

Our Ref AMP/14862CO/22/JLJ

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LION BARN ESTATE  
NEEDHAM MARKET  
SUFFOLK  
IP6 8NZ

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18 February 2019

London Borough of Hackney  
Hackney Service Centre  
1 Hillman Street  
Hackney  
London  
E8 1DY

**For the attention of Mr Steven Pye, Pollution Control Officer**

By Email only –  
[steven.pye@hackney.gov.uk](mailto:steven.pye@hackney.gov.uk)

Dear Steven

**STONE STUDIOS, 80 TO 84 & 88 WALLIS ROAD, HACKNEY WICK E9 5LN  
- RADIELLO CARTRIDGE AIR MONITORING FOR VOC & SVOC**

This letter reports the findings of the twenty-second round of ongoing air monitoring around the boundary of the above site by RSA Geotechnics Limited, at the request of Telford Homes PLC. The monitoring covers the period between 1 and 7 February 2019.

## 1. Introduction

Earlier investigation of the site identified the potential for significant odour/vapour release during development. CFA piling works brought to surface hydrocarbon contaminated soils, as identified within the earlier site investigation. Some odours were reported, and odour/vapour issues were more pronounced during the bulk excavation phase for basement construction for Block A in September 2018. No significant groundworks have been undertaken on site during the monitoring period.

Air monitoring will be maintained for the duration of the groundworks by RSA Geotechnics Limited to assess concentrations of volatile organic compounds at the perimeter of the site during the bulk excavation works and enable the assessment of potential risks to off-site receptors. Radiello 130 passive diffusive sampling tubes have been installed at five locations around the perimeter of the site, to enable measurement of time weighted average concentrations of BTEX, VOC and SVOC, with a sixth monitoring point installed off-site, on the boundary of Mossbourne Academy School. Testing for speciated total petroleum hydrocarbons (TPH) is also undertaken, for two locations on the site boundary (Locations T1 and T2) and one location at the school (Location T3). Monitoring locations are as illustrated on drawing number 14862CO/2.

Key volatile constituents of the contamination at the site were considered to be benzene and naphthalene, and these compounds have been adopted as markers for the initial assessment of contamination.

Initial assessment was undertaken adopting the EH40 Workplace Exposure Limit (WEL) for 8 hour time-weighted average (TWA) exposure for benzene of 1 ppm (3.25 mg/m<sup>3</sup>). There is no UK WEL screening value for naphthalene, however, the US Occupational Safety and Health Administration (OSHA) sets a Permissible Exposure limit (PEL) of 10 ppm (50 mg/m<sup>3</sup>) for naphthalene in workplace air (8 hour TWA). The National Institute for Occupational Safety and Health (NIOSH) 'immediately dangerous to life or health' (IDLH) screening value for naphthalene in air is 250 ppm.

A detailed air quality assessment was subsequently undertaken by Peak Environmental Solutions, to determine human health risk based vapour monitoring criteria for adjacent land users, taking into account adjacent and distal commercial, school and residential receptors, for the main earthworks proposed to be undertaken over a period of nominally 10 weeks. The assessment report was submitted to LLDC, Hackney Council and PHE for review, and a revised version of the report was submitted on 17 January 2019 to LLDC responding to queries raised on the initial review of the report. The screening values determined and presented in the report have not changed and are summarised in Tables 10 and 11:

<b>Table 10 – Passive Threshold-Uc Criteria in mg/m<sup>3</sup></b>				
<b>Substance</b>	<b>Passive Threshold-Uc in mg/m<sup>3</sup></b>			
	<b>Adjacent</b>	<b>Distal</b>		
	<b>Commercial &amp; Passer-by</b>	<b>Commercial</b>	<b>School</b>	<b>Residential</b>
Naphthalene	0.16	0.16	0.06	0.08
Sum TPH	25	25	18	10
Aliphatic TPH C5-C6	Via Sum TPH	Via Sum TPH	Via Sum TPH	Via Sum TPH
Aliphatic TPH C6-8				
Aliphatic TPH C8-10				
Aliphatic TPH C10-12				
Aliphatic TPH C12-16				
Aromatic TPH C5-7 (threshold Benzene)				
Aromatic TPH C7-8 (Toluene)	7.4	7.4	1.8	1.3
Aromatic TPH C8-C10				
Aromatic TPH C10-12				
Aromatic TPH C12-16				
Sum Methylnaphthalenes	0.3	0.3	0.2	0.14
Benzene	0.19	0.19	0.13	0.09
Toluene	Pragmatic 10	Pragmatic 10	4	3
Ethylbenzene				
Sum Xylenes				
Sum TMB	0.14	0.14	0.04	0.03

Notes: These thresholds take into account parameter CF-est where relevant (correction factor for time-weighted average concentrations).

