG**	
Location	**London Paramount Entertainment Resort**						
Lab Reference (Sample Number)	455513				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	15/06/2015				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH706						
Depth (m)	2.80						
Solid Waste Analysis							
TOC (%)**	< 0.1				3%	5%	6%
Loss on Ignition (%) **	2.5				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	8.3				--	>6	--
Acid Neutralisation Capacity (mol / kg)	9.0				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.034	0.018		0.21	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0072	< 0.0010		0.015	0.5	10	70
Copper *	0.0024	< 0.0030		0.021	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	< 0.0030	< 0.0030		< 0.020	0.5	10	30
Nickel *	0.0036	< 0.0010		0.0092	0.4	10	40
Lead *	< 0.0050	< 0.0050		0.036	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0073	0.0019		0.027	4	50	200
Chloride *	< 4.0	< 4.0		< 15	800	4000	25000
Fluoride	0.16	0.14		1.4	10	150	500
Sulphate *	2.2	0.45		6.9	1000	20000	50000
TDS	60	40		430	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	1.6	1.8		18	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.4						
Dry Matter (%)	93						
Moisture (%)	7.5						
Stage 1							
Volume Eluate L2 (litres)	0.34						
Filtered Eluate VE1 (litres)	0.24						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepencies with current legislation

*= UKAS accredited (liquid eluate analysis only)
** = MCERTS accrediited

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Analytical Report Number : 15-73713

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
455513	BH706	None Supplied	2.80	Light brown loam and clay.

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Analytical Report Number : 15-73713

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	NONE
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L047-PL	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
Mineral Oil in Soil	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
PCB's by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Seciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L004-PL	W	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS

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Analytical Report Number : 15-73713

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
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Analytical Report Number : 15-73711

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	16/06/2015
Your job number:	30766	**Samples instructed on:**	17/06/2015
Your order number:		**Analysis completed by:**	23/06/2015
Report Issue Number:	1	**Report issued on:**	23/06/2015
Samples Analysed:	1 soil sample		

Signed: CC Stone

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-73711

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				455511				
Sample Reference				BH706				
Sample Number				None Supplied				
Depth (m)				2.00				
Date Sampled				15/06/2015				
Time Taken				1545				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	8.2				
Total mass of sample received	kg	0.001	NONE	1.2				
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
General Inorganics								
pH	pH Units	N/A	MCERTS	8.5				
Electrical Conductivity	µS/cm	10	NONE	110				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Complex Cyanide	mg/kg	1	NONE	< 1				
Free Cyanide	mg/kg	1	NONE	< 1				
Total Sulphate as SO_4	mg/kg	50	ISO 17025	680				
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.011				
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	11				
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.0053				
Sulphide	mg/kg	1	MCERTS	< 1.0				
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	23				
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5				
Organic Matter	%	0.1	MCERTS	< 0.1				
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0				
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20				
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0				
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6				

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Analytical Report Number: 15-73711

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				455511				
Sample Reference				BH706				
Sample Number				None Supplied				
Depth (m)				2.00				
Date Sampled				15/06/2015				
Time Taken				1545				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	15000				
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	51				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7				
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	42				
Iron (aqua regia extractable)	mg/kg	40	MCERTS	30000				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	9.4				
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	340				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20				
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	950				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	38				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	39				
Calcium (aqua regia extractable)	mg/kg	20	NONE	79000				
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	4700				
Potassium (aqua regia extractable)	mg/kg	20	NONE	2600				
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

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Analytical Report Number: 15-73711

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				455511				
Sample Reference				BH706				
Sample Number				None Supplied				
Depth (m)				2.00				
Date Sampled				15/06/2015				
Time Taken				1545				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	ISO 17025	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0				
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0				
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	NONE	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	MCERTS	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	NONE	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	NONE	< 1.0				
4-Chlorotoluene	µg/kg	1	NONE	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	NONE	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	NONE	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0				

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-73711

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				455511				
Sample Reference				BH706				
Sample Number				None Supplied				
Depth (m)				2.00				
Date Sampled				15/06/2015				
Time Taken				1545				
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1				
Phenol	mg/kg	0.2	ISO 17025	< 0.2				
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1				
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2				
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1				
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2				
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1				
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3				
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05				
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3				
4-Methylphenol	mg/kg	0.2	NONE	< 0.2				
Isophorone	mg/kg	0.2	MCERTS	< 0.2				
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3				
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3				
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3				
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3				
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1				
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1				
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1				
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2				
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1				
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1				
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1				
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2				
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2				
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3				
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2				
Fluorene	mg/kg	0.1	MCERTS	< 0.10				
Azobenzene	mg/kg	0.3	MCERTS	< 0.3				
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2				
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3				
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Carbazole	mg/kg	0.3	MCERTS	< 0.3				
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2				
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3				
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Pyrene	mg/kg	0.1	MCERTS	< 0.10				
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3				
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10				
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

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Analytical Report Number : 15-73711

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
455511	BH706	None Supplied	2.00	Light brown loam and sand.

