Element Materials Technology

Client Name:	RSK Group Plc
Reference:	1922098
Location:	Shell Welwyn Garden
Contact:	Johanna Houlahan

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analysis	Reason
					No deviating sample report results for job 22/2011	

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating.

Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 22/2011

SOILS and ASH

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at $35^{\circ}C \pm 5^{\circ}C$ unless otherwise stated. Moisture content for CEN Leachate tests are dried at $105^{\circ}C \pm 5^{\circ}C$. Ash samples are dried at $37^{\circ}C \pm 5^{\circ}C$.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCI (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation. Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
В	Indicates analyte found in associated method blank.
DR	Dilution required.
М	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
СО	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
Ν	Client Sample
ТВ	Trip Blank Sample
OC	Outside Calibration Range

Element Materials Technology

EMT Job No: 22/2011

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
ТМ68	Modified TO-15 method. Volatile Organic Compounds (VOCs) sampled using Gas Canisters, BottleVacs or Tedlar bags and analysed using Entech GC-MS.	PM0	No preparation is required.				
TM68	Modified TO-15 method. Volatile Organic Compounds (VOCs) sampled using Gas Canisters, BottleVacs or Tedlar bags and analysed using Entech GC-MS.	PM0	No preparation is required.	Yes			
ТМ69	Analysis of gas samples by direct injection onto a Gas Chromatography (GC) column and analysed using a Flame lonisation Detector (FID) or a Thermocouple Detector (TD)	PM0	No preparation is required.				



FINAL ANALYTICAL TEST REPORT SUPPLEMENT TO TEST REPORT 22/00840/1

Amendments: Request to change samples ID

Envirolab Job Number:	22/00840	
Issue Number:	2	Date: 22 March, 2022

Client:

RSK Environment Ltd Hemel 18 Frogmore Road Hemel Hempstead Hertfordshire UK HP3 9RT

Project Manager:	Johanna Houlahan/Rhys Jones/William Cook
Project Name:	Shell Welwyn Garden
Project Ref:	1922098
Order No:	N/A
Date Samples Received:	31/01/22
Date Instructions Received:	01/02/22
Date Analysis Completed:	17/02/22

Approved by:

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Sophie France Client Service Manager



Page 1 of 32



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7			
Client Sample No										
Client Sample ID	MW101	MW101	MW101	MW102	MW103	MW103	MW103			
Depth to Top	1.6	3.8	4.9	1.00	1.50	3.00	5.00			
Depth To Bottom									<u>u</u>	
Date Sampled	25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		etect	<i>۳</i>
Sample Type	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - ES		Limit of Detection	od re
Sample Matrix Code	4AB	6A	5A	7	6A	5A	4AB	Units	Limit	Method ref
% Moisture at <40C _A	-	-	-	-	-	10.7	-	% w/w	0.1	A-T-044
% Stones >10mm _A	33.5	1.8	16.5	<0.1	2.8	18.3	43.5	% w/w	0.1	A-T-044
Fraction of organic carbon _D #	-	0.0012	-	-	-	-	-	N/A	0.0003	A-T-032 FOC
Arsenic ^{DM#}	1	3	18	26	12	34	4	mg/kg	1	A-T-024s
Boron (water soluble)⊳	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	mg/kg	1	A-T-027s
Cadmium _D ^{M#}	<0.5	<0.5	0.8	<0.5	0.6	1.9	<0.5	mg/kg	0.5	A-T-024s
Cobalt _D ^{M#}	377	12	13	6	11	13	7	mg/kg	1	A-T-024s
Copper _D ^{M#}	41	12	15	121	17	44	10	mg/kg	1	A-T-024s
Chromium _D ^{M#}	45	34	35	16	29	29	25	mg/kg	1	A-T-024s
Lead _D ^{M#}	5	14	14	70	14	26	7	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	0.57	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	54	19	35	15	26	83	17	mg/kg	1	A-T-024s
Selenium _D ^{M#}	2	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Tin⊳	<5	<5	<5	<5	<5	<5	<5	mg/kg	5	A-T-024s
Zinc _D ^{M#}	29	61	89	64	72	199	24	mg/kg	5	A-T-024s
TPH total (>C6-C40)A ^{M#}	-	<10	-	-	-	-	-	mg/kg	10	A-T-007s
TAMEA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	0.1	A-T-022s
DIPEA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	0.1	A-T-022s
ETBEA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	0.1	A-T-022s
ТВАА	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-022s
Hexane (n-Hexane) _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ethanola	<100	<100	<100	1030	<100	<100	131	µg/kg	100	Subcon ALS Haw
1,2-Dichloroethane _A #	<2	<2	<2	<2	<2	<2	<2	µg/kg	2	A-T-006s
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
2-Methylnaphthalene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7			
· ·	22/00040/1	22/00040/2	22/00040/0	22/00040/4	22/00040/0	22/00040/0	22/00040/1			
Client Sample No										
Client Sample ID	MW101	MW101	MW101	MW102	MW103	MW103	MW103			
Depth to Top	1.6	3.8	4.9	1.00	1.50	3.00	5.00			
Depth To Bottom									U	
Date Sampled	25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		Limit of Detection	ž
Sample Type	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - ES		t of D	Method ref
Sample Matrix Code	4AB	6A	5A	7	6A	5A	4AB	Units	Limi	Meth
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D #	NAD	-	-	Chrysotile	NAD	NAD	-			A-T-045
Asbestos Matrix (visual)⊳	-	-	-	Loose Insulation	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	-	-	N/A	N/A	N/A	-			A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing) _D	-	-	-	0.072	-	-	-	% w/w	0.001	A-T-054



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7			
Client Sample No										
Client Sample ID	MW101	MW101	MW101	MW102	MW103	MW103	MW103			
Depth to Top	1.6	3.8	4.9	1.00	1.50	3.00	5.00			
Depth To Bottom									ion	
Date Sampled	25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		etect	يە تە
Sample Type	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - ES		Limit of Detection	Method ref
Sample Matrix Code	4AB	6A	5A	7	6A	5A	4AB	Units	Limit	Meth
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	0.89	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene ^{A^{M#}}	<0.04	<0.04	<0.04	2.86	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene₄ ^{M#}	<0.04	<0.04	<0.04	2.31	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene ^{AM#}	<0.05	<0.05	<0.05	2.67	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene₄ ^{M#}	<0.05	<0.05	<0.05	0.99	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	0.85	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	2.66	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	0.22	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	7.31	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene ^{AM#}	<0.03	<0.03	<0.03	1.32	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	3.60	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	6.35	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS ^{AM#}	<0.08	<0.08	<0.08	32.1	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s



Client Project Name: Shell Welwyn Garden

						ject Ref: 19				
Lab Sample ID	22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7			
Client Sample No										
Client Sample ID	MW101	MW101	MW101	MW102	MW103	MW103	MW103			
Depth to Top	1.6	3.8	4.9	1.00	1.50	3.00	5.00			
Depth To Bottom									u	
Date Sampled	25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		etect	
Sample Type	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - ES		Limit of Detection	Method ref
Sample Matrix Code	4AB	6A	5A	7	6A	5A	4AB	Units	Limit	Meth
SVOC excluding PAH-16										
4-Bromophenyl phenyl ether _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorobenzene₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Diethyl phthalate _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Dibenzofuran _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Carbazole₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate _A	-	-	<500	-	-	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
4-Nitrophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Nitrophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Methylphenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,2,4-Trichlorobenzene₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Chlorophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,4-Dichlorobenzene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,3-Dichlorobenzene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,2-Dichlorobenzene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Phenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC) _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate _A	-	-	<500	-	-	-	-	µg/kg	500	A-T-052s



Client Project Name: Shell Welwyn Garden

					Client Pro	ject Ref: 19	22098			
Lab Sample ID	22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7			
Client Sample No										
Client Sample ID	MW101	MW101	MW101	MW102	MW103	MW103	MW103			
Depth to Top	1.6	3.8	4.9	1.00	1.50	3.00	5.00			
Depth To Bottom									ion	
Date Sampled	25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		Limit of Detection	¥
Sample Type	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - ES	<i>"</i>	t of D	od ref
Sample Matrix Code	4AB	6A	5A	7	6A	5A	4AB	Units	Limit	Method
n-Dibutylphthalate _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Nitrobenzene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Isophorone _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachloroethane _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorobutadiene	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Perylene₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s



Client Project Name: Shell Welwyn Garden

						Ject Ref: 19	22000			
Lab Sample ID	22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7			
Client Sample No										
Client Sample ID	MW101	MW101	MW101	MW102	MW103	MW103	MW103			
Depth to Top	1.6	3.8	4.9	1.00	1.50	3.00	5.00			
Depth To Bottom									ы	
Date Sampled	25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		tecti	
Sample Type	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - ES		of De	od ref
Sample Matrix Code	4AB	6A	5A	7	6A	5A	4AB	Units	Limit of Detection	Method ref
voc										
Dichlorodifluoromethane _A	<1	<1	-	<1	-			µg/kg	1	A-T-006s
Chloromethane₄	<10	<10	-	<10				µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A #	<1	<1	-	<1	-	-		µg/kg	1	A-T-006s
Bromomethane _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Chloroethane _A #	<1	<1	-	<1				µg/kg	1	A-T-006s
Trichlorofluoromethane _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene [*]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Carbon Disulphide₄ [#]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Dichloromethane _A	<5	<5	-	<5	-	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene [#]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Bromochloromethane ₄ #	<5	<5	-	<5	-	-	-	µg/kg	5	A-T-006s
Chloroform _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane₄ [#]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene ^{A#}	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride₄ [#]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Benzene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Trichloroethene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Dibromomethane _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Bromodichloromethane _A #	<10	<10	-	<10	-	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene ⁴	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Toluene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene ⁴	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane [#]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Tetrachloroethene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Dibromochloromethane _A #	<3	<3	-	<3	-	-	-	µg/kg	3	A-T-006s
Chlorobenzene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s



Client Project Name: Shell Welwyn Garden

					Client Pro	ject Ref: 19	22098			
Lab Sample ID	22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7			
Client Sample No										
Client Sample ID	MW101	MW101	MW101	MW102	MW103	MW103	MW103			
Depth to Top	1.6	3.8	4.9	1.00	1.50	3.00	5.00			
Depth To Bottom									ion	
Date Sampled	25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		Limit of Detection	F.
Sample Type	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - ES		: of D	Method ref
Sample Matrix Code	4AB	6A	5A	7	6A	5A	4AB	Units	Limit	Meth
Ethylbenzene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
m & p Xylene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
o-Xylene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Styrene ^{"#}	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Bromoform _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
lsopropylbenzene₄ [#]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane _A	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
Bromobenzene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
n-Propylbenzene ₄ #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene ⁴	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene ⁴	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene _A #	<2	<2	-	<2	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene [#]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
4-Isopropyltoluene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene ⁴	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
n-Butylbenzene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene [#]	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	<2	<2	-	<2	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	<3	<3	-	<3	-	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene _A #	<1	<1	-	<1	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	<3	<3	-	<3	-	-	-	µg/kg	3	A-T-006s



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7			
Client Sample No										
Client Sample ID	MW101	MW101	MW101	MW102	MW103	MW103	MW103			
Depth to Top	1.6	3.8	4.9	1.00	1.50	3.00	5.00			
Depth To Bottom									io	
Date Sampled	25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		etect	ų.
Sample Type	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - ES		Limit of Detection	Method ref
Sample Matrix Code	4AB	6A	5A	7	6A	5A	4AB	Units	Limit	Meth
TPH CWG with Clean Up *C1										
Ali >C5-C6 _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 ₄ #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	2	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21 ^{AM#}	<1	<1	<1	11	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	1	<1	<1	129	<1	<1	<1	mg/kg	1	A-T-055s
Total Aliphatics _A	1	<1	<1	142	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C5-C7 _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<5	<5	<5	7	<5	<5	<5	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	<1	<1	4	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	<1	<1	37	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C21-C35 _A	<1	<1	<1	173	<1	<1	<1	mg/kg	1	A-T-055s
Total Aromatics _A	<5	<5	<5	222	<5	<5	<5	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)₄	<5	<5	<5	363	<5	<5	<5	mg/kg	1	A-T-055s
BTEX - Benzene _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14			
Client Sample No										
Client Sample ID	MW104	MW104	MW105	MW105	MW105	VP01	VP01			
Depth to Top	0.70	3.00	1	3	5	0.3	1.7			
Depth To Bottom									ion	
Date Sampled	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22		etect	ł
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Solid		Limit of Detection	Method ref
Sample Matrix Code	5A	5A	4ABE	4A	5A	7	7	Units	Limit	Meth
% Moisture at <40C _A	-	-	-	9.7	-	-	-	% w/w	0.1	A-T-044
% Stones >10mm _A	38.8	16.6	30.3	10.3	18.4	<0.1	<0.1	% w/w	0.1	A-T-044
Arsenic ^{D^{M#}}	12	8	6	3	2	<1	<1	mg/kg	1	A-T-024s
Boron (water soluble)⊳	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	mg/kg	1	A-T-027s
Cadmium _D ^{M#}	0.6	0.6	0.8	0.5	0.6	<0.5	0.6	mg/kg	0.5	A-T-024s
Cobalt _D ^{M#}	9	11	5	3	8	9	6	mg/kg	1	A-T-024s
Copper _D ^{M#}	10	13	17	5	7	11	12	mg/kg	1	A-T-024s
Chromium _D ^{M#}	20	30	24	13	29	36	40	mg/kg	1	A-T-024s
Lead _D ^{M#}	15	12	59	5	10	4	4	mg/kg	1	A-T-024s
Mercury⊳	<0.17	<0.17	0.59	<0.17	<0.17	<0.17	0.81	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	23	40	20	13	25	34	37	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Tin _D	<5	<5	<5	<5	<5	<5	<5	mg/kg	5	A-T-024s
Zinc _D ^{M#}	54	61	79	30	29	27	24	mg/kg	5	A-T-024s
TAMEA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	0.1	A-T-022s
DIPEA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	0.1	A-T-022s
ETBEA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	0.1	A-T-022s
ТВАА	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-022s
Hexane (n-Hexane) _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ethanol _A	177	<100	148	<100	137	<100	<100	µg/kg	100	Subcon ALS Haw
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/kg	2	A-T-006s
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
2-Methylnaphthalene _A	<100	<100	<100	<100	<100	<100	<100	µg/kg	100	A-T-052s