<b>Table 11 – Active Threshold-Uc Criteria in mg/m<sup>3</sup></b>				
<b>Substance</b>	<b>Active Threshold-Uc in mg/m<sup>3</sup></b>			
	<b>Adjacent</b>	<b>Distal</b>		
	<b>Commercial &amp; Passer-by</b>	<b>Commercial</b>	<b>School</b>	<b>Residential</b>
Naphthalene	0.55	0.55	0.19	0.08
Sum TPH	100	100	60	10
Aliphatic TPH C5-C6	Via Sum TPH	Via Sum TPH	Via Sum TPH	Via Sum TPH
Aliphatic TPH C6-8				
Aliphatic TPH C8-10				
Aliphatic TPH C10-12				
Aliphatic TPH C12-16				
Aromatic TPH C5-7 (threshold Benzene)				
Aromatic TPH C7-8 (Toluene)				
Aromatic TPH C8-C10	35	35	6	1.3
Aromatic TPH C10-12				
Aromatic TPH C12-16				
Sum Methylnaphthalenes	1.5	1.5	0.7	0.14
Benzene	0.9	0.9	0.44	0.09
Toluene	Pragmatic 10	Pragmatic 10	Pragmatic 5	3
Ethylbenzene				
Sum Xylenes				
Sum TMB	0.45	0.45	0.13	0.03

The values in Table 10 are used in the assessment of results from the time-weighted average passive sorbent tube monitoring, while the values in Table 11 are relevant to comparison with active ‘real-time’ sampling using sorbent tubes or other methods.

## 2. Fieldwork

The twenty second round of monitoring discussed in this report was undertaken over a six-day period between 1 and 7 February 2019. No excavation works were in progress for the duration of the monitoring.

## 3. Laboratory Analysis

Cross reference between the laboratory test references and the sample locations is given in Table 3.

**Table 3 – Laboratory reference and sample location summary**

Location	Laboratory sample reference
V1	1264I
V2	O596N
V3	O593N
V4	O594N
V5	O592N
V6	1277I
T1	O595N
T2	O597N
T3	1274I

The laboratory analysis included suites of both VOCs and SVOCs. The results were calculated as time-weighted average concentrations.

Concentrations of VOCs including benzene, were below the detection limit for the test method, of 1 µg/m<sup>3</sup> (equivalent to 0.0003 ppm for benzene).

Concentrations of SVOCs, including naphthalene, were below the detection limit for the test method of 1 µg/m<sup>3</sup> (equivalent to 0.0002 ppm for naphthalene).

It should be noted that the methods of test for VOC and SVOC are significantly different; VOC analysis is undertaken using headspace analysis while the SVOC analysis using a solvent to desorb determinands from the sampling tube prior to analysis. Consequently there may be some variation in concentrations of determinands measured depending on the method of analysis.

Testing for speciated total petroleum hydrocarbons (TPH) at the two locations on the site boundary and one location at the school (Locations T1, T2 and T3) recorded all concentrations to be below the detection limit for the test method of 100 µg/m<sup>3</sup>.

#### 4. Conclusions

Concentrations of VOC, SVOC and BTEX were well below the screening values adopted for assessment, as described in this letter report.

Monitoring will continue for the duration of the earthworks on site and will be reported nominally on a weekly basis.

Should you require any further information or assistance, please do not hesitate to contact us.