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Analytical Report Number : 15-73711

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-73711

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-73643

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	12/06/2015
Your job number:	30766	**Samples instructed on:**	15/06/2015
Your order number:		**Analysis completed by:**	25/06/2015
Report Issue Number:	1	**Report issued on:**	25/06/2015
Samples Analysed:	1 wac multi sample		

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Waste Acceptance Criteria Analytical Results

Report No:	**15-73643**						
					Client:	**GEOENG**	
Location	**London Paramount Entertainment Resort**						
Lab Reference (Sample Number)	455161				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	12/06/2015				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH707						
Depth (m)	3.85-3.95						
Solid Waste Analysis							
TOC (%)**	2.0				3%	5%	6%
Loss on Ignition (%) **	6.1				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	8.0				--	>6	--
Acid Neutralisation Capacity (mol / kg)	10				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.010	< 0.010		0.051	0.5	2	25
Barium *	0.13	0.099		1.0	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	< 0.0010	< 0.0010		< 0.0050	0.5	10	70
Copper *	0.0030	< 0.0030		0.022	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.020	0.0080		0.090	0.5	10	30
Nickel *	0.0018	0.0018		0.018	0.4	10	40
Lead *	< 0.0050	< 0.0050		0.023	0.5	10	50
Antimony *	< 0.0050	< 0.0050		0.039	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0029	0.0022		0.023	4	50	200
Chloride *	5.7	< 4.0		< 15	800	4000	25000
Fluoride	1.1	1.0		10	10	150	500
Sulphate *	500	140		1700	1000	20000	50000
TDS	590	230		2600	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	13	7.1		76	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.2						
Dry Matter (%)	76						
Moisture (%)	24						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.15						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepencies with current legislation

*= UKAS accredited (liquid eluate analysis only)
** = MCERTS accrediited

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Analytical Report Number : 15-73643

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
455161	BH707	None Supplied	3.85-3.95	Brown clay and gravel with chalk.

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Analytical Report Number : 15-73643

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	NONE
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L047-PL	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
Mineral Oil in Soil	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
PCB's by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Seciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L004-PL	W	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS

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Analytical Report Number : 15-73643

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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The results included within the report are representative of the samples submitted for analysis.

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Analytical Report Number : 15-73642

Replaces Analytical Report Number : 15-73642, issue no. 1

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	12/06/2015
Your job number:	30766	**Samples instructed on:**	15/06/2015
Your order number:		**Analysis completed by:**	24/06/2015
Report Issue Number:	2	**Report issued on:**	24/06/2015
Samples Analysed:	2 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-73642

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				455159	455160			
Sample Reference				BH707	BH706			
Sample Number				None Supplied	None Supplied			
Depth (m)				2.35-2.45	0.50			
Date Sampled				12/06/2015	11/06/2015			
Time Taken				0905	1520			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	16	10			
Total mass of sample received	kg	0.001	NONE	1.2	1.8			
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-			
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected			
Asbestos Quantification	%	0.001	ISO 17025	< 0.001	-			
General Inorganics								
pH	pH Units	N/A	MCERTS	7.6	7.9			
Electrical Conductivity	µS/cm	10	NONE	590	100			
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1			
Complex Cyanide	mg/kg	1	NONE	< 1	< 1			
Free Cyanide	mg/kg	1	NONE	< 1	< 1			
Total Sulphate as SO_4	mg/kg	50	ISO 17025	2400	480			
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	1.6	0.018			
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	1600	18			
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.82	0.0091			
Sulphide	mg/kg	1	MCERTS	6.1	< 1.0			
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	20	21			
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5			
Organic Matter	%	0.1	MCERTS	1.9	1.0			
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0			
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20			
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0			
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	< 1.6			

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Analytical Report Number: 15-73642

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				455159	455160			
Sample Reference				BH707	BH706			
Sample Number				None Supplied	None Supplied			
Depth (m)				2.35-2.45	0.50			
Date Sampled				12/06/2015	11/06/2015			
Time Taken				0905	1520			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	13000	17000			
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0			
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.7	8.6			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	83	80			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7	0.7			
Boron (water soluble)	mg/kg	0.2	MCERTS	3.0	1.3			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	22			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	14			
Iron (aqua regia extractable)	mg/kg	40	MCERTS	25000	30000			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	42	21			
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	260	600			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.3	0.3			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	18			
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	680	1300			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	35	35			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	51	52			
Calcium (aqua regia extractable)	mg/kg	20	NONE	130000	24000			
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	3700	3200			
Potassium (aqua regia extractable)	mg/kg	20	NONE	2800	2800			
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	8.4	2.7			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	31	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	40	< 10			