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14			
Client Sample No										
Client Sample ID	MW104	MW104	MW105	MW105	MW105	VP01	VP01			
Depth to Top	0.70	3.00	1	3	5	0.3	1.7			
Depth To Bottom									ion	
Date Sampled	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22		Detection	jf.
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Solid			od ref
Sample Matrix Code	5A	5A	4ABE	4A	5A	7	7	Units	Limit of	Method
Asbestos in Soil (inc. matrix)										
Asbestos in soil _b #	NAD	-	NAD	NAD	-	NAD	NAD			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	-	N/A	N/A	-	N/A	N/A			A-T-045



Client Project Name: Shell Welwyn Garden

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Lab Sample ID	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14			
Client Sample No										
Client Sample ID	MW104	MW104	MW105	MW105	MW105	VP01	VP01			
Depth to Top	0.70	3.00	1	3	5	0.3	1.7			
Depth To Bottom									ion	
Date Sampled	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22		etect	if
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Solid		Limit of Detection	Method ref
Sample Matrix Code	5A	5A	4ABE	4A	5A	7	7	Units	Limit	Meth
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	0.18	<0.01	<0.01	<0.01	0.02	mg/kg	0.01	A-T-019s
Acenaphthylene₄ ^{M#}	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	0.26	<0.02	<0.02	<0.02	0.07	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.05	<0.04	0.28	<0.04	<0.04	<0.04	0.07	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.05	<0.04	0.54	<0.04	<0.04	<0.04	0.05	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.07	<0.05	0.41	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene ^{A^{M#}}	0.05	<0.05	0.59	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	0.14	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	0.33	<0.06	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	0.06	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	0.83	<0.08	<0.08	<0.08	0.20	mg/kg	0.08	A-T-019s
Fluorene₄ ^{M#}	<0.01	<0.01	0.15	<0.01	<0.01	<0.01	0.03	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.05	<0.03	0.52	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene A ^{M#}	<0.03	<0.03	0.09	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.03	<0.03	1.12	<0.03	<0.03	<0.03	0.22	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.08	<0.07	0.67	<0.07	<0.07	<0.07	0.16	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	0.38	<0.08	6.19	<0.08	<0.08	<0.08	0.82	mg/kg	0.01	A-T-019s



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14			
Client Sample No										
Client Sample ID	MW104	MW104	MW105	MW105	MW105	VP01	VP01			
Depth to Top	0.70	3.00	1	3	5	0.3	1.7			
Depth To Bottom									io	
Date Sampled	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22		etect	J.
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Solid		Limit of Detection	od re
Sample Matrix Code	5A	5A	4ABE	4A	5A	7	7	Units	Limit	Method ref
Speciated PCB-EC7 & WHO12										
PCB BZ 28 ^{AM#}	-	-	<0.002	-	-	-	-	mg/kg	0.002	A-T-004s
PCB BZ 52 ^{AM#}	-	-	<0.002	-	-	-	-	mg/kg	0.002	A-T-004s
PCB BZ 81A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 101 _A ^{M#}	-	-	<0.004	-	-	-	-	mg/kg	0.004	A-T-004s
PCB BZ 105 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 114 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 118 ^{AM#}	-	-	<0.007	-	-	-	-	mg/kg	0.007	A-T-004s
PCB BZ 123 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 126 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 138 ^{AM#}	-	-	<0.006	-	-	-	-	mg/kg	0.006	A-T-004s
PCB BZ 153 ^{AM#}	-	-	<0.004	-	-	-	-	mg/kg	0.004	A-T-004s
PCB BZ 156A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 157 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 167 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 169 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 180 ^{AM#}	-	-	<0.004	-	-	-	-	mg/kg	0.004	A-T-004s
PCB BZ 189 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
PCB BZ 77 _A	-	-	<0.005	-	-	-	-	mg/kg	0.005	A-T-004s
Total Speciated PCB-EC7 & WHO12 _A	-	-	<0.007	-	-	-	-	mg/kg	0.002	A-T-004s



Client Project Name: Shell Welwyn Garden

8						ect Ref. 19				
Lab Sample ID	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14			
Client Sample No										
Client Sample ID	MW104	MW104	MW105	MW105	MW105	VP01	VP01			
Depth to Top	0.70	3.00	1	3	5	0.3	1.7			
Depth To Bottom									<u>io</u>	
Date Sampled	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22		etect	÷
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Solid		Limit of Detection	Method ref
Sample Matrix Code	5A	5A	4ABE	4A	5A	7	7	Units	Limit	Meth
SVOC excluding PAH-16										
4-Bromophenyl phenyl ether _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorobenzene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Diethyl phthalate _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Dimethyl phthalate _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Dibenzofuran₄	-	-	127	-	-	-	-	µg/kg	100	A-T-052s
Carbazole _A	-	-	176	-	-	-	-	µg/kg	100	A-T-052s
Butylbenzyl phthalate₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate _A	-	-	<500	-	-	-	-	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
4-Nitrophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
3+4-Methylphenol₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Nitrophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Methylphenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,2,4-Trichlorobenzene₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Chlorophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,6-Dinitrotoluene₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dinitrotoluene₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dimethylphenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4-Dichlorophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,4-Dichlorobenzene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,3-Dichlorobenzene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
1,2-Dichlorobenzene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
2-Chloronaphthalene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Phenol _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Pentachlorophenol (SVOC) _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
n-Dioctylphthalate _A	-	-	<500	-	-	-	-	µg/kg	500	A-T-052s



Client Project Name: Shell Welwyn Garden

					Client Pro	ect Ref: 19	22090			
Lab Sample ID	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14			
Client Sample No										
Client Sample ID	MW104	MW104	MW105	MW105	MW105	VP01	VP01			
Depth to Top	0.70	3.00	1	3	5	0.3	1.7			
Depth To Bottom									ion	
Date Sampled	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22		Limit of Detection	¥
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Solid	<i>"</i>	t of D	Method ref
Sample Matrix Code	5A	5A	4ABE	4A	5A	7	7	Units	Limit	Meth
n-Dibutylphthalate _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Nitrobenzene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Isophorone _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachloroethane₄	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Hexachlorobutadiene _A	-	-	<100	-	-	-	-	µg/kg	100	A-T-052s
Perylene _A	-	-	201	-	-	-	-	µg/kg	100	A-T-052s



Client Project Name: Shell Welwyn Garden

						ect Kel. 19				
Lab Sample ID	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14			
Client Sample No										
Client Sample ID	MW104	MW104	MW105	MW105	MW105	VP01	VP01			
Depth to Top	0.70	3.00	1	3	5	0.3	1.7			
Depth To Bottom									u	
Date Sampled	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22		stecti	
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Solid		of De	od rei
Sample Matrix Code	5A	5A	4ABE	4A	5A	7	7	Units	Limit of Detection	Method ref
voc										
Dichlorodifluoromethane _A	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Chloromethane _A	-	-	-	-	-	<10	<10	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Bromomethane ₄ #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Chloroethane _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Trichlorofluoromethane _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethene₄ [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Carbon Disulphide _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Dichloromethane _A	-	-	-	-	-	<5	<5	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethane _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
2,2-Dichloropropane [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Bromochloromethane _A #	-	-	-	-	-	<5	<5	µg/kg	5	A-T-006s
Chloroform _A [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,1,1-Trichloroethane [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloropropene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Carbon Tetrachloride₄ [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Benzene ^{"#}	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Trichloroethene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloropropane _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Dibromomethane _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Bromodichloromethane _A #	-	-	-	-	-	<10	<10	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene ⁴	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Toluene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene ⁴	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,1,2-Trichloroethane [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,3-Dichloropropane₄ [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Tetrachloroethene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Dibromochloromethane _A #	-	-	-	-	-	<3	<3	µg/kg	3	A-T-006s
Chlorobenzene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,1,1,2-TetrachloroethaneA	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s



Client Project Name: Shell Welwyn Garden

					Client Proj	ject Ref: 19	22098			
Lab Sample ID	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14			
Client Sample No										
Client Sample ID	MW104	MW104	MW105	MW105	MW105	VP01	VP01			
Depth to Top	0.70	3.00	1	3	5	0.3	1.7			
Depth To Bottom									uo	
Date Sampled	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22		etecti	-
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Solid		of De	od re
Sample Matrix Code	5A	5A	4ABE	4A	5A	7	7	Units	Limit of Detection	Method ref
Ethylbenzene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
m & p Xylene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
o-Xylene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Styrene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Bromoform _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Isopropylbenzene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane _A	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichloropropane ⁴	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
Bromobenzene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
n-Propylbenzene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
2-Chlorotoluene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
4-Chlorotoluene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
tert-Butylbenzene _A #	-	-	-	-	-	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
sec-Butylbenzene ^{"#}	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
4-Isopropyltoluene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,4-Dichlorobenzene₄ [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
n-Butylbenzene ^{"#}	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichlorobenzene [#]	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	-	•	-	-	-	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	-	-	-	-	-	<3	<3	µg/kg	3	A-T-006s
Hexachlorobutadiene _A #	-	-	-	-	-	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	-	-	-	-	-	<3	<3	µg/kg	3	A-T-006s



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14			
Client Sample No										
Client Sample ID	MW104	MW104	MW105	MW105	MW105	VP01	VP01			
Depth to Top	0.70	3.00	1	3	5	0.3	1.7			
Depth To Bottom									io	
Date Sampled	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22		etect	ىپ ب
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Solid		Limit of Detection	Method ref
Sample Matrix Code	5A	5A	4ABE	4A	5A	7	7	Units	Limit	Meth
TPH CWG with Clean Up *C1										
Ali >C5-C6 _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	3	<1	24	<1	4	5	2	mg/kg	1	A-T-055s
Total Aliphatics _A	3	<1	24	<1	4	5	2	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<5	<5	<5	<5	<5	<5	63	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	<1	5	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C16-C21 ^{AM#}	<1	<1	4	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C21-C35A	3	<1	28	<1	<1	4	1	mg/kg	1	A-T-055s
Total Aromatics _A	<5	<5	36	<5	<5	<5	64	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)₄	5	<5	60	<5	<5	9	66	mg/kg	1	A-T-055s
BTEX - Benzene₄ [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A #	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s