Yours sincerely  
RSA Geotechnics Ltd

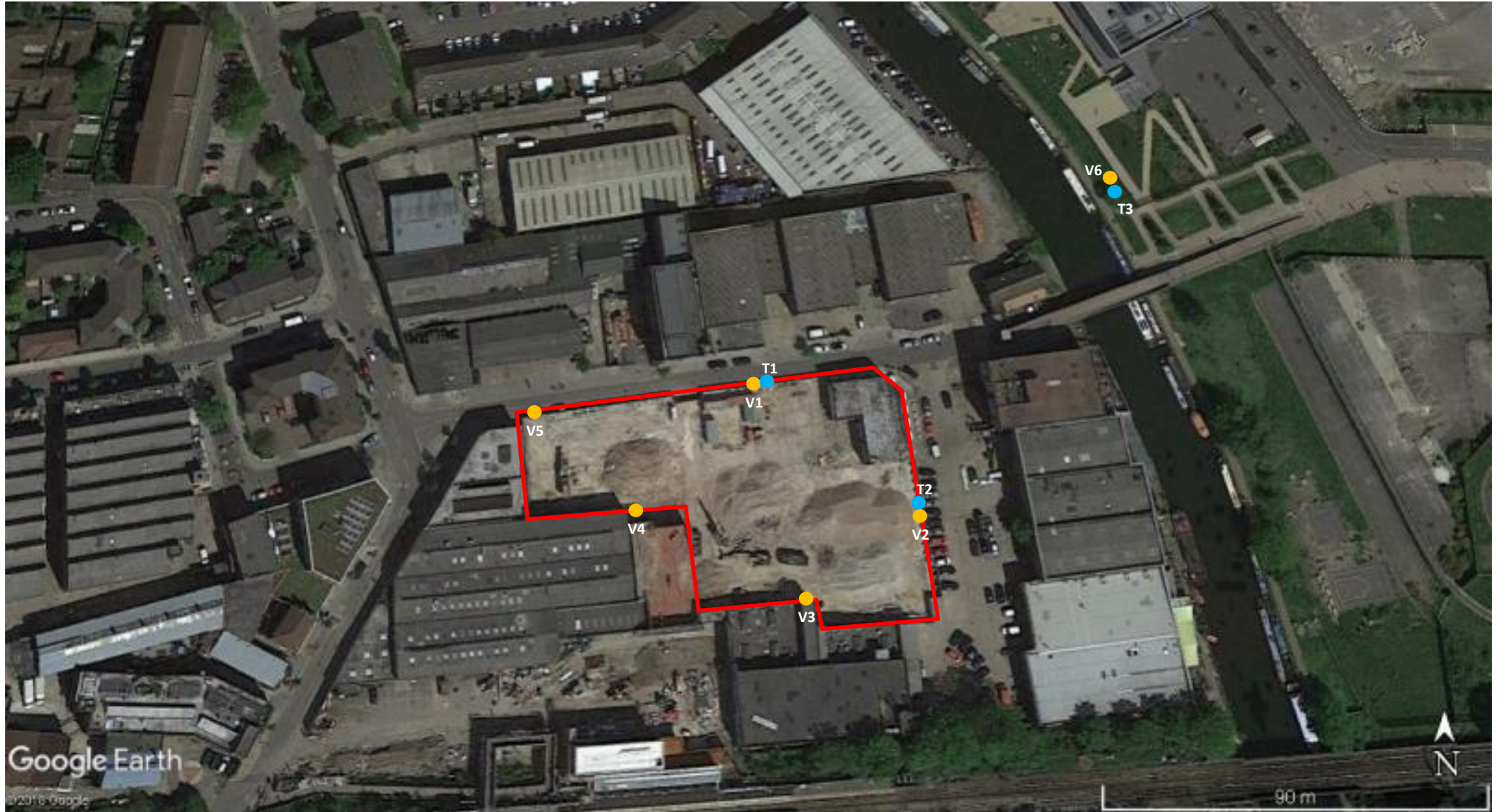
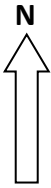


**Adrian Phillips, FGS**  
**Technical Director**

Encs Passive Air Monitoring - Drawing Number 14862CO/2  
Laboratory Test Reports (ELAB, 19-21753 & 57053)

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<p><b>PASSIVE AIR MONITORING</b> (Based upon Google earth image)</p> <p>80 - 84 AND 88 WALLIS ROAD, HACKNEY WICK, E9 5LN</p>	<p>NOTE: All locations are approximate</p> <p>Date 19 NOVEMBER 2018</p>
	<p>Scale NOT TO SCALE</p>
<p><b>RSA GEOTECHNICS LIMITED</b></p>	<p>Drawing No 14862CO/2 Version A</p>