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Analytical Report Number: 15-73642

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				455159	455160			
Sample Reference				BH707	BH706			
Sample Number				None Supplied	None Supplied			
Depth (m)				2.35-2.45	0.50			
Date Sampled				12/06/2015	11/06/2015			
Time Taken				0905	1520			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			

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Analytical Report Number: 15-73642

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				455159	455160			
Sample Reference				BH707	BH706			
Sample Number				None Supplied	None Supplied			
Depth (m)				2.35-2.45	0.50			
Date Sampled				12/06/2015	11/06/2015			
Time Taken				0905	1520			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2			
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1			
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			

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Analytical Report Number: 15-73642
Project / Site name: London Paramount Entertainment Resort
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

"The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

Any material greater than 16mm is considered as Bulk sample and reported separately, asbestos content (if any) is not included in the final Quantitative analysis. The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.
Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
455159	BH707	2.35-2.45	129	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**

Opinions and interpretations expressed herein are outside the scope of UKAS accreditatior

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Analytical Report Number : 15-73642

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
455159	BH707	None Supplied	2.35-2.45	Brown clay and gravel with chalk.
455160	BH706	None Supplied	0.50	Light brown clay and sand.

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Analytical Report Number : 15-73642

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification	The analysis was carried out using documented in-house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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Analytical Report Number : 15-73642

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a diazonium salt which forms chromophore which is measured by spectrophotometry.	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-73575

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	11/06/2015
Your job number:	30766	**Samples instructed on:**	12/06/2015
Your order number:		**Analysis completed by:**	18/06/2015
Report Issue Number:	1	**Report issued on:**	18/06/2015
Samples Analysed:	1 wac multi sample		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Waste Acceptance Criteria Analytical Results

Report No:	**15-73575**						
					Client:	**GEOENG**	
Location	**London Paramount Entertainment Resort**						
Lab Reference (Sample Number)	454788				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	11/06/2015				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH708						
Depth (m)	2.40-2.50						
Solid Waste Analysis							
TOC (%)**	1.0				3%	5%	6%
Loss on Ignition (%) **	3.9				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg)	17				500	--	--
Total PAH (WAC-17) (mg/kg)	2.7				100	--	--
pH (units)**	7.7				--	>6	--
Acid Neutralisation Capacity (mol / kg)	6.7				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic *	< 0.010	< 0.010		0.080	0.5	2	25
Barium *	0.077	0.058		0.60	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	< 0.0010	0.0030		0.027	0.5	10	70
Copper *	0.0030	0.0043		0.041	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	0.023	0.0082		0.099	0.5	10	30
Nickel *	0.0015	0.0022		0.022	0.4	10	40
Lead *	< 0.0050	< 0.0050		0.039	0.5	10	50
Antimony *	< 0.0050	< 0.0050		0.023	0.06	0.7	5
Selenium *	< 0.010	< 0.010		0.062	0.1	0.5	7
Zinc *	0.0020	0.0106		0.096	4	50	200
Chloride *	5.6	< 4.0		< 15	800	4000	25000
Fluoride	0.71	0.56		5.7	10	150	500
Sulphate *	170	32		490	1000	20000	50000
TDS	220	80		960	4000	60000	100000
Phenol Index (Monhydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	12	5.7		65	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2.0						
Dry Matter (%)	82						
Moisture (%)	18						
Stage 1							
Volume Eluate L2 (litres)	0.32						
Filtered Eluate VE1 (litres)	0.21						

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepencies with current legislation

*= UKAS accredited (liquid eluate analysis only)
** = MCERTS accrediited

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Analytical Report Number : 15-73575

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
454788	BH708	None Supplied	2.40-2.50	Brown clay and loam with gravel.

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Analytical Report Number : 15-73575

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	NONE
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L047-PL	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
Mineral Oil in Soil	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
PCB's by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Seciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L004-PL	W	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS

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Analytical Report Number : 15-73575

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
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Analytical Report Number : 15-73574

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	11/06/2015
Your job number:	30766	**Samples instructed on:**	12/06/2015
Your order number:		**Analysis completed by:**	18/06/2015
Report Issue Number:	1	**Report issued on:**	18/06/2015
Samples Analysed:	3 soil samples		

Signed:

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Colin Everett
Senior Analyst
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Analytical Report Number: 15-73574