Client Project Name: Shell Welwyn Garden

						-	•			
Lab Sample ID	22/00840/15	22/00840/16	22/00840/17	22/00840/18	22/00840/19	22/00840/20	22/00840/21			
Client Sample No										
Client Sample ID	QAQC01	SKIP	MW101	MW101	MW103	MW103	MW103			
Depth to Top			2.5	6	0.5	2.5	3.8			
Depth To Bottom									ion	
Date Sampled	25-Jan-22	27-Jan-22	25-Jan-22	25-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		etect	ų.
Sample Type	Soil - ES		of D	od re						
Sample Matrix Code	6A	6A						Units	Limit of Detection	Method ref
% Moisture at <40C _A	-	9.7	-	-	-	-	-	% w/w	0.1	A-T-044
% Stones >10mm _A	11.3	38.2	-	-	-	-	-	% w/w	0.1	A-T-044
Arsenic _D ^{M#}	4	-	-	-	-	-	-	mg/kg	1	A-T-024s
Boron (water soluble)⊳	<1.0	-	-	-	-	-	-	mg/kg	1	A-T-027s
Cadmium _D ^{M#}	0.7	-	-	-	-	-	-	mg/kg	0.5	A-T-024s
Cobalt _D ^{M#}	12	-	-	-	-	-	-	mg/kg	1	A-T-024s
Copper₀ ^{M#}	31	-	-	-	-	-	-	mg/kg	1	A-T-024s
Chromium _D ^{M#}	24	-	-	-	-	-	-	mg/kg	1	A-T-024s
Lead _D ^{M#}	11	-	-	-	-	-	-	mg/kg	1	A-T-024s
Mercury _D	<0.17	-	-	-	-	-	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	40	-	-	-	-	-	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	-	-	-	-	-	-	mg/kg	1	A-T-024s
Tin _D	<5	-	-	-	-	-	-	mg/kg	5	A-T-024s
Zinc _D ^{M#}	42	-	-	-	-	-	-	mg/kg	5	A-T-024s
TAMEA	<0.1	-	-	-	-	-	-	mg/kg	0.1	A-T-022s
DIPEA	<0.1	-	-	-	-	-	-	mg/kg	0.1	A-T-022s
ETBEA	<0.1	-	-	-	-	-	-	mg/kg	0.1	A-T-022s
ТВАА	<0.5	-	-	-	-	-	-	mg/kg	0.5	A-T-022s
Hexane (n-Hexane) _A #	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
Ethanol₄	<100	-	-	-	-	-	-	µg/kg	100	Subcon ALS Haw
1,2-Dichloroethane _A #	<2	-	-	-	-	-	-	µg/kg	2	A-T-006s
1,2-Dibromoethane _A [#]	<1	-	•	-	-	-		µg/kg	1	A-T-006s
2-Methylnaphthalene _A	<100	-	-	-	-	-	-	µg/kg	100	A-T-052s



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/15	22/00840/16	22/00840/17	22/00840/18	22/00840/19	22/00840/20	22/00840/21			
Client Sample No										
Client Sample ID	QAQC01	SKIP	MW101	MW101	MW103	MW103	MW103			
Depth to Top			2.5	6	0.5	2.5	3.8			
Depth To Bottom									ion	
Date Sampled	25-Jan-22	27-Jan-22	25-Jan-22	25-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		Detection	ref
Sample Type	Soil - ES	6		od re						
Sample Matrix Code	6A	6A						Units	Limit of	Method
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D #	NAD	NAD	-	-	-	-	-			A-T-045
Asbestos Matrix (visual)⊳	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope)₀	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	-	-	-	-	-			A-T-045



Client Project Name: Shell Welwyn Garden

					-					
Lab Sample ID	22/00840/15	22/00840/16	22/00840/17	22/00840/18	22/00840/19	22/00840/20	22/00840/21			
Client Sample No										
Client Sample ID	QAQC01	SKIP	MW101	MW101	MW103	MW103	MW103			
Depth to Top			2.5	6	0.5	2.5	3.8			
Depth To Bottom									ion	
Date Sampled	25-Jan-22	27-Jan-22	25-Jan-22	25-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		etect	Ŧ
Sample Type	Soil - ES		Limit of Detection	Method ref						
Sample Matrix Code	6A	6A						Units	Limit	Meth
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-019s
Acenaphthylene₄ ^{M#}	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	-	-	-	-	-	-	mg/kg	0.02	A-T-019s
Benzo(a)anthracene₄ ^{M#}	<0.04	-	-	-	-	-	-	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	-	-	-	-	-	-	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	-	-	-	-	-	-	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene₄ ^{M#}	<0.05	-	-	-	-	-	-	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	-	-	-	-	-	-	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	-	-	-	-	-	-	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	-	-	-	-	-	-	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	-	-	-	-	-	-	mg/kg	0.08	A-T-019s
Fluorene ^{A^{M#}}	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene ^{AM#}	<0.03	-	-	-	-	-	-	mg/kg	0.03	A-T-019s
Naphthalene A ^{M#}	<0.03	-	-	-	-	-	-	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	-	-	-	-	-	-	mg/kg	0.03	A-T-019s
Pyrene₄ ^{M#}	<0.07	-	-	-	-	-	-	mg/kg	0.07	A-T-019s
Total PAH-16MS ^{AM#}	<0.08	-	-	-	-	-	-	mg/kg	0.01	A-T-019s



Client Project Name: Shell Welwyn Garden

						ect Kel. 19				
Lab Sample ID	22/00840/15	22/00840/16	22/00840/17	22/00840/18	22/00840/19	22/00840/20	22/00840/21			
Client Sample No										
Client Sample ID	QAQC01	SKIP	MW101	MW101	MW103	MW103	MW103			
Depth to Top			2.5	6	0.5	2.5	3.8			
Depth To Bottom									ы	
Date Sampled	25-Jan-22	27-Jan-22	25-Jan-22	25-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		tecti	
Sample Type	Soil - ES		of De	od ref						
Sample Matrix Code	6A	6A						Units	Limit of Detection	Method ref
voc										
Dichlorodifluoromethane _A	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Chloromethane _A	<10	-	-	-	-	-	-	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A #	<1	-	-		-	-	-	µg/kg	1	A-T-006s
Bromomethane _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Chloroethane _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Trichlorofluoromethane _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethene [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Disulphide₄ [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Dichloromethane _A	<5	-	-	-	-	-	-	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloroethane _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene₄ [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
2,2-Dichloropropane _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromochloromethane _A #	<5	-	-	-	-	-	-	µg/kg	5	A-T-006s
Chloroform _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1-Trichloroethane₄ [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1-Dichloropropene ^{"#}	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Carbon Tetrachloride₄ [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Benzene₄ [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Trichloroethene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichloropropane _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromomethane _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromodichloromethane _A #	<10	-	-	-	-	-	-	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene ^{"#}	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Toluene₄ [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene ⁴	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2-Trichloroethane [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichloropropane₄ [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Tetrachloroethene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Dibromochloromethane _A #	<3	-	-	-	-	-	-	µg/kg	3	A-T-006s
Chlorobenzene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,1,2-TetrachloroethaneA	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s



Client Project Name: Shell Welwyn Garden

					Client Pro	ject Ref: 19	22098			
Lab Sample ID	22/00840/15	22/00840/16	22/00840/17	22/00840/18	22/00840/19	22/00840/20	22/00840/21			
Client Sample No										
Client Sample ID	QAQC01	SKIP	MW101	MW101	MW103	MW103	MW103			
Depth to Top			2.5	6	0.5	2.5	3.8			
Depth To Bottom									uo	
Date Sampled	25-Jan-22	27-Jan-22	25-Jan-22	25-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		tection	
Sample Type	Soil - ES	Soil - ES		of De	od ref					
Sample Matrix Code	6A	6A						Units	Limit of Detection	Method ref
Ethylbenzene _A #	<1	-	-	-	-	-	-	μg/kg	1	 A-T-006s
m & p Xylene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
o-Xylene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Styrene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromoform _A [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Isopropylbenzene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane _A	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichloropropane [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
Bromobenzene₄ [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
n-Propylbenzene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
2-Chlorotoluene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene ⁴	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
4-Chlorotoluene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
tert-Butylbenzene _A #	<2	-	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
sec-Butylbenzene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
4-IsopropyItoluene₄ [#]	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
n-Butylbenzene ^{"#}	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	<2	-	-	-	-	-	-	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	<3	-	-	-	-	-	-	µg/kg	3	A-T-006s
Hexachlorobutadiene _A #	<1	-	-	-	-	-	-	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	<3	-	-	-	-	-	-	µg/kg	3	A-T-006s



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/15	22/00840/16	22/00840/17	22/00840/18	22/00840/19	22/00840/20	22/00840/21			
Client Sample No										
Client Sample ID	QAQC01	SKIP	MW101	MW101	MW103	MW103	MW103			
Depth to Top			2.5	6	0.5	2.5	3.8			
Depth To Bottom									io	
Date Sampled	25-Jan-22	27-Jan-22	25-Jan-22	25-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22		etect	т.
Sample Type	Soil - ES		Limit of Detection	Method ref						
Sample Matrix Code	6A	6A						Units	Limit	Meth
TPH CWG with Clean Up *C1										
Ali >C5-C6 _A #	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
Ali >C8-C10₄	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Ali >C12-C16 ^{AM#}	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Ali >C21-C35 ^{AM#}	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Total Aliphatics _A	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Aro >C5-C7 _A #	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A #	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<5	-	-	-	-	-	-	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Aro >C16-C21 ^{AM#}	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Aro >C21-C35 _A	<1	-	-	-	-	-	-	mg/kg	1	A-T-055s
Total Aromatics _A	<5	-	-	-	-	-	-	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35)₄	<5	-	-	-	-	-	-	mg/kg	1	A-T-055s
BTEX - Benzene ^{"#}	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
BTEX - Toluene _A #	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A #	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A #	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A #	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s
MTBE _A #	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-022s



Client Project Name: Shell Welwyn Garden

Lab Sample ID	22/00840/22	22/00840/23	22/00840/24	22/00840/25	22/00840/26	22/00840/27			
Client Sample No									
Client Sample ID	MW103	MW104	MW105	MW105	MW105	QAQC7			
Depth to Top	6	2	2	4	6				
Depth To Bottom								io	
Date Sampled	27-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22		Limit of Detection	·
Sample Type	Soil - ES		of D	Method ref					
Sample Matrix Code					5A		Units	Limit	Meth
% Stones >10mm _A	-	-	-	-	<0.1	-	% w/w	0.1	A-T-044
Arsenic _D ^{M#}	-	-	-	-	2	-	mg/kg	1	A-T-024s
Boron (water soluble)⊳	-	-	-	-	<1.0	-	mg/kg	1	A-T-027s
Cadmium _D ^{M#}	-	-	-	-	0.5	-	mg/kg	0.5	A-T-024s
Cobalt _D ^{M#}	-	-	-	-	12	-	mg/kg	1	A-T-024s
Copper₀ ^{M#}	-	-	-	-	7	-	mg/kg	1	A-T-024s
Chromium _D ^{M#}	-	-	-	-	12	-	mg/kg	1	A-T-024s
Lead _D ^{M#}	-	-	-	-	8	-	mg/kg	1	A-T-024s
Mercury _D	-	-	-	-	<0.17	-	mg/kg	0.17	A-T-024s
Nickel ^{D^{M#}}	-	-	-	-	14	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	-	-	-	-	<1	-	mg/kg	1	A-T-024s
Tin _D	-	-	-	-	<5	-	mg/kg	5	A-T-024s
Zinc _D ^{M#}	-	-	-	-	29	-	mg/kg	5	A-T-024s
TAMEA	-	-	-	-	<0.1	-	mg/kg	0.1	A-T-022s
DIPEA	-	-	-	-	<0.1	-	mg/kg	0.1	A-T-022s
ETBEA	-	-	-	-	<0.1	-	mg/kg	0.1	A-T-022s
ТВАА	-	-	-	-	<0.5	-	 mg/kg	0.5	A-T-022s
Hexane (n-Hexane) _A #	-	-	-	-	<0.01	-	 mg/kg	0.01	A-T-022s
Ethanol₄	-	-	-	-	<100	-	µg/kg	100	Subcon ALS Haw
1,2-Dichloroethane _A #	-	-	-	-	<2	-	µg/kg	2	A-T-006s
1,2-Dibromoethane _A #	-	-	-	-	<1	-	µg/kg	1	A-T-006s
2-Methylnaphthalene _A	-	-	-	-	<100	-	µg/kg	100	A-T-052s
					-	•			