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THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 19-21753  
**Issue:** 1  
**Date of Issue:** 15/02/2019  
**Contact:** Adrian Phillips  
**Customer Details:** RSA Geotechnics Ltd  
Ashburnham House  
1 Maitland Road  
Needham Market  
Suffolk  
IP6 8NZ  
**Quotation No:** Q18-01116  
**Order No:** 14862CO  
**Customer Reference:** 14862CO  
**Date Received:** 11/02/2019  
**Date Approved:** 15/02/2019  
**Details:** Wallis Road Air Monitoring 1 to 7 Feb 2019  
**Approved by:** 

Mike Varley, Technical Manager

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Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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## Sample Summary

Report No.: 19-21753

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
165205	1264I RT V1	07/02/2019	12/02/2019		
165206	0596N RT V2	07/02/2019	12/02/2019		
165207	0593N RT V3	07/02/2019	12/02/2019		
165208	0594N RT V4	07/02/2019	12/02/2019		
165209	0592N RT V5	07/02/2019	12/02/2019		
165210	1277I RT V6	07/02/2019	12/02/2019		





# Results Summary

Report No.: 19-21753

ELAB Reference	165205	165206	165207	165208	165209	165210
Customer Reference	RT V1	RT V2	RT V3	RT V4	RT V5	RT V6
Sample ID						
Sample Type	GAS	GAS	GAS	GAS	GAS	GAS
Sample Location	1264I	0596N	0593N	0594N	0592N	1277I
Sample Depth (m)						
Sampling Date	07/02/2019	07/02/2019	07/02/2019	07/02/2019	07/02/2019	07/02/2019

Determinand	Codes	Units	LOD						
<b>VOC</b>									
MTBE	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Heptane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Octane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Nonane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
m+p-xylene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
o-xylene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-dichloroethene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloromethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethylene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Methylethylbenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloro-1-propene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Trans - 1-2 -dichloroethylene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloro-1-propene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloro-1-propene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromoethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorotoluene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
t-butylbenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1-methylpropylbenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
p-cymene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Butylbenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1-2-3 - Trichlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1-2-4 - Trichlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1



# Results Summary

Report No.: 19-21753

ELAB Reference	165205	165206	165207	165208	165209	165210
Customer Reference	RT V1	RT V2	RT V3	RT V4	RT V5	RT V6
Sample ID						
Sample Type	GAS	GAS	GAS	GAS	GAS	GAS
Sample Location	1264I	0596N	0593N	0594N	0592N	1277I
Sample Depth (m)						
Sampling Date	07/02/2019	07/02/2019	07/02/2019	07/02/2019	07/02/2019	07/02/2019

Determinand	Codes	Units	LOD	07/02/2019	07/02/2019	07/02/2019	07/02/2019	07/02/2019	07/02/2019
<b>SVOC</b>									
Phenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Aniline	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Bis(2-chloroethyl)ether	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorophenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Benzyl Alcohol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylphenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Bis(2-chloroisopropyl)ether	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
3 and 4-methylphenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
N-Nitrosodi-n-propylamine	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachloroethane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitrophenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Bis(2-chloroethoxy)methane	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trichlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
3-Chloroaniline	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachloro-1,3-butadiene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chloro-3-methylphenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylnaphthalene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1-Methylnaphthalene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1-Chloronaphthalene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dinitrobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Dimethyl phthalate	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1-3-dinitrobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2-6-dinitrotoluene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthylene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dinitrobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
3-Nitroaniline	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
4-nitrophenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzofuran	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2,3,5,6-Tetrachlorophenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
2,3,4,6-Tetrachlorophenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Diethyl phthalate	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1-chloro-4-phenoxybenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitroaniline	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Dinitro-o-cresol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Diphenylamine	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Azobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
1-bromo-4-phenoxybenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobenzene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorophenol	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Anthracene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Carbazole	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Dibutyl phthalate	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Fluoranthene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Pyrene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Butyl benzyl phthalate	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Bis-2-ethylhexyladipate	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Butyl benzyl phthalate	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)anthracene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Bis(2-ethylhexyl)phthalate	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno(1,2,3-CD)pyrene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenz(ah)anthracene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	N	µg/m3	1	< 1	< 1	< 1	< 1	< 1	< 1



## Method Summary

Report No.: 19-21753

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
SVOC - Tubes	N		13/02/2019	167	GC-MS
VOC - Tubes	N		13/02/2019	181	GC-MS

Tests marked N are not UKAS accredited



## Report Information

Report No.: 19-21753

### Key

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U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)  
ELAB are unable to provide an interpretation or opinion on the content of this report.  
The results relate only to the items tested  
PCB congener results may include any coeluting PCBs  
Uncertainty of measurement for the determinands tested are available upon request  
Unless otherwise stated, sample information has been provided by the client