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				454785	454786	454787		
Sample Reference				BH703	BH708	BH708		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				1.90-2.10	1.80-2.00	3.50-3.70		
Date Sampled				10/06/2015	11/06/2015	11/06/2015		
Time Taken				1555	1103	1150		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	14	17	15		
Total mass of sample received	kg	0.001	NONE	1.9	1.6	2.0		
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected		
General Inorganics								
pH	pH Units	N/A	MCERTS	6.4	6.7	7.5		
Electrical Conductivity	µS/cm	10	NONE	100	640	320		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1		
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1		
Total Sulphate as SO_4	mg/kg	50	ISO 17025	720	1100	860		
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.11	0.75	0.24		
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	110	750	240		
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.053	0.37	0.12		
Sulphide	mg/kg	1	MCERTS	< 1.0	7.0	< 1.0		
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	4.0	26	24		
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	7.7	< 0.5		
Organic Matter	%	0.1	MCERTS	1.5	2.2	< 0.1		
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	2.9	< 2.0		
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20		
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0		
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05		
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	< 1.6	< 1.6		

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Analytical Report Number: 15-73574

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				454785	454786	454787		
Sample Reference				BH703	BH708	BH708		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				1.90-2.10	1.80-2.00	3.50-3.70		
Date Sampled				10/06/2015	11/06/2015	11/06/2015		
Time Taken				1555	1103	1150		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	11000	12000	8000		
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	9.3	7.4		
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	55	76		
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7	0.7	0.7		
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7	2.3	0.3		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	24	31		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	15	5.1		
Iron (aqua regia extractable)	mg/kg	40	MCERTS	24000	24000	25000		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	150	21	7.3		
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	260	270	78		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.3	0.4	< 0.3		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	19	15		
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	410	590	260		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	35	38	38		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	46	53	35		
Calcium (aqua regia extractable)	mg/kg	20	NONE	3900	64000	5200		
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	2100	3000	2600		
Potassium (aqua regia extractable)	mg/kg	20	NONE	2000	2500	3100		
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10		

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Analytical Report Number: 15-73574

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				454785	454786	454787		
Sample Reference				BH703	BH708	BH708		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				1.90-2.10	1.80-2.00	3.50-3.70		
Date Sampled				10/06/2015	11/06/2015	11/06/2015		
Time Taken				1555	1103	1150		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		

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Analytical Report Number: 15-73574

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				454785	454786	454787		
Sample Reference				BH703	BH708	BH708		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				1.90-2.10	1.80-2.00	3.50-3.70		
Date Sampled				10/06/2015	11/06/2015	11/06/2015		
Time Taken				1555	1103	1150		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2		
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		

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Analytical Report Number : 15-73574

Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
454785	BH703	None Supplied	1.90-2.10	Brown loam and clay with gravel.
454786	BH708	None Supplied	1.80-2.00	Grey clay and loam with gravel.
454787	BH708	None Supplied	3.50-3.70	Light brown clay and sand.

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Analytical Report Number : 15-73574

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE

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Analytical Report Number : 15-73574

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-73390

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	10/06/2015
Your job number:	30766	**Samples instructed on:**	11/06/2015
Your order number:		**Analysis completed by:**	18/06/2015
Report Issue Number:	1	**Report issued on:**	18/06/2015
Samples Analysed:	7 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-73390

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				453665	453666	453667	453668	453669
Sample Reference				BH202	BH202	BH202	BH202	BH703
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	2.50	6.00	8.10	0.50
Date Sampled				09/06/2015	09/06/2015	10/06/2015	10/06/2015	09/06/2015
Time Taken				1300	1655	0910	1000	1510
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	52	33	40	48	10
Total mass of sample received	kg	0.001	NONE	1.5	1.1	1.4	1.6	1.7
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
General Inorganics								
pH	pH Units	N/A	MCERTS	7.2	10.6	12.3	10.4	7.0
Electrical Conductivity	µS/cm	10	NONE	2000	1900	14000	10000	220
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO_4	mg/kg	50	ISO 17025	60000	52000	72000	31000	810
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	7.1	6.2	17	13	0.11
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	7100	6200	17000	13000	110
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	3.5	3.1	8.3	6.7	0.054
Sulphide	mg/kg	1	MCERTS	< 1.0	10	48	24	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	50	100	6500	5600	31
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5	31	< 0.5	< 0.5
Organic Matter	%	0.1	MCERTS	0.3	0.6	0.6	1.3	0.3
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	14	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO_3	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20	< 20	< 20	< 20
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	14	< 5.0	< 5.0	< 5.0
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.26	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.28	0.95	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.28	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.34	0.80	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.28	0.68	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.23	0.65	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.14	0.40	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.35	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.40	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.16	0.43	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.28	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	< 1.6	5.7	< 1.6	< 1.6