Client Project Name: Shell Welwyn Garden

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22/00840/22	22/00840/23	22/00840/24	22/00840/25	22/00840/26	22/00840/27				
MW103	MW104	MW105	MW105	MW105	QAQC7				
6	2	2	4	6					
								ion	
27-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22			etect	ų.
Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			ofD	Method ref
				5A			Units	Limit	Meth
-	-	-	-	<0.01	-		mg/kg	0.01	A-T-019s
-	-	-	-	<0.01	-		mg/kg	0.01	A-T-019s
-	-	-	-	<0.02	-		mg/kg	0.02	A-T-019s
-	-	-	-	<0.04	-		mg/kg	0.04	A-T-019s
-	-	-	-	<0.04	-		mg/kg	0.04	A-T-019s
-	-	-	-	<0.05	-		mg/kg	0.05	A-T-019s
-	-	-	-	<0.05	-		mg/kg	0.05	A-T-019s
-	-	-	-	<0.07	-		mg/kg	0.07	A-T-019s
-	-	-	-	<0.06	-		mg/kg	0.06	A-T-019s
-	-	-	-	<0.04	-		mg/kg	0.04	A-T-019s
-	-	-	-	<0.08	-		mg/kg	0.08	A-T-019s
-	-	-	-	<0.01	-		mg/kg	0.01	A-T-019s
-	-	-	-	<0.03	-		mg/kg	0.03	A-T-019s
-	-	-	-	<0.03	-		mg/kg	0.03	A-T-019s
-	-	-	-	<0.03	-		mg/kg	0.03	A-T-019s
-	-	-	-	<0.07	-		mg/kg	0.07	A-T-019s
-	-	-	-	<0.08	-		mg/kg	0.01	A-T-019s
	MW103 6 27-Jan-22 Soil - ES - - - - - - - - - - - - - - - - - - -	MW103 MW104 6 2 27-Jan-22 26-Jan-22 Soil - ES Soil - ES Soil - ES Soil - ES - -	MW103 MW104 MW105 6 2 2 27-Jan-22 26-Jan-22 26-Jan-22 Soil - ES Soil - ES Soil - ES Soil - ES Soil - ES Soil - ES - - -	Image: second	Image: Constraint of the sector of	MW103 MW104 MW105 MW105 MW105 MW105 QAQC7 6 2 2 4 6	MW103 MW104 MW105 MW105 MW105 QAQC7 6 2 2 4 6	Image: series of the series	MW103MW104MW105MW105MW105QAQC7Image: section of the sect



Client Project Name: Shell Welwyn Garden

					-				
Lab Sample ID	22/00840/22	22/00840/23	22/00840/24	22/00840/25	22/00840/26	22/00840/27			
Client Sample No									
Client Sample ID	MW103	MW104	MW105	MW105	MW105	QAQC7			
Depth to Top	6	2	2	4	6				
Depth To Bottom								ion	
Date Sampled	27-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22		etect	if
Sample Type	Soil - ES	~	Limit of Detection	Method ref					
Sample Matrix Code					5A		Units	Limi	Meth
TPH CWG with Clean Up *C1									
Ali >C5-C6 _A #	-	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A #	-	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	-	-	-	-	<1	-	 mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	-	-	-	-	<1	-	 mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	-	-	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	-	-	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C21-C35 ^{AM#}	-	-	-	-	2	-	mg/kg	1	A-T-055s
Total Aliphatics _A	-	-	-	-	2	-	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	-	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	-	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	-	-	-	-	<5	-	mg/kg	1	A-T-055s
Aro >C10-C12 _A	-	-	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C12-C16 _A	-	-	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	-	-	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C21-C35 _A	-	-	-	-	<1	-	mg/kg	1	A-T-055s
Total Aromatics _A	-	-	-	-	<5	-	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	-	-	-	-	<5	-	 mg/kg	1	A-T-055s
BTEX - Benzene₄ [#]	-	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - Toluene _A #	-	-	-	-	<0.01	-	 mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A #	-	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A #	-	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A #	-	-	-	-	<0.01	-	mg/kg	0.01	A-T-022s
MTBE _A #	-	-	-	-	<0.01	-	 mg/kg	0.01	A-T-022s



REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis. US indicates Unsuitable Sample for analysis. NDP indicates No Determination Possible. NAD indicates No Asbestos Detected. N/A indicates Not Applicable. Superscript # indicates method accredited to ISO 17025. Superscript "M" indicates method accredited to MCERTS. Subscript "A" indicates analysis performed on the sample as received. Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve EPH CWG results have humics mathematically subtracted through instrument calculation TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these

humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.



Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	RSK Environment Ltd Hemel, 18 Frogmore Road, Hemel Hempstead,
	Hertfordshire, UK, HP3 9RT

Project: Shell Welwyn Garden Clients Project No: 1922098

Lab Sample ID	22/00840/4	22/00840/13	22/00840/14
Client Sample No			
Client Sample ID/Depth	MW102 1.00m	VP01 0.3m	VP01 1.7m
Date Sampled	19/01/22	19/01/22	19/01/22
Deviation Code			
F	~	\checkmark	~

Key F

Maximum holding time exceeded between sampling date and analysis for analytes listed below

HOLDING TIME EXCEEDANCES

Lab Sample ID	22/00840/4	22/00840/13	22/00840/14
Client Sample No			
Client Sample ID/Depth	MW102 1.00m	VP01 0.3m	VP01 1.7m
Date Sampled	19/01/22	19/01/22	19/01/22
VPHCWG	\checkmark	✓	✓
PAH-16MS	~	✓	✓
Hexane (n-Hexane)	~	✓	✓
2-Methylnaphthalene	~	✓	✓
VOC	\checkmark	~	~

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples 5 ± 3°C), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Project No:	22/00840
Date Received:	01/02/2022 (am)
Cool Box Temperatures (°C):	6.1



Envirolab Analysis Dates

Lab Sample ID	22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12
Client Sample No												
Client Sample ID/Depth	MW101 1.6m	MW101 3.8m	MW101 4.9m	MW102 1.00m	MW103 1.50m	MW103 3.00m	MW103 5.00m	MW104 0.70m	MW104 3.00m	MW105 1m	MW105 3m	MW105 5m
Date Sampled	25/01/22	25/01/22	25/01/22	19/01/22	20/01/22	27/01/22	27/01/22	26/01/22	26/01/22	26/01/22	26/01/22	26/01/22
A-T-004s						09/02/2022				11/02/2022	09/02/2022	
A-T-006s	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022
A-T-007s		08/02/2022				09/02/2022					09/02/2022	
A-T-019s	08/02/2022	08/02/2022	08/02/2022	08/02/2022	08/02/2022	08/02/2022	08/02/2022	08/02/2022	08/02/2022	08/02/2022	08/02/2022	08/02/2022
A-T-022s	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022
A-T-024s	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022
A-T-025w						16/02/2022					16/02/2022	
A-T-026w						16/02/2022					16/02/2022	
A-T-027s	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022
A-T-030s						15/02/2022					15/02/2022	
A-T-031s						16/02/2022					16/02/2022	
A-T-031w						16/02/2022					16/02/2022	
A-T-032 FOC		15/02/2022										
A-T-032s						15/02/2022					15/02/2022	
A-T-032w						16/02/2022					16/02/2022	
A-T-037w						16/02/2022					16/02/2022	
A-T-044	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022	16/02/2022
A-T-045	02/02/2022			02/02/2022	02/02/2022	02/02/2022		02/02/2022		03/02/2022	03/02/2022	
A-T-050w						16/02/2022					16/02/2022	
A-T-052s	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022
A-T-054				08/02/2022								
A-T-055s	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022
A-T-ANCs						16/02/2022					16/02/2022	
Calc						02/02/2022					02/02/2022	
Calc-no stones						16/02/2022					16/02/2022	
Probe (w)						16/02/2022					16/02/2022	



Lab Sample ID	22/00840/13	22/00840/14	22/00840/15	22/00840/16	22/00840/17	22/00840/18	22/00840/19	22/00840/20	22/00840/21	22/00840/22	22/00840/23	22/00840/24
Client Sample No												
Client Sample ID/Depth	VP01 0.3m	VP01 1.7m	QAQC01	SKIP	MW101 2.5m	MW101 6m	MW103 0.5m	MW103 2.5m	MW103 3.8m	MW103 6m	MW104 2m	MW105 2m
Date Sampled	19/01/22	19/01/22	25/01/22	27/01/22	25/01/22	25/01/22	20/01/22	27/01/22	27/01/22	27/01/22	26/01/22	26/01/22
A-T-004s				09/02/2022								
A-T-006s	07/02/2022	07/02/2022	07/02/2022									
A-T-007s				09/02/2022								
A-T-019s	08/02/2022	09/02/2022	08/02/2022	08/02/2022								
A-T-022s	16/02/2022	16/02/2022	16/02/2022	07/02/2022								
A-T-024s	16/02/2022	16/02/2022	16/02/2022									
A-T-025w				16/02/2022								
A-T-026w				16/02/2022								
A-T-027s	16/02/2022	16/02/2022	16/02/2022									
A-T-030s				15/02/2022								
A-T-031s				16/02/2022								
A-T-031w				16/02/2022								
A-T-032 FOC												
A-T-032s				15/02/2022								
A-T-032w				16/02/2022								
A-T-037w				16/02/2022								
A-T-044	16/02/2022	16/02/2022	16/02/2022	16/02/2022								
A-T-045	03/02/2022	03/02/2022	03/02/2022	03/02/2022								
A-T-050w				16/02/2022								
A-T-052s	07/02/2022	08/02/2022	07/02/2022									
A-T-054												
A-T-055s	07/02/2022	09/02/2022	07/02/2022									
A-T-ANCs				16/02/2022								
Calc				02/02/2022								
Calc-no stones				16/02/2022								
Probe (w)				16/02/2022								



Lab Sample ID	22/00840/25	22/00840/26	22/00840/27
Client Sample No			
Client Sample ID/Depth	MW105 4m	MW105 6m	QAQC7
Date Sampled	26/01/22	26/01/22	26/01/22
A-T-004s			
A-T-006s		07/02/2022	
A-T-007s			
A-T-019s		08/02/2022	
A-T-022s		16/02/2022	
A-T-024s		16/02/2022	
A-T-025w			
A-T-026w			
A-T-027s		16/02/2022	
A-T-030s			
A-T-031s			
A-T-031w			
A-T-032 FOC			
A-T-032s			
A-T-032w			
A-T-037w			
A-T-044		16/02/2022	
A-T-045			
A-T-050w			
A-T-052s		07/02/2022	
A-T-054			
A-T-055s		07/02/2022	
A-T-ANCs			
Calc			
Calc-no stones			
Probe (w)			

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report



Mottram Road, Hyde, Cheshire, SK14 3AR

Final Test Report SUPPLEMENT TO TEST REPORT 22/00840/1

Envirolab Job Number: Issue Number:	22/00840 2	Date:	22-Mar-22
Client:	RSK Environment Ltd Hemel 18 Frogmore Road Hemel Hempstead Hertfordshire UK HP3 9RT		
Project Manager: Project Name: Project Ref: Order No:	Johanna Houlahan/Rhys Jones/William (Shell Welwyn Garden 1922098 N/A	Cook	
Date Samples Received: Date Instructions Received: Date Analysis Completed:	31-Jan-22 1-Feb-22 17-Feb-22		

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones. B = contains construction rubble. C = contains visible hydrocarbons. D = contains glass/metal. E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation. Please contact us if you need any further information

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:

Fance

Sophie France **Client Service Manager**



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

	Sa	Imp	le D	etails						
Lab Sample ID	Method	ISO17025	MCERTS	22/00840/6	3			Landfill Wa	aste Acceptance Cri	teria Limits
Client Sample Number										
Client Sample ID				MW103				1		
Depth to Top				3					Stable Non-reactive	lla-andarra Waata
Depth to Bottom	1							Inert Waste Landfill	Hazardous Waste in Non-Hazardous	Hazardous Waste Landfill
Date Sampled				27/01/2022	2				Landfill	Landini
Sample Type				Soil - ES						
Sample Matrix Code				5A						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	Ν	Ν	7.24				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	Ν	Ν	<0.01				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	Ν	Ν	<0.01				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	Ν	Ν	2.9				-	-	10
Total Organic Carbon (%)D	A-T-032	Ν	Ν	0.07				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	Ν	Ν	<0.08				100	-	-
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	<10				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
				2:1	8:1	2:1	Cumulative		for compliance leaching	na test usina
Eluate Analysis					g/l		10:1 /kg		12457-3 at L/S 10 l/kg (
Arsenic	A-T-025	Ν	Ν	< 0.001	< 0.001	< 0.002	<0.01	0.5	2	25
Barium	A-T-025	N	Ν	0.018	0.013	0.039	0.140	20	100	300
Cadmium	A-T-025			< 0.001	< 0.001	< 0.002	<0.01	0.04	1	5
Chromium	A-T-025	Ν	Ν	0.002	< 0.001	0.004	<0.01	0.5	10	70
Copper	A-T-025	-	Ν	0.002	0.001	0.004	0.010	2	50	100
		-	Ν	< 0.0005	< 0.0005	< 0.001	<0.005	0.01	0.2	2
Mercury	A-T-025	I N								
Mercury Molybdenum	A-T-025 A-T-025	N N	Ν	< 0.001	< 0.001	< 0.002	<0.01	0.5	10	30
-		Ν		<0.001 0.002	<0.001 <0.001	<0.002 0.004	<0.01 <0.01	0.5 0.4	10 10	30 40
Molybdenum	A-T-025	Ν	Ν							
Molybdenum Nickel	A-T-025 A-T-025	N N	N N	0.002	<0.001	0.004	<0.01	0.4	10	40
Molybdenum Nickel Lead	A-T-025 A-T-025 A-T-025	N N N	N N N	0.002 0.005	<0.001 0.004	0.004 0.011	<0.01 0.040	0.4 0.5	10 10	40 50
Molybdenum Nickel Lead Antimony	A-T-025 A-T-025 A-T-025 A-T-025	N N N	N N N	0.002 0.005 <0.001	<0.001 0.004 0.002	0.004 0.011 <0.002	<0.01 0.040 <0.01	0.4 0.5 0.06	10 10 0.7	40 50 5
Molybdenum Nickel Lead Antimony Selenium	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025	N N N N	N N N N	0.002 0.005 <0.001 <0.001	<0.001 0.004 0.002 <0.001	0.004 0.011 <0.002 <0.002	<0.01 0.040 <0.01 <0.01	0.4 0.5 0.06 0.1	10 10 0.7 0.5	40 50 5 7
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025	N N N N N N	N N N N N	0.002 0.005 <0.001 <0.001 0.017	<0.001 0.004 0.002 <0.001 0.012	0.004 0.011 <0.002 <0.002 0.037	<0.01 0.040 <0.01 <0.01 0.130	0.4 0.5 0.06 0.1 4	10 10 0.7 0.5 50	40 50 5 7 200
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026	N N N N N N N N	N N N N N N	0.002 0.005 <0.001 <0.001 0.017 4	<0.001 0.004 0.002 <0.001 0.012 14	0.004 0.011 <0.002 <0.002 0.037 10	<0.01 0.040 <0.01 <0.01 0.130 129	0.4 0.5 0.06 0.1 4 800	10 10 0.7 0.5 50 15000	40 50 5 7 200 25000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026	N N N N N N N N N N N N N N N	N N N N N N N N N N N	0.002 0.005 <0.001 <0.001 0.017 4 <0.10	<0.001 0.004 0.002 <0.001 0.012 14 0.1	0.004 0.011 <0.002 <0.002 0.037 10 <0.2	<0.01 0.040 <0.01 <0.01 0.130 129 <1	0.4 0.5 0.06 0.1 4 800 10	10 10 0.7 0.5 50 15000 150	40 50 7 200 25000 500
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026	N N N N N N N N N	N N N N N N N N N	0.002 0.005 <0.001 <0.001 0.017 4 <0.10 2	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-035	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N	0.002 0.005 <0.001 0.017 4 <0.10 2 <20	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66	0.004 0.011 <0.002 0.037 10 <0.2 3 <40	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200	0.4 0.5 0.06 0.1 4 800 10 1000 4000	10 10 0.7 0.5 50 15000 150 20000	40 50 7 200 25000 500 5000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-035 A-T-050	N N N N N N N N N	N N N N N N N N N	0.002 0.005 <0.001 0.017 4 <0.10 2 <20 <0.01	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66 <0.01	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3 <40 <0.02	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200 <0.1	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-035 A-T-050	N N N N N N N N N N N	N N N N N N N N N	0.002 0.005 <0.001 <0.001 0.017 4 <0.10 2 <20 <0.01 <20.0	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66 <0.01	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3 <40 <0.02	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200 <0.1	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-035 A-T-050 A-T-032	N N N N N N N N N N N N	N N N N N N N N N	0.002 0.005 <0.001 <0.001 0.017 4 <0.10 2 <20 <0.01 <20.0 <0.01 <20.0	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66 <0.01 104.00	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3 <40 <0.02	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200 <0.1	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (µS/cm)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-035 A-T-050 A-T-032 A-T-031	N N N N N N N N N N N N	N N N N N N N N N	0.002 0.005 <0.001 <0.001 0.017 4 <0.10 2 <20 <0.01 <20.0 <0.01 <20.0	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66 <0.01 104.00 8.1	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3 <40 <0.02	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200 <0.1	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (μS/cm) Mass Sample (kg)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-035 A-T-050 A-T-032 A-T-031	N N N N N N N N N N N N		0.002 0.005 <0.001 <0.001 0.017 4 <0.10 2 <20 <0.01 <20.0 8.8 38	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66 <0.01 104.00 8.1	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3 <40 <0.02	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200 <0.1	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (µS/cm) Mass Sample (kg) Dry Matter (%) Stage 1	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-035 A-T-030 A-T-037 A-T-031 A-T-037	N N N N N N N N N N N N N N N N N N N		0.002 0.005 <0.001 <0.001 0.017 4 <0.10 2 <20 <0.01 <20.0 8.8 38 0.208	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66 <0.01 104.00 8.1	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3 <40 <0.02	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200 <0.1	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (µS/cm) Mass Sample (kg) Dry Matter (%) Stage 1 Volume Leachant, L ₂ (I)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-035 A-T-030 A-T-037 A-T-031 A-T-037			0.002 0.005 <0.001 <0.001 0.017 4 <0.10 2 <20 <0.01 <20.0 8.8 38 0.208	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66 <0.01 104.00 8.1	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3 <40 <0.02	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200 <0.1	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (µS/cm) Mass Sample (kg) Dry Matter (%) Stage 1 Volume Leachant, L ₂ (I) Filtered Eluate Volume, VE ₁ (I)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-035 A-T-031 A-T-031 A-T-037 A-T-044			0.002 0.005 <0.001 <0.001 0.017 4 <0.10 2 <20 <0.01 <20.0 8.8 38 0.208 84.2	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66 <0.01 104.00 8.1	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3 <40 <0.02	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200 <0.1	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000
Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (µS/cm) Mass Sample (kg) Dry Matter (%) Stage 1 Volume Leachant, L ₂ (I)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-035 A-T-030 A-T-037 A-T-037 A-T-037 A-T-044 A-T-044			0.002 0.005 <0.001 <0.001 0.017 4 <0.10 2 <20 <0.01 <20.0 8.8 38 0.208 84.2 0.350	<0.001 0.004 0.002 <0.001 0.012 14 0.1 11 66 <0.01 104.00 8.1	0.004 0.011 <0.002 <0.002 0.037 10 <0.2 3 <40 <0.02	<0.01 0.040 <0.01 <0.01 0.130 129 <1 101 <200 <0.1	0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	40 50 5 7 200 25000 500 5000 100000



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

	Sa		le D	etails						
Lab Sample ID	Method	ISO17025	MCERTS	22/00840/1	1			Landfill Wa	aste Acceptance Cri	eria Limits
Client Sample Number										
Client Sample ID				MW105				1	Stable Non-reactive	
Depth to Top				3				1		
Depth to Bottom								Inert Waste Landfill	Hazardous Waste Landfill	
Date Sampled				26/01/2022	2				Landini	
Sample Type				Soil - ES						
Sample Matrix Code				4A						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	Ν	Ν	7.81				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	Ν	Ν	<0.01				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	Ν	Ν	<0.01				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	Ν	Ν	1.3				-	-	10
Total Organic Carbon (%) _D	A-T-032	Ν	Ν	<0.03				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	Ν	Ν	<0.08				100	-	-
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	<10			1	500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values	for compliance leaching	ng test using
Liude Analysis				m	g/l	mg	/kg	BS EN	12457-3 at L/S 10 l/kg (mg/kg)
Arsenic	A-T-025	Ν	Ν	< 0.001	< 0.001	< 0.002	<0.01	0.5	2	25
Barium	A-T-025	Ν	Ν	0.018	0.017	0.038	0.170	20	100	300
Cadmium	A-T-025	Ν	Ν	< 0.001	< 0.001	< 0.002	<0.01	0.04	1	5
Chromium	A-T-025	Ν	Ν	< 0.001	0.001	< 0.002	<0.01	0.5	10	70
Copper	A-T-025	Ν	Ν	0.003	0.002	0.006	0.020	2	50	100
Mercury	A-T-025	Ν	Ν	< 0.0005	< 0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	Ν	Ν	0.001	0.004	0.002	0.040	0.5	10	30
Nickel	A-T-025	Ν	Ν	<0.001	<0.001	<0.002	<0.01	0.4	10	40
Lead	A-T-025	Ν	Ν	0.010	0.003	0.021	0.040	0.5	10	50
Antimony	A-T-025	Ν	Ν	<0.001	0.002	<0.002	<0.01	0.06	0.7	5
Selenium	A-T-025	Ν	Ν	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	Ν	Ν	0.016	0.007	0.034	0.080	4	50	200
Chloride	A-T-026	Ν	Ν	4	3	8	35	800	15000	25000
Fluoride	A-T-026	Ν	Ν	<0.10	1.0	<0.2	<1	10	150	500
Sulphate as SO ₄	A-T-026	Ν	Ν	2	14	4	131	1000	20000	50000
Total Dissolved Solids	A-T-035	Ν	Ν	<20	53	<40	<200	4000	60000	100000
Phenol Index	A-T-050	Ν	Ν	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	Ν	Ν	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information	-									
pH (pH Units)	A-T-031		Ν	8.7	8.0					
Conductivity (µS/cm)	A-T-037	Ν	Ν	33	107					
Mass Sample (kg)				0.195						
Dry Matter (%)	A-T-044	Ν	Ν	89.5						
Stage 1										
Volume Leachant, L ₂ (I)	A-T-046			0.350						
Filtered Eluate Volume, VE1 (I)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (I)	A-T-046			1.400						