### Deviation Codes

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- a No date of sampling supplied
- b No time of sampling supplied (Waters Only)
- c Sample not received in appropriate containers
- d Sample not received in cooled condition
- e The container has been incorrectly filled
- f Sample age exceeds stability time (sampling to receipt)
- g Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

### Sample Retention and Disposal

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All soil samples will be retained for a period of one month  
All water samples will be retained for 7 days following the date of the test report  
Charges may apply to extended sample storage



Unit A2  
Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
TN38 9BY  
Telephone (01424) 718618  
Facsimile (01424) 729911

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**THE ENVIRONMENTAL LABORATORY LTD**

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F.A.O. Adrian Phillips  
RSA Geotechnics Ltd  
1 Maitland Road  
Needham Market  
Suffolk, IP6 8NZ

Reporting Date: 15 February 2019

**ANALYTICAL REPORT No. 57053**

**Samples Received By:** Laboratory Courier

**Sample Receipt Date:** 05/02/19

**Your Job No:** 14862CO

**Your Order No:** 14862CO

**Site Location:** Wallis Road Air Monitoring 1 February to 7 February 2019

**No Samples Received:** 3

**Date of Sampling:** 07/02/19

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*This report was written by:* Stuart Ballard

Authorised By;

Mike Varley  
Technical Manager (BSc, CChem  
CSci, FRSC)

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Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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# THE ENVIRONMENTAL LABORATORY LTD

Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards On Sea, East Sussex, TN38 9BY

Tel: 01424 718618 Fax: 01424 729911

## ANALYTICAL REPORT No. 57053

Location: Wallis Road Air Monitoring 1 February to 7 February 2019



Your Job No: 14862CO  
Your Order No: 14862CO  
Reporting Date: 15/02/19

F.A.O. Adrian Phillips  
RSA Geotechnics Ltd  
1 Maitland Road  
Needham Market  
Suffolk, IP6 8NZ

### TPH CWG - Tubes

Characteristic	TUBE	TUBE	TUBE
Date Sampled	07/02/19	07/02/19	07/02/19
TP/BH	0595N - RT T1	0597N - RT T2	1274I - RT T3
Our ref	38307	38308	38309
<b><u>Aromatic</u></b>			
>EC <sub>5</sub> -EC <sub>7</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>7</sub> -EC <sub>8</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>8</sub> -EC <sub>10</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>10</sub> -EC <sub>12</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>12</sub> -EC <sub>16</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>16</sub> -EC <sub>21</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>21</sub> -EC <sub>35</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>35</sub> -EC <sub>40</sub>	(µg/m <sup>3</sup> )	<100	<100
<b><u>Aliphatic</u></b>			
>EC <sub>5</sub> -EC <sub>6</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>6</sub> -EC <sub>8</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>8</sub> -EC <sub>10</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>10</sub> -EC <sub>12</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>12</sub> -EC <sub>16</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>16</sub> -EC <sub>21</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>21</sub> -EC <sub>35</sub>	(µg/m <sup>3</sup> )	<100	<100
>EC <sub>35</sub> -EC <sub>40</sub>	(µg/m <sup>3</sup> )	<100	<100
TPH (C <sub>5</sub> - C <sub>40</sub> )	(µg/m <sup>3</sup> )	<100	<100

All results expressed on dry weight basis

\*\* - MCERTS accredited test

Stuart Ballard





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## THE ENVIRONMENTAL LABORATORY LTD

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### SAMPLE RECEIPT AND TEST DATES

Our Analytical Report Number      57053  
Your Ref No:                                14862CO  
Sample Receipt Date:                    12/02/19  
Reporting Date:                            15/02/19  
  
Registered:                                 12/02/19  
Prepared:                                    13/02/19  
Analysis complete:                        15/02/19

### TEST METHOD SUMMARY

PARAMETER	Analysis Undertaken on	Date Tested	Method Number	Technique
Carbon Banding (TPH CWG)	As submitted sample	13/02/19	214	Gas chromatography

Note:- Documented In-house procedure based on HSG 248 2005

\*\* - MCERTS Accredited test

Determinands not marked with \* or \*\* are not accredited

MCERTS accreditation covers samples which are predominantly sand, clay, loam or combinations of these three soil types

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