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-73390

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				453665	453666	453667	453668	453669
Sample Reference				BH202	BH202	BH202	BH202	BH703
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	2.50	6.00	8.10	0.50
Date Sampled				09/06/2015	09/06/2015	10/06/2015	10/06/2015	09/06/2015
Time Taken				1300	1655	0910	1000	1510
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	14000	16000	12000	27000	8500
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.8	2.8	4.0	3.4	1.1
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.3	16	110	19	8.6
Barium (aqua regia extractable)	mg/kg	1	MCERTS	120	110	40	260	56
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7	0.8	0.3	2.0	0.6
Boron (water soluble)	mg/kg	0.2	MCERTS	8.1	3.7	1.3	13	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.9	4.2	9.4	8.5	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	31	23	26	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	47	52	89	14
Iron (aqua regia extractable)	mg/kg	40	MCERTS	16000	13000	16000	13000	23000
Lead (aqua regia extractable)	mg/kg	1	MCERTS	74	140	660	280	16
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	240	250	170	270	310
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	1.0	0.4	2.3	1.6	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	16	14	38	19
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	1000	730	400	680	410
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	9.5	5.6	9.8	9.8	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	100	39	53	120	34
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	56	140	210	220	36
Calcium (aqua regia extractable)	mg/kg	20	NONE	450000	450000	460000	400000	36000
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	5100	4500	2800	19000	2900
Potassium (aqua regia extractable)	mg/kg	20	NONE	3600	7700	29000	33000	2000
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	17	< 8.0	< 8.0	12	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	17	< 10	< 10	12	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

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Analytical Report Number: 15-73390

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				453665	453666	453667	453668	453669
Sample Reference				BH202	BH202	BH202	BH202	BH703
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	2.50	6.00	8.10	0.50
Date Sampled				09/06/2015	09/06/2015	10/06/2015	10/06/2015	09/06/2015
Time Taken				1300	1655	0910	1000	1510
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 15-73390

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				453665	453666	453667	453668	453669
Sample Reference				BH202	BH202	BH202	BH202	BH703
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	2.50	6.00	8.10	0.50
Date Sampled				09/06/2015	09/06/2015	10/06/2015	10/06/2015	09/06/2015
Time Taken				1300	1655	0910	1000	1510
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.26	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.28	0.95	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.28	< 0.10	< 0.10
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.34	0.80	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.28	0.68	< 0.10	< 0.10
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.23	0.65	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.14	0.40	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.35	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.40	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.16	0.43	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.28	< 0.05	< 0.05

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Analytical Report Number: 15-73390

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				453670	453671			
Sample Reference				BH707	BH708			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	0.50-0.70			
Date Sampled				10/06/2015	10/06/2015			
Time Taken				1214	1214			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	13	5.5			
Total mass of sample received	kg	0.001	NONE	1.6	1.7			
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
General Inorganics								
pH	pH Units	N/A	MCERTS	7.6	7.5			
Electrical Conductivity	µS/cm	10	NONE	200	720			
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1			
Complex Cyanide	mg/kg	1	NONE	< 1	< 1			
Free Cyanide	mg/kg	1	NONE	< 1	< 1			
Total Sulphate as SO_4	mg/kg	50	ISO 17025	850	1400			
Water Soluble Sulphate (Soil Equivalent)	g/l	0.0025	MCERTS	0.11	0.89			
Water Soluble Sulphate as SO_4 (2:1)	mg/kg	2.5	MCERTS	110	890			
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent)	g/l	0.00125	MCERTS	0.054	0.44			
Sulphide	mg/kg	1	MCERTS	3.3	1.8			
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	14	14			
Ammoniacal Nitrogen as N	mg/kg	0.5	MCERTS	< 0.5	< 0.5			
Organic Matter	%	0.1	MCERTS	1.3	1.4			
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0	< 2.0			
Water Soluble Nitrate (2:1) as NO_3	mg/kg	10	NONE	< 10	< 10			
Water Soluble Nitrite (2:1) as N	µg/kg	20	NONE	< 20	< 20			
Total Oxidised Nitrogen (TON)	mg/kg	5	NONE	< 5.0	< 5.0			
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.16			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	0.12			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Phenanthrene	mg/kg	0.1	MCERTS	0.34	1.5			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.33			
Fluoranthene	mg/kg	0.1	MCERTS	0.77	1.5			
Pyrene	mg/kg	0.1	MCERTS	0.70	1.2			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.48	0.66			
Chrysene	mg/kg	0.05	MCERTS	0.49	0.63			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.49	0.38			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.28	0.49			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.42	0.41			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.29	0.28			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.40	0.42			
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05			
Total PAH								
Total WAC-17 PAHs	mg/kg	1.6	NONE	4.7	8.1			

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Analytical Report Number: 15-73390