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	Sa	mp	le D	etails						
Lab Sample ID	Method	ISO17025	MCERTS	22/00840/1	6			Landfill Wa	aste Acceptance Cri	teria Limits
Client Sample Number										
Client Sample ID				SKIP						
Depth to Top									Stable Non-reactive	11
Depth to Bottom								Inert Waste Landfill	Hazardous Waste in Non-Hazardous	Hazardous Waste Landfill
Date Sampled				27/01/2022	2				Lanum	
Sample Type				Soil - ES						
Sample Matrix Code				6A						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	Ν	Ν	8.05				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	Ν	Ν	0.02				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	Ν	Ν	0.02				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	Ν	Ν	2.3				-	-	10
Total Organic Carbon (%) _D	A-T-032	Ν	Ν	0.04				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	Ν	Ν	<0.08				100	-	-
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	<10				500	-	-
Sum of 7 PCBs $(mg/kg)_A$	A-T-004	N	N	<0.007	-			1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.001				6	-	-
	A-1-022			2:1	8:1	2:1	Cumulative	-	for compliance leachi	na test usina
Eluate Analysis					g/l		10:1 /kg		12457-3 at L/S 10 l/kg (
Arsenic	A-T-025	Ν	Ν	0.001	<0.001	0.002	<0.01	0.5	2	25
Barium	A-T-025	N	N	0.019	0.025	0.041	0.250	20	100	300
Cadmium	A-T-025	Ν	Ν	< 0.001	< 0.001	< 0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.002	0.003	0.004	0.030	0.5	10	70
Copper	A-T-025	N	Ν	0.003	0.001	0.006	0.010	2	50	100
			_		< 0.0005	< 0.001	<0.005	0.01	0.2	2
	A-T-025	N	I N	< 0.0005	<0.0005	<0.001		0.01	0.2	
Mercury Molybdenum	A-T-025 A-T-025	N N	N N	<0.0005 <0.001				0.5	10	30
Mercury		Ν	Ν	<0.001	0.001	<0.002	<0.01			
Mercury Molybdenum	A-T-025	N N	_	<0.001 0.001	0.001 0.001	<0.002 0.002	<0.01 0.010	0.5	10	30
Mercury Molybdenum Nickel	A-T-025 A-T-025	Ν	N N	<0.001	0.001	<0.002	<0.01	0.5 0.4	10 10	30 40
Mercury Molybdenum Nickel Lead	A-T-025 A-T-025 A-T-025	N N N	N N N	<0.001 0.001 0.012	0.001 0.001 0.002	<0.002 0.002 0.026	<0.01 0.010 0.030	0.5 0.4 0.5	10 10 10	30 40 50
Mercury Molybdenum Nickel Lead Antimony	A-T-025 A-T-025 A-T-025 A-T-025	N N N	N N N	<0.001 0.001 0.012 <0.001	0.001 0.001 0.002 0.002	<0.002 0.002 0.026 <0.002	<0.01 0.010 0.030 <0.01	0.5 0.4 0.5 0.06	10 10 10 0.7	30 40 50 5
Mercury Molybdenum Nickel Lead Antimony Selenium	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025	N N N N N	N N N N	<0.001 0.001 0.012 <0.001 <0.001	0.001 0.001 0.002 0.002 <0.001	<0.002 0.002 0.026 <0.002 <0.002	<0.01 0.010 0.030 <0.01 <0.01	0.5 0.4 0.5 0.06 0.1	10 10 10 0.7 0.5	30 40 50 5 7
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025	N N N N N	N N N N N	<0.001 0.001 0.012 <0.001 <0.001 0.014	0.001 0.001 0.002 0.002 <0.001 0.010	<0.002 0.002 0.026 <0.002 <0.002 0.030	<0.01 0.010 0.030 <0.01 <0.01 0.110	0.5 0.4 0.5 0.06 0.1 4	10 10 10 0.7 0.5 50	30 40 50 5 7 200
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026	N N N N N N N	N N N N N N N	<0.001 0.001 0.012 <0.001 <0.001 0.014 4	0.001 0.001 0.002 0.002 <0.001 0.010 4	<0.002 0.002 0.026 <0.002 <0.002 0.030 8	<0.01 0.010 0.030 <0.01 <0.01 0.110 41	0.5 0.4 0.5 0.06 0.1 4 800	10 10 10 0.7 0.5 50 15000	30 40 50 5 7 200 25000
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	<0.001 0.001 <0.001 <0.001 <0.001 0.014 4 0.8	0.001 0.001 0.002 <0.001 0.010 4 0.6	<0.002 0.002 0.026 <0.002 <0.002 0.030 8 1.7	<0.01 0.010 0.030 <0.01 <0.01 0.110 41 6.0	0.5 0.4 0.5 0.06 0.1 4 800 10	10 10 0.7 0.5 50 15000 150	30 40 50 5 7 200 25000 500
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026			<0.001 0.001 0.012 <0.001 0.014 4 0.8 3	0.001 0.002 0.002 <0.001 0.010 4 0.6 14	<0.002 0.002 0.026 <0.002 0.030 8 1.7 6	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127	0.5 0.4 0.5 0.06 0.1 4 800 10 1000	10 10 0.7 0.5 50 15000 150 20000	30 40 50 5 7 200 25000 500 5000
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-035		N N N N N N N	<0.001 0.001 0.012 <0.001 0.014 4 0.8 3 <20	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63	<0.002 0.002 <0.002 <0.002 0.030 8 1.7 6 <40	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000	10 10 0.7 0.5 50 15000 150 20000	30 40 50 5 7 200 25000 500 5000
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-035 A-T-050	N N N N N N N N N	N N N N N N N N	<0.001 0.001 0.012 <0.001 <0.001 0.014 4 0.8 3 <20 <0.01	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63 <0.01	<0.002 0.002 0.026 <0.002 0.002 0.030 8 1.7 6 <40 <0.02	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200 <0.1	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	30 40 50 5 7 200 25000 500 5000 100000
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-035 A-T-050	N N N N N N N N N N	N N N N N N N N	<0.001 0.001 0.012 <0.001 <0.001 0.014 4 0.8 3 <20 <0.01	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63 <0.01	<0.002 0.002 0.026 <0.002 0.002 0.030 8 1.7 6 <40 <0.02	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200 <0.1	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	30 40 50 5 7 200 25000 500 5000 100000
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-035 A-T-050 A-T-032	N N N N N N N N N N N	N N N N N N N N N N N N N	<0.001 0.001 0.012 <0.001 <0.001 0.014 4 0.8 3 <20 <0.01 <20.0 8.5	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63 <0.01 24.80	<0.002 0.002 0.026 <0.002 0.002 0.030 8 1.7 6 <40 <0.02	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200 <0.1	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	30 40 50 5 7 200 25000 500 5000 100000
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-035 A-T-030 A-T-032 A-T-031	N N N N N N N N N N N	N N N N N N N N N N N N N	<0.001 0.001 0.012 <0.001 <0.001 0.014 4 0.8 3 <20 <0.01 <20.0 8.5	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63 <0.01 24.80 7.9	<0.002 0.002 0.026 <0.002 0.002 0.030 8 1.7 6 <40 <0.02	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200 <0.1	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	30 40 50 5 7 200 25000 500 5000 100000 -
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (µS/cm)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-035 A-T-030 A-T-032 A-T-031			<0.001 0.001 0.012 <0.001 0.014 4 0.8 3 <20 <0.01 <20.0 8.5 38	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63 <0.01 24.80 7.9	<0.002 0.002 0.026 <0.002 0.002 0.030 8 1.7 6 <40 <0.02	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200 <0.1	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	30 40 50 5 7 200 25000 500 5000 100000 -
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (µS/cm)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-036 A-T-030 A-T-032 A-T-031 A-T-037			<0.001 0.001 0.012 <0.001 0.014 4 0.8 3 <20 <0.01 <20.0 8.5 38 0.199	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63 <0.01 24.80 7.9	<0.002 0.002 0.026 <0.002 0.002 0.030 8 1.7 6 <40 <0.02	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200 <0.1	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	30 40 50 5 7 200 25000 500 5000 100000 -
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (μS/cm) Mass Sample (kg) Dry Matter (%) Stage 1 Volume Leachant, L ₂ (I)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-036 A-T-030 A-T-032 A-T-031 A-T-037			<0.001 0.001 0.012 <0.001 0.014 4 0.8 3 <20 <0.01 <20.0 8.5 38 0.199	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63 <0.01 24.80 7.9	<0.002 0.002 0.026 <0.002 0.002 0.030 8 1.7 6 <40 <0.02	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200 <0.1	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	30 40 50 5 7 200 25000 500 5000 100000 -
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (µS/cm) Mass Sample (kg) Dry Matter (%) Stage 1	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-032 A-T-030 A-T-032 A-T-031 A-T-031 A-T-044			<0.001 0.001 0.012 <0.001 0.014 4 0.8 3 <20 <0.01 <20.0 8.5 38 0.199 88.1	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63 <0.01 24.80 7.9	<0.002 0.002 0.026 <0.002 0.002 0.030 8 1.7 6 <40 <0.02	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200 <0.1	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	30 40 50 5 7 200 25000 500 5000 100000 -
Mercury Molybdenum Nickel Lead Antimony Selenium Zinc Chloride Fluoride Sulphate as SO ₄ Total Dissolved Solids Phenol Index Dissolved Organic Carbon Leach Test Information pH (pH Units) Conductivity (μS/cm) Mass Sample (kg) Dry Matter (%) Stage 1 Volume Leachant, L ₂ (I)	A-T-025 A-T-025 A-T-025 A-T-025 A-T-025 A-T-026 A-T-026 A-T-026 A-T-026 A-T-032 A-T-030 A-T-032 A-T-031 A-T-037 A-T-044 A-T-044			<0.001 0.001 0.012 <0.001 0.014 4 0.8 3 <20 <0.01 <20.0 8.5 38 0.199 88.1 0.350	0.001 0.002 0.002 <0.001 0.010 4 0.6 14 63 <0.01 24.80 7.9	<0.002 0.002 0.026 <0.002 0.002 0.030 8 1.7 6 <40 <0.02	<0.01 0.010 0.030 <0.01 0.110 41 6.0 127 <200 <0.1	0.5 0.4 0.5 0.06 0.1 4 800 10 1000 4000 1	10 10 0.7 0.5 50 15000 150 20000 60000	30 40 50 5 7 200 25000 500 5000 100000 -



FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: Issue Number: 22/00826 1

Date: 07 February, 2022

Client:

RSK Environment Ltd Hemel 18 Frogmore Road Hemel Hempstead Hertfordshire UK HP3 9RT

Project Manager:	Johanna Houlahan
Project Name:	Shell Welwyn Garden
Project Ref:	1922098
Order No:	N/A
Date Samples Received:	27/01/22
Date Instructions Received:	31/01/22
Date Analysis Completed:	07/02/22

Approved by:

rance

Sophie France Client Service Manager



Page 1 of 6



Envirolab Job Number: 22/00826

Client Project Name: Shell Welwyn Garden

Client Project Ref: 1922098

Lab Sample ID	22/00826/1	22/00826/2	22/00826/3	22/00826/4	22/00826/5	22/00826/6			
Client Sample No									
Client Sample ID	QAQC03	QAQC04	QAQC05	QAQC06	QAQC08	QAQC02			
Depth to Top									
Depth To Bottom								tion	
Date Sampled	25-Jan-22	24-Jan-22	25-Jan-22	26-Jan-22	27-Jan-22	27-Jan-22		Limit of Detection	ef
Sample Type	Water - EW	Ś	t of D	Method ref					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	Units	Limi	Meth
Ali >C5-C6 (w)₄ [#]	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A #	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C5-C7 (w) _A [#]	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A #	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Benzene (w) _A #	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A #	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A #	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A #	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) [#]	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w



Envirolab Job Number: 22/00826

Client Project Name: Shell Welwyn Garden

Client Project Ref: 1922098

Lab Sample ID	22/00826/1	22/00826/2	22/00826/3	22/00826/4	22/00826/5	22/00826/6			
Client Sample No									
Client Sample ID	QAQC03	QAQC04	QAQC05	QAQC06	QAQC08	QAQC02			
Depth to Top									
Depth To Bottom								tion	
Date Sampled	25-Jan-22	24-Jan-22	25-Jan-22	26-Jan-22	27-Jan-22	27-Jan-22		eteci	ef
Sample Type	Water - EW	s	Limit of Detection	Method ref					
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	Units	Limi	Meth
TPH CWG (w) with Clean Up *C1									
Ali >C8-C10 (w) _A #	<5	<5	<5	<5	<5	-	µg/l	5	A-T-055w
Ali >C10-C12 (w)₄ [#]	<5	<5	<5	<5	<5	-	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	26	<5	-	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A #	<5	6	<5	<5	<5	-	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A #	<5	<5	<5	27	<5	-	µg/l	5	A-T-055w
Total Aliphatics (w) _A #	<5	6	<5	53	<5	-	µg/l	5	A-T-055w
Aro >C8-C10 (w) _A	<10	<10	<10	14	<10	-	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A #	<5	<5	<5	10	<5	-	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A #	<5	<5	5	76	<5	-	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A #	<5	<5	8	71	<5	-	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A	<10	<10	<10	<10	<10	-	µg/l	10	A-T-055w
Total Aromatics (w) _A	<10	<10	13	171	<10	-	µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w)A	<10	<10	13	224	<10	-	µg/l	10	A-T-055w



REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis. US indicates Unsuitable Sample for analysis. NDP indicates No Determination Possible. NAD indicates No Asbestos Detected. N/A indicates Not Applicable. Superscript # indicates method accredited to ISO 17025. Superscript "M" indicates method accredited to MCERTS. Subscript "A" indicates analysis performed on the sample as received. Subscript "D" indicates results performed on the dried sample, crushed to pass a 2mm sieve TPH CWG *C2 indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG with Clean Up ct

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these

humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

v2



Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	RSK Environment Ltd Hemel, 18 Frogmore Road, Hemel Hempstead,	Project No:	22/00826
	Hertfordshire, UK, HP3 9RT	Date Received:	31/01/2022 (am)
Project: Clients Project No	Shell Welwyn Garden : 1922098	Cool Box Temperatures (°C): 6.1 & 6.7

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.



Envirolab Analysis Dates

Lab Sample ID	22/00826/1	22/00826/2	22/00826/3	22/00826/4	22/00826/5	22/00826/6
Client Sample No						
Client Sample ID/Depth	QAQC03	QAQC04	QAQC05	QAQC06	QAQC08	QAQC02
Date Sampled	25/01/22	24/01/22	25/01/22	26/01/22	27/01/22	27/01/22
A-T-022w	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022
A-T-055w	07/02/2022	07/02/2022	07/02/2022	07/02/2022	07/02/2022	

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report



APPENDIX K GEOTECHNICAL SPT RESULTS

Table K1: SPT results

Monitoring well	Depth (m bgl)	Strata	SPT 'n' value
	1.5	Made Ground	1, 1, 1, 1, 1, 1 = 4
MW101	3.0	Slightly Sandy Silt	3, 3, 4, 4, 3, 3 = 14
	4.5	Gravelly Sandy Clay	3, 5, 5, 4, 5, 6 = 20
	6.0	Slightly Sandy Gravelly Clay	2, 3, 4, 5, 4, 6 = 19
	1.5	Made Ground	6, 8, 11, 10, 10, 9 = 40
MW105	3.0	Slightly Clayey Gravelly Sand	1, 2, 4, 5, 4, 4 = 17
	4.5	Gravelly Sandy Silt	2, 2, 4, 6, 6, 5 = 21
	6.0	Slightly Clayey Sand	1, 3, 5, 5, 4, 6 = 20



APPENDIX L ANALYTICAL RESULTS SUMMARIES



Table L1: Soil analytical results summary – selected retail petroleum COPC

COPC	Location	MW101	MW101	MW101	MW102	MW103	MW103	MW103	MW104	MW104	MW105	MW105	MW105	MW105	VP01	VP01	GAC *
mg/kg unless stated	Depth (m)	1.6	3.8	4.9	1.00	1.50	3.00	5.00	0.70	3.00	1.0	3.0	5.0	6.0	0.3	1.7	 mg/kg unless stated
Aliphatic >C5-C6	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	600
Aliphatic >C6-C8		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1500
Aliphatic >C8-C10		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	400
Aliphatic >C10-C12	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1900
Aliphatic >C12-C16	6	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	15000
Aliphatic >C16-C21	1	<1	<1	<1	11	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Aliphatic >C21-C35	ō	1	<1	<1	129	<1	<1	<1	3	<1	24	<1	4	2	5	2	-
Aromatic >C5-C7		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
Aromatic >C7-C8		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
Aromatic >C8-C10		<5	<5	<5	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	63	700
Aromatic >C10-C12	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4000
Aromatic >C12-C16	6	<1	<1	<1	4	<1	<1	<1	<1	<1	5	<1	<1	<1	<1	<1	26000
Aromatic >C16-C21	1	<1	<1	<1	37	<1	<1	<1	<1	<1	4	<1	<1	<1	<1	<1	27000
Aromatic >C21-C35	5	<1	<1	<1	173	<1	<1	<1	3	<1	28	<1	<1	<1	4	1	28000
TPH (C5-C35)		<5	<5	<5	363	<5	<5	<5	5	<5	60	<5	<5	<5	9	66	-
BTEX - Benzene		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	5
BTEX - Toluene		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	13000
BTEX - Ethyl Benze	ene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1000
BTEX - o Xylene		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1400
BTEX - m & p Xyle	ene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1300
MTBE		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1500
TAME		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
DIPE		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
ETBE		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
ТВА		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
n-Hexane		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
Ethanol (µg/kg)		<100	<100	<100	1030	<100	<100	131	177	<100	148	<100	137	<100	<100	<100	-
1,2-Dichloroethane	e (µg/kg)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.13
1,2-Dibromoethane	e (µg/kg)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
2-methylnaphthaler	ne (µg/kg)	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
PAH – naphthalene)	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	0.09	< 0.03	< 0.03	<0.03	< 0.03	<0.03	400
Total PAH (16)		<0.08	<0.08	<0.08	32.1	<0.08	<0.08	<0.08	0.38	<0.08	6.19	<0.08	<0.08	<0.08	<0.08	0.82	-
Notes: NA = Not Anal GAC* = Human health	•	nued oil scenario	since at SOM 19	6 the GACs for	certain COPC we	ere generally low	er than the LMD	L.									

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Table L2: Soil analytical results summary – selected non-retail petroleum COPC, including comparison with applicable GAC

COPC mg/kg	Location	MW101	MW101	MW102	VP01	VP01	MW105	GAC
unless stated	Depth (m)	1.6	3.8	1.00	0.3	1.7	1.0	mg/kg unless stated
Carbon tetrachlor	ide	<1	<1	<1	<1	<1	NA	0.6
Dichloromethane		<5	<5	<5	<5	<5	NA	-
1,1,1-Trichloroeth	ane	<1	<1	<1	<1	<1	NA	100
Trichloroethene		<1	<1	<1	<1	<1	NA	0.15
Tetrachloroethene	9	<1	<1	<1	<1	<1	NA	5.2
Vinyl chloride		<1	<1	<1	<1	<1	NA	0.21
PCBs		NA	NA	NA	NA	NA	<0.007	-

Human health GACs for a continued oil scenario since at SOM 1% the GACs for certain COPC were generally lower than the LMDL.

Table L3: Potable water analytical results summary $(\mu g/I)$ – selected retail petroleum COPC, including comparison with applicable GAC

COPC - μg/l unless stated	Potable water sample – TAP1	UK Drinking Water Standard (DWS)
Aliphatic >C5-C6	<1	RBSL: 30,000
Aliphatic >C6-C8	<1	WHO DWS: 15,000
Aliphatic >C8-C10	<5	WHO DWS: 300
Aliphatic >C10-C12	<5	WHO DWS: 300
Aliphatic >C12-C16	<5	WHO DWS: 300
Aliphatic >C16-C21	<5	WHO DWS: N/A
Aliphatic >C21-C35	<5	
Aromatic >C5-C7	<1	Statutory DWS of 1 (refer to benzene)
Aromatic >C7-C8	<1	LTOT: 42, RBSL: 480 (refer to toluene)
Aromatic >C8-C9	<5	LTOT: 29, RBSL: 590 (refer to benzene) or
Aromatic >C9-C10	<5	RBSL: 1,200 (refer to xylene)
Aromatic >C10-C12	<5	RBSL: 250
Aromatic >C12-C16	<5	RBSL: 270
Aromatic >C16-C21	<5	RBSL: 260
Aromatic >C21-C35	<10	
ТРН (С5-С35)	<10	WHO DWS: 90
BTEX - Benzene	<1	1

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BTEX - Toluene	<1	LTOT: 42, RBSL: 480
BTEX - Ethyl Benzene	<1	LTOT: 29, RBSL: 590
BTEX - m & p Xylene	<1	
BTEX - o Xylene	<1	LTOT: -, RBSL: 1,200
МТВЕ	<1	LTOT: 20, RBSL: 2,300
TAME	<10	LTOT: 128, RBSL: 800
DIPE	<10	LTOT: 0.8*, RBSL: 440
ETBE	<10	LTOT: 13, RBSL: 1,700
ТВА	<50	LTOT: -, RBSL: 7,500
Ethanol	<100	
1,2-Dichloroethane	<1	3
1,2-Dibromoethane	<1	LTOT: -, RBSL: 1.9
PAH – naphthalene	<0.1	LTOT: 21, RBSL: 150
Total PAH (16)	<0.1	
2-methylnaphthalene	<1	LTOT: 10, RBSL: 28
Carbon tetrachloride	<1	Statutory DWS 3.0
Dichloromethane	<5	Statutory DWS 3.0
1,1,1-Trichloroethane	<1	
Trichloroethene	<1	Statutory DWS 10.0
Tetrachloroethene	<1	sum of TCE and PCE
Vinyl chloride	<1	Statutory DWS 0.5

LTOT: Lower Taste & Odour Thresholds, RBSL = Risk Based Screening Level

* = LMDL is higher than the DWS

Table L4: Vapour-phase analytical results summary (μ g/m3) – selected retail petroleum and/or non-retail petroleum COPC, including comparison with applicable vGAC

COPC (µg/m3)	Location	VP01	MW101	MW105	MW104	TRIP BLANK	RSK vGAC - Residential (Small Terrace House)	RSK vGAC - Commercial (Office pre-1970)
							(µg	/m3)
MTBE		<5.4	<5.4	<5.4	<5.4	<5.4	807,000	25679,000
Benzene		7.7	<4.8	15.7	7.3	<4.8	1,590	49,990
Toluene		33.2	25.2	88.9	185.8	<5.7	1580,000	49945,000
Ethylbenzer	ie	<6.5	<6.5	8.7	<6.5	<6.5	83,100	2644,000
m/p-Xylene		6.9	<6.5	8.7	<6.5	<6.5	62,300 (Xylenes)	2089,000 (Xylenes)
o-Xylene		<6.5	<6.5	<6.5	<6.5	<6.5	02,300 (Ayleries)	2009,000 (Xyieries)
Aliphatic >C	4-C6	<33	53	<33	5539	<33	2831,000	89271,000
Aliphatic >C	6-C8	<41	413	315	1247	<41	2831,000	89271,000

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Aliphatic >C8-C10	<53	<53	85	<53	<53	164,000	5178,000
Aliphatic >C10-C12	<65	<65	589	1276	<65	164,000	5178,000
Aromatic >C5-EC7 (Benzene)	7.7	<4.8	15.7	7.3	<4.8	-	-
Aromatic >EC7-EC8 (Toluene)	33.2	25.2	88.9	185.8	<5.7	-	-
Aromatic >EC8-EC10	<49	<49	<49	<49	<49	34,000	1071,000
Aromatic >EC10-EC12	<53	<53	<53	<53	<53	34,000	1071,000

Table L5: Results of waste soils characterisation assessment (HASWASTE)

Sample reference/location	Waste classification
MW103 at 3 m bgl	not hazardous
MW105 at 3m bgl	not hazardous
Composite sample from the skip 'SKIP'	not hazardous



APPENDIX M WASTE CHARACTERISATION ASSESSMENT OUTPUTS

HASWASTE v6 extra. Envirolab's Contaminated Land Soil Hazardous Waste Assessment Tool for use with WM3.

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Haswaste, developed by Dr. Iain Haslock.

Shell Welwyn Garden																			
Sample ID		22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14	22/00840/15	22/00840/16	22/00840/26	
Borehole ID / Depth Date		MW101 - 1.6m 25-Jan-22	MW101 - 3.8m 25-Jan-22	MW101 - 4.9m 25-Jan-22	MW 102 - 1.0m 19-Jan-22	MW103 - 1.5m 20-Jan-22	MW 103 - 3.0m 27-Jan-22	MW 103 - 5.0m 27-Jan-22	MW 104 - 0.7m 26-Jan-22	MW 104 - 3.0m 26-Jan-22	MW105 - 1.0m 26-Jan-22	MW105 - 3.0m 26-Jan-22	MW 105 - 5.0m 26-Jan-22	VP01 - 0.3m 19-Jan-22	VP01 - 1.7m 19-Jan-22	QAQC01 24-Jan-22	SKIP 27-Jan-22	MW105 - 6.0m 26-Jan-22	
	%										1	9.7							
% Moisture pH (soil)	76						10.7 7.24					7.81					9.7 8.05		
pH (leachate) Arsenic	mg/kg	1	3	18	26	12	8.80 34	4	12	8	6	8.70	2	1	1	4	8.50	2	
Cadmium Copper	mg/kg mg/kg	0.50 41.00	0.50	0.80	0.50 121.00	0.60	1.90 44.00	0.50	0.60	0.60	0.80	0.50	0.60	0.50	0.60	0.70 31.00		0.50	
CrVI or Chromium Lead	mg/kg mg/kg	45.00 5.00	34.00 14.00	35.00 14.00	16.00 70.00	29.00 14.00	29.00 26.00	25.00 7.00	20.00 15.00	30.00 12.00	24.00 59.00	13.00 5.00	29.00 10.00	36.00 4.00	40.00 4.00	24.00 11.00		12.00 8.00	
Mercurv Nickel	mg/kg mg/kg mg/kg	0.17 54.00	0.17 19.00	0.17 35.00	0.57	0.17 26.00	0.17 83.00	0.17 17.00	0.17 23.00	0.17 40.00	0.59 20.00	0.17 13.00	0.17 25.00	0.17 34.00	0.81 37.00	0.17 40.00		0.17 14.00	
Selenium Zinc	mg/kg mg/kg	2.00	1.00	1.00 89	1.00	1.00 72	1.00	1.00 24	1.00 54	1.00	1.00 79	1.00 30	1.00	1.00 27	1.00	1.00 42		1.00	
Barium Beryllium	malka																		
Vanadium	mg/kg mg/kg mg/kg mg/kg	377	12	13	6	11	13	7	9	11	5	3	8	9	6	12		12	
Cobait Manganese Molvbdenum	mg/kg mg/kg	3//	12	13	6	11	13	· ·	а	11	ь	3	8	э	6	12		12	
Antimony	mg/kg mg/kg																		
Aluminium Bismuth CrIII	mg/kg mg/kg mg/kg																		
Iron	mg/kg																		
Strontium Tellurium Thallium	mg/kg mg/kg mg/kg																		
Thallium Titanium Tungsten	mg/kg mg/kg mg/kg																		
Ammoniacal N ws Boron	mg/kg mg/kg mg/kg																		
PAH (Input Total PAH OR individua	al PAH results)																		
Acenaphthene Acenaphthylene	mg/kg mg/kg	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.18	0.01	0.01	0.01	0.02	0.01		0.01	
Anthracene Benzo(a)anthracene	mg/kg mg/kg	0.02	0.02	0.02	0.89 2.86	0.02	0.02	0.02	0.02	0.02	0.26	0.02	0.02	0.02	0.07	0.02		0.02	
Benzo(a)pyrene Benzo(b)fluoranthene	mg/kg mg/kg	0.04	0.04	0.04 0.05	2.31 2.67	0.04 0.05	0.04	0.04 0.05	0.05	0.04	0.54 0.41	0.04 0.05	0.04	0.04 0.05	0.05	0.04		0.04	
Benzo(ghi)perylene Benzo(k)fluoranthene	mg/kg mg/kg	0.05	0.05	0.05	0.99	0.05	0.05	0.05	0.05	0.05	0.59	0.05	0.05	0.05	0.05	0.05		0.05	
Chrysene Dibenzo(ah)anthracene	mg/kg mg/kg	0.06	0.06	0.06	2.66	0.06	0.06	0.06	0.06	0.06	0.33	0.06	0.06	0.06	0.06	0.06		0.06	
Fluoranthene Fluorene	mg/kg mg/kg	0.08	0.08	0.08	7.31	0.08	0.08	0.08	0.08	0.08	0.83	0.08	0.08	0.08	0.20	0.08		0.08	
Indeno(123cd)pyrene	mg/kg mg/kg	0.03	0.03	0.03	1.32	0.03	0.03	0.03	0.05	0.03	0.52	0.03	0.03	0.03	0.03	0.03		0.03	
Naphthalene Phenanthrene	mg/kg	0.03	0.03	0.03	3.60	0.03	0.03	0.03	0.03	0.03	1.12	0.03	0.03	0.03	0.22	0.03		0.03	
Pyrene Coronene	mg/kg mg/kg	0.07	0.07	0.07	6.35	0.07	0.07	0.07	0.08	0.07	0.67	0.07	0.07	0.07	0.16	0.07		0.07	
Total PAHs (16 or 17) TPH	mg/kg																		
Petrol Diesel	mg/kg mg/kg																		
Lube Oil	mg/kg														-				
Crude Oil White Spirit / Kerosene	mg/kg mg/kg		<u> </u>		L						t .								
Creosote Unknown TPH with ID	mg/kg mg/kg																		
Unknown TPHCWG	mg/kg																		
Total Sulphide Complex Cvanide	mg/kg mg/kg																		
Free (or Total) Cyanide Thiocyanate	mg/kg mg/kg																		
Elemental/Free Sulphur Phenols Input Total Phenols HPLC	mg/kg C OR individual Phenol		1		1														
results. Phenol	mg/kg																		
Cresols Xylenols	mg/kg mg/kg																		
Resourcinol Phenols Total by HPLC	mg/kg mg/kg																		
BTEX Input Total BTEX OR individ Benzene	ual BTEX results.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		0.01	
Toluene Ethylbenzene	mg/kg mg/kg	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		0.01	
Xylenes Total BTEX	mg/kg mg/kg mg/kg	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		0.01	
PCBs (POPs)		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		0.01	0.01	0.01	0.01	0.01		0.01	
PCBs Total (eg EC7/WHO12)	mg/kg	<u> </u>	1	.	1	.		.			0.007	.			-		.	-	
PBBs (POPs) Hexabromobiphenyl (Total or																			
PBB153; 2,2',4,4',5,5'- if only available)	mg/kg																		