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				453670	453671			
Sample Reference				BH707	BH708			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	0.50-0.70			
Date Sampled				10/06/2015	10/06/2015			
Time Taken				1214	1214			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (aqua regia extractable)	mg/kg	30	NONE	6900	7800			
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	1.4	1.2			
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.5	7.6			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	91	47			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.6	0.7			
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	21			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	16	13			
Iron (aqua regia extractable)	mg/kg	40	MCERTS	17000	20000			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	22	17			
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	260	230			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.3	0.6			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	19			
Phosphorus (aqua regia extractable)	mg/kg	20	NONE	440	880			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	28	31			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	41	38			
Calcium (aqua regia extractable)	mg/kg	20	NONE	93000	45000			
Magnesium (aqua regia extractable)	mg/kg	20	ISO 17025	2800	2200			
Potassium (aqua regia extractable)	mg/kg	20	NONE	1700	1800			
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10			

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Analytical Report Number: 15-73390

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				453670	453671			
Sample Reference				BH707	BH708			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	0.50-0.70			
Date Sampled				10/06/2015	10/06/2015			
Time Taken				1214	1214			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chloroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Vinyl Chloride	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trichlorofluoromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,1-Dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
2,2-Dichloropropane	µg/kg	1	NONE	< 1.0	< 1.0			
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1-Dichloropropene	µg/kg	1	NONE	< 1.0	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0			
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Bromodichloromethane	µg/kg	1	NONE	< 1.0	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Tetrachloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	NONE	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Tribromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0			
Isopropylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
2-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
4-Chlorotoluene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
tert-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
sec-Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Butylbenzene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Hexachlorobutadiene	µg/kg	1	NONE	< 1.0	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	NONE	< 1.0	< 1.0			

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Analytical Report Number: 15-73390

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				453670	453671			
Sample Reference				BH707	BH708			
Sample Number				None Supplied	None Supplied			
Depth (m)				1.00	0.50-0.70			
Date Sampled				10/06/2015	10/06/2015			
Time Taken				1214	1214			
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2			
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2			
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.16			
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1			
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	0.12			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Phenanthrene	mg/kg	0.1	MCERTS	0.34	1.5			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.33			
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Fluoranthene	mg/kg	0.1	MCERTS	0.77	1.5			
Pyrene	mg/kg	0.1	MCERTS	0.70	1.2			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	0.48	0.66			
Chrysene	mg/kg	0.05	MCERTS	0.49	0.63			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.49	0.38			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.28	0.49			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.42	0.41			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	0.29	0.28			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.40	0.42			

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Project / Site name: London Paramount Entertainment Resort

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
453665	BH202	None Supplied	0.50	Beige sandy clay with gravel.
453666	BH202	None Supplied	2.50	Beige sandy clay.
453667	BH202	None Supplied	6.00	Light grey clay and sand.
453668	BH202	None Supplied	8.10	Black clay and sand with chalk.
453669	BH703	None Supplied	0.50	Light brown loam with vegetation.
453670	BH707	None Supplied	1.00	Brown loam and sand with chalk.
453671	BH708	None Supplied	0.50-0.70	Brown sandy loam with gravel and vegetation.

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Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in soil	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cations in soil by ICP-OES	Determination of cations in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of soil	Determination of electrical conductivity in soil by addition of saturated calcium sulphate followed by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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Analytical Report Number : 15-73390

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total oxidised nitrogen in soil	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton		D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Water Soluble Nitrite (2:1) as N in soil	Determination of nitrite in soil by extraction with water followed by with 4-aminobenzene sulphonamide reagent in the presence of orthophosphoric acid at pH 1.9 to form a	In-house method based on ISO:EN 26777:1993 nitrite.	L078-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-80823

Replaces Analytical Report Number : 15-80823, issue no. 1

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	19/10/2015
Your job number:	30766	**Samples instructed on:**	19/10/2015
Your order number:		**Analysis completed by:**	26/10/2015
Report Issue Number:	2	**Report issued on:**	25/11/2015
Samples Analysed:	3 water samples		

Signed:

Dr Irma Doyle
Assistant Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 15-80823

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				497122	497123	497124		
Sample Reference				WS101	WS102	WS202		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				3.88	3.96	6.02		
Date Sampled				14/10/2015	14/10/2015	14/10/2015		
Time Taken				1130	1200	1230		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.6	13.0	13.2		
Electrical Conductivity	µS/cm	10	NONE	120000	33000	51000		
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10		
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10		
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10		
Sulphate as SO_4	µg/l	45	ISO 17025	14000000	1760000	15000000		
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0		
Chloride	mg/l	0.15	ISO 17025	31000	3800	4800		
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	420000	5800	26000		
Nitrate as N	mg/l	0.01	ISO 17025	1.07	0.19	0.26		
Nitrate as NO_3	mg/l	0.05	ISO 17025	4.75	0.84	1.15		
Nitrite as N	µg/l	1	ISO 17025	21	290	860		
Nitrite as NO_2	µg/l	5	ISO 17025	69	950	2800		
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	400	140	220		
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	11	< 1.0	< 1.0		
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	1.1	0.5	1.1		
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	1000		
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2		

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Analytical Report Number: 15-80823