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property. HASWASTE v6 extra. Envirolab's Contaminated Land Soil Hazardous Waste Assessment Tool for use with WM3.

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Haswaste, developed by Dr. Iain Haslock.	

Please enter available data in the rows associated	with the test (grey) cells.	Calculation cells initially display either "0.0000" or "#DIV/0!".	
If any calculation cells below state "0.00000"	, testing has NOT been u	undertaken that contributes to that Hazardous Property.	

If any calculation cells below state "0.00000"	", testing has NOT been und	dertaken that contributes to that	Hazardous Property.

22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14	22/00840/15	22/00840/16	22/00840/26	
MW101 - 1.6m	MW101 - 3.8m	MW101 - 4.9m	MW102 - 1.0m	MW103 - 1.5m	MW 103 - 3.0m	MW103 - 5.0m	MW104 - 0.7m	MW104 - 3.0m	MW105 - 1.0m	MW105 - 3.0m	MW105 - 5.0m	VP01 - 0.3m	VP01 - 1.7m	QAQC01	SKIP	MW105 - 6.0m	
25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22	24-Jan-22	27-Jan-22	26-Jan-22	
	MW101 - 1.6m	MW101 - 1.6m MW101 - 3.8m	MW101 - 1.6m MW101 - 3.8m MW101 - 4.9m	MW101 - 1.6m MW101 - 3.8m MW101 - 4.9m MW102 - 1.0m	MW101 - 1.6m MW101 - 3.8m MW101 - 4.9m MW102 - 1.0m MW103 - 1.5m	MW101 - 1.6m MW101 - 3.8m MW101 - 4.9m MW102 - 1.0m MW103 - 1.5m MW103 - 3.0m	MW101-1.6m MW101-3.8m MW101-4.9m MW102-1.0m MW103-1.5m MW103-3.0m MW103-5.0m	MW101-1.6m MW101-3.8m MW101-4.9m MW102-1.0m MW103-1.5m MW103-3.0m MW103-5.0m MW104-0.7m	MW101-1.8m MW101-3.8m NW101-4.9m NW102-1.0m NW103-1.5m NW103-3.0m NW103-5.0m MW104-0.7m MW104-3.0m	MW101-1.8m MW101-3.8m MW101-4.9m MW102-1.0m MW103-1.5m MW103-3.0m MW103-3.0m MW104-0.7m MW104-3.0m MW104-3.0m	MW101-1.6m MW101-3.8m MW101-4.9m MW102-1.0m MW103-1.5m MW103-3.0m MW103-5.0m MW104-0.7m MW104-3.0m MW104-3.0m	MW101-1.8m MW101-3.8m MW101-4.9m MW102-1.0m MW103-1.5m MW103-3.5m MW103-3.5m MW103-5.5m MW104-0.7m MW104-3.5m MW104-3.5m MW105-5.5m	MW101-1.6m MW101-3.8m MW101-4.9m MW102-1.0m MW103-1.5m MW103-3.0m MW103-3.0m MW103-6.0m MW104-0.7m	MW101-1.0m MW101-3.0m MW101-4.0m MW102-1.0m MW103-1.5m MW103-3.0m MW103-5.0m MW103-4.5m MW103-5.0m MW105-1.0m	MW101-1.0m MW101-3.0m MW101-4.0m MW102-1.0m MW103-1.5m MW103-3.0m MW103-5.0m MW103-6.0m MW104-0.7m	MW101-1.9m MW101-3.2m MW101-4.9m MW102-1.0m MW102-1.5m MW103-3.5m MW103-3.5m MW103-4.5m MW103-4.5m MW104-0.7m MW104-0.7m MW105-1.0m MW105-1.0m MW105-5.5m VPD1-0.3m VPD1-0.3m VPD1-1.7m QAQC01 SKP	-MW101-Lam MW101-Aam MW101-Aam MW102-Lam MW103-Lam MW103-Lam MW103-Aam MW103-Cam MW103-Cam MW103-Cam MW104-Cam

POPs Dioxins and Furans Input Total Dioxins and Furans

OR individual Dioxin and Furan res	ults.								
2,3,7,8-TeCDD	mg/kg								
1.2.3.7.8-PeCDD 1.2.3.4.7.8-HxCDD 1.2.3.6.7.8-HxCDD	mg/kg								
1,2,3,4,7,8-HxCDD	mg/kg								
1,2,3,6,7,8-HxCDD	mg/kg								
1,2,3,7,8,9-HxCDD	mg/kg								
1,2,3,4,6,7,8-HpCDD	mg/kg								
12:33:8,9-HxDD 12:33:4,6:7,8-HpCDD 0CDD 2:37:8-TeCDF 12:33:7.8-TeCDF 12:34:7:8-TeCDF 12:34:7:8-HxCDF 12:34:7:8-HxCDF 2:34:6:7.8-HxCDF	mg/kg								
2,3,7,8-TeCDF	mg/kg								
1,2,3,7,8-PeCDF	mg/kg								
2,3,4,7,8-PeCDF	mg/kg								
1,2,3,4,7,8-HxCDF	mg/kg								
1,2,3,6,7,8-HxCDF	mg/kg								
2,3,4,6,7,8-HxCDF	mg/kg								
1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF	mg/kg								
1,2,3,4,6,7,8-HpCDF	mg/kg								
1.2.3.4.7.8.9-HpCDF OCDF	mg/kg								
OCDF	mg/kg								
Total Dioxins and Furans	mg/kg								

Some Pesticides (POPs unless otherwise stated)

Aldrin	mg/kg												
α Hexachlorocyclohexane (alpha-													
HCH) (leave empty if total HCH	mg/kg												
moule used													
results used) β Hexachlorocyclohexane (beta-													
HCH) (leave empty if total HCH	mg/kg												
HCH) (leave empty il total HCH	ingrag												
results used)													
α Cis-Chlordane (alpha) OR	mg/kg												
Total Chlordane	0												
δ Hexachlorocyclohexane (delta-													
HCH) (leave empty if total HCH	mg/kg												
results used)													
Dieldrin	mg/kg												
Endrin	mg/kg												
χ Hexachlorocyclohexane													
(gamma-HCH) (lindane) OR	mg/kg												
Total HCH					1	1				1	1		
Heptachlor	mg/kg												
Hexachlorobenzene	mg/kg												
o,p'-DDT (leave empty if total													
0,p-DDT (leave empty in total	mg/kg												
DDT results used) p,p'-DDT OR Total DDT													
p,p-DDT OR Total DDT	mg/kg												
χ Trans-Chlordane (gamma)													
(leave empty if total Chlordane	mg/kg												
results used)													
Chlordecone (kepone)	mg/kg												
Pentachlorobenzene	mg/kg												
Mirex	mg/kg												
Toxaphene (camphechlor)	mg/kg												
	iligikg	1	1	1						1			
Tin (leave empty if Organotin													
Tin (leave empty if Organotin													
and Tin excl Organotin results	mg/kg												
used)													
Organotin							1						
			1		1	1					1		
Dibutyltin; DiBT	mg/kg												
Tributyltin; TriBT	mg/kg												
Triphenyltin; TriPT	mg/kg												
Tetrabutyltin; TeBT	mg/kg												
Tin excluding Organotin									÷				
Tin excl Organotin	mg/kg												
Till exci Organotin	тıg/кg												

HASWASTE v6 extra. Envirolab's Contaminated I

Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg

Mutagenic HP11 Produces Toxic Gases HP12

Sulphide Produces Toxic Gases HP12

HP13 Sensitising

Cvanide Produces Toxic Gases HP12

Thiocyanate

Ecotoxic HP14

mended v6

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HASWASTE v6 extra. Envirolab's Contaminated Land Soil Hazardous Waste Assessment Tool for use with WM3.

envirolab

Haswaste, developed by Dr. Iain Haslock.

Assessment Tool for use with WM3.	
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Shell Welwyn Garden																				
Sample ID	1		22/00840/1	22/00840/2	22/00840/3	22/00840/4	22/00840/5	22/00840/6	22/00840/7	22/00840/8	22/00840/9	22/00840/10	22/00840/11	22/00840/12	22/00840/13	22/00840/14	22/00840/15	22/00840/16	22/00840/26	
Borehole ID / Depth			MW101 - 1.6m	MW101 - 3.8m	MW101 - 4.9m	MW102 - 1.0m	MW103 - 1.5m	MW 103 - 3.0m	MW 103 - 5.0m	MW104 - 0.7m	MW104 - 3.0m	MW105 - 1.0m	MW 105 - 3.0m	MW 105 - 5.0m	VP01 - 0.3m	VP01 - 1.7m	QAQC01	SKIP	MW105 - 6.0m	
Date			25-Jan-22	25-Jan-22	25-Jan-22	19-Jan-22	20-Jan-22	27-Jan-22	27-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	26-Jan-22	19-Jan-22	19-Jan-22	24-Jan-22	27-Jan-22	26-Jan-22	
Ecotoxic HP14 amended v6	225%	<0.1% (except Be, V, Te, Ti, Diesel, Diesel, Crude Oil, Karosene, TPH, TPH-KI TPH-KI Crosote, TPH-KI Phenol, Cresols, CompCN, Thioryanate, Tollonee, Ethylbercan e, Xylene + BTEX 1%).	0.06655	0.02262	0.03199	0.04214	0.02611	0.05446	0.01456	0.02064	0.02657	0.02849	0.00985	0.01738	0.02010	0.02104	0.02456	0.00000	0.01208	0.00000
Ecotoxic HP14 amended v6	225%	«0.1% (except Be, V, Te, T, Petrol, Diesel, Crude Oil, Kerosene, TPH, TPHCVG, Phenols, CompCN, Tiber, Anato Entybencen e, Xylenols, Tolico,anato Entybencen e, Xyleno + BTEX 1%).	6.85470	2.26110	3.19640	4.21370	2.61030	5.44525	1.45600	2.08330	2.65680	2.84817	0.98436	1.73760	2.00980	2.10360	2.45570	0.0000	1.20800	0.0000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides) Persistent Organic Pollutant	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.0000000	0.00000000	0.00000000	0.00000000	0.00000070	0.00000000	0.00000000	0.00000000	0.00000000	0.0000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please contact Envirolab.

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Registration CBDU116673 – O'Donovan (Waste Disposal) Ltd.

Registration number	CBDU116673
Business name	O'Donovan (Waste Disposal) Ltd.
Company number	02216657 (http://business.data.gov.uk/id/company/02216657)
Registered as	Carrier Dealer - Upper Tier ► Help with tier types
Applicant type	Company
Registration date:	06/06/2019

Business address

Address	O'DONOVAN WASTE DISPOSAL LTD, MARKFIELD ROAD, LONDON, N15 4QF
Postcode	N15 4QF (http://data.ordnancesurvey.co.uk/id/postcodeunit/N154QF)

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CONTAINER DELIVERY AND CONTROLLED WASTE	TRANSFER NOTE	O'DONOVAN (WASTE DISDOCAL) LINUT
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TOTTENHAM, LONDON N