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				497122	497123	497124		
Sample Reference				WS101	WS102	WS202		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				3.88	3.96	6.02		
Date Sampled				14/10/2015	14/10/2015	14/10/2015		
Time Taken				1130	1200	1230		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	1.55	16.4	1.77		
Antimony (dissolved)	µg/l	0.4	ISO 17025	< 0.4	7.4	3.5		
Arsenic (dissolved)	µg/l	0.15	ISO 17025	21.4	27.3	15.4		
Barium (dissolved)	µg/l	0.06	ISO 17025	66	28	15		
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1		
Boron (dissolved)	µg/l	10	ISO 17025	850	14	34		
Cadmium (dissolved)	µg/l	0.02	ISO 17025	3.6	< 0.02	0.12		
Chromium (hexavalent)	µg/l	5	ISO 17025	< 40**	< 5.0	1600*		
Chromium (dissolved)	µg/l	0.2	ISO 17025	19	13	1300*		
Copper (dissolved)	µg/l	0.5	ISO 17025	12	67	19		
Iron (dissolved)	mg/l	0.004	ISO 17025	0.92	0.15	0.17		
Lead (dissolved)	µg/l	0.2	ISO 17025	19	26	5.2		
Manganese (dissolved)	µg/l	0.05	ISO 17025	120	4.6	4.0		
Mercury (dissolved)	µg/l	0.05	ISO 17025	1.68	< 0.05	0.81		
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	0.44	96	360		
Nickel (dissolved)	µg/l	0.5	ISO 17025	16	6.4	140		
Selenium (dissolved)	µg/l	0.6	ISO 17025	1.3	59	510		
Vanadium (dissolved)	µg/l	0.2	ISO 17025	28	68	65		
Zinc (dissolved)	µg/l	0.5	ISO 17025	19	10	< 0.5		
Calcium (dissolved)	mg/l	0.012	ISO 17025	250	10	61		
Magnesium (dissolved)	mg/l	0.005	ISO 17025	340	< 0.005	< 0.005		
Potassium (dissolved)	mg/l	0.025	ISO 17025	23000	6800	18000		
Phosphorus (total)	µg/l	20	ISO 17025	43000	32	53		
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		

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Analytical Report Number: 15-80823

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				497122	497123	497124		
Sample Reference				WS101	WS102	WS202		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				3.88	3.96	6.02		
Date Sampled				14/10/2015	14/10/2015	14/10/2015		
Time Taken				1130	1200	1230		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		

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Analytical Report Number: 15-80823

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				497122	497123	497124		
Sample Reference				WS101	WS102	WS202		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				3.88	3.96	6.02		
Date Sampled				14/10/2015	14/10/2015	14/10/2015		
Time Taken				1130	1200	1230		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02		
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		

U/S = Unsuitable Sample I/S = Insufficient Sample

**Raised LOD due to colour interference.

*Discrepancies between the total and hexavalent chromium due to method differences.

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Analytical Report Number : 15-80823

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025

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Analytical Report Number : 15-80823

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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Analytical Report Number : 15-80991

Project / Site name:	London Paramount Entertainment Resort	**Samples received on:**	21/10/2015
Your job number:	30766	**Samples instructed on:**	21/10/2015
Your order number:		**Analysis completed by:**	29/10/2015
Report Issue Number:	1	**Report issued on:**	29/10/2015
Samples Analysed:	3 water samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 15-80991

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				498036	498037	498038		
Sample Reference				WS101	WS102	WS202		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				3.88	3.97	8.09		
Date Sampled				21/10/2015	21/10/2015	21/10/2015		
Time Taken				1100	1100	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.7	13.0	13.2		
Electrical Conductivity	µS/cm	10	NONE	16000	24000	26000		
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10		
Complex Cyanide	µg/l	10	NONE	< 10	< 10	< 10		
Free Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10		
Sulphate as SO_4	µg/l	45	ISO 17025	13000000	2220000	16000000		
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0		
Chloride	mg/l	0.15	ISO 17025	33000	4100	5500		
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	460000	6300	30000		
Nitrate as N	mg/l	0.01	ISO 17025	0.88	0.14	0.24		
Nitrate as NO_3	mg/l	0.05	ISO 17025	3.92	0.63	1.04		
Nitrite as N	µg/l	1	ISO 17025	18	330	960		
Nitrite as NO_2	µg/l	5	ISO 17025	59	1100	3100		
Chemical Oxygen Demand (Total)	mg/l	2	ISO 17025	610	200	420		
BOD (Biochemical Oxygen Demand)	mg/l	1	ISO 17025	8.5	< 1.0	1.6		
Total Oxidised Nitrogen (TON)	mg/l	0.3	NONE	0.9	0.5	1.2		
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	22	970		
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Coronene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Total PAH								
Total EPA-16 PAHs	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
Total WAC-17 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2		

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Analytical Report Number: 15-80991

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				498036	498037	498038		
Sample Reference				WS101	WS102	WS202		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				3.88	3.97	8.09		
Date Sampled				21/10/2015	21/10/2015	21/10/2015		
Time Taken				1100	1100	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Aluminium (dissolved)	mg/l	0.001	ISO 17025	0.211	19.4	0.432		
Antimony (dissolved)	µg/l	0.4	ISO 17025	< 0.4	1.9	0.8		
Arsenic (dissolved)	µg/l	0.15	ISO 17025	34.4	23.6	11.0		
Barium (dissolved)	µg/l	0.06	ISO 17025	42	26	14		
Beryllium (dissolved)	µg/l	0.1	ISO 17025	0.1	< 0.1	< 0.1		
Boron (dissolved)	µg/l	10	ISO 17025	710	28	33		
Cadmium (dissolved)	µg/l	0.02	ISO 17025	3.2	0.08	0.08		
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	1600**		
Chromium (dissolved)	µg/l	0.2	ISO 17025	17	16	1200**		
Copper (dissolved)	µg/l	0.5	ISO 17025	13	64	19		
Iron (dissolved)	mg/l	0.004	ISO 17025	0.26	0.086	0.027		
Lead (dissolved)	µg/l	0.2	ISO 17025	5.9	51	1.6		
Manganese (dissolved)	µg/l	0.05	ISO 17025	110	1.1	0.45		
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	1.17	< 0.05		
Molybdenum (dissolved)	µg/l	0.05	ISO 17025	2.7	120	350		
Nickel (dissolved)	µg/l	0.5	ISO 17025	15	7.8	150		
Selenium (dissolved)	µg/l	0.6	ISO 17025	2.9	230	610		
Vanadium (dissolved)	µg/l	0.2	ISO 17025	23	76	64		
Zinc (dissolved)	µg/l	0.5	ISO 17025	8.8	9.8	< 0.5		
Calcium (dissolved)	mg/l	0.012	ISO 17025	220	7.8	27		
Magnesium (dissolved)	mg/l	0.005	ISO 17025	120	< 0.005	< 0.005		
Potassium (dissolved)	mg/l	0.025	ISO 17025	13000	5600	16000		
Phosphorus (total)	µg/l	20	ISO 17025	58000	460	26		

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Analytical Report Number: 15-80991

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				498036	498037	498038		
Sample Reference				WS101	WS102	WS202		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				3.88	3.97	8.09		
Date Sampled				21/10/2015	21/10/2015	21/10/2015		
Time Taken				1100	1100	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		

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Analytical Report Number: 15-80991

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				498036	498037	498038		
Sample Reference				WS101	WS102	WS202		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				3.88	3.97	8.09		
Date Sampled				21/10/2015	21/10/2015	21/10/2015		
Time Taken				1100	1100	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0		

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Analytical Report Number: 15-80991

Project / Site name: London Paramount Entertainment Resort

Lab Sample Number				498036	498037	498038		
Sample Reference				WS101	WS102	WS202		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				3.88	3.97	8.09		
Date Sampled				21/10/2015	21/10/2015	21/10/2015		
Time Taken				1100	1100	1100		
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	1.0		
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Hexachlorobenzene	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02		
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05		
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01		

U/S = Unsuitable Sample I/S = Insufficient Sample

**The dissolved chromium and hexavalent chromium analysis has been repeated but the results remain contrary.

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Analytical Report Number : 15-80991

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Biological oxygen demand of water	Determination of biochemical oxygen demand in water (5 days). Accredited matrices: SW, PW, GW.	In-house method based on standard method 5210B. Samples received > 24 hrs after sampling, data may not be valid and should be interpreted with care.	L086-PL	W	ISO 17025
Boron in water	Determination of boron by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
BTEX and MTBE in water	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025
Chemical Oxygen Demand in Water (Total)	Determination of total COD in water by reflux oxidation with acidified K2Cr2O7 followed by colorimetry. Accredited matrices: SW, PW, GW.	HACH DR/890 Colorimeter Procedures Manual (48470-22) (Ref 0170.2)	L065-PL	W	ISO 17025
Chloride in water	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082 B	W	ISO 17025
Complex cyanide in water	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	NONE
Electrical conductivity of water	Determination of electrical conductivity in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	NONE
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L077-PL	W	ISO 17025
pH in water	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025

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Analytical Report Number : 15-80991

Project / Site name: London Paramount Entertainment Resort

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L070-UK	W	ISO 17025
Sulphate in water	Determination of sulphate in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L010-PL	W	NONE
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total oxidised nitrogen in water	Calculation from nitrate and nitrite.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton & Polish Standard Method PN-82/C-04579.08	L078-PL	W	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073W-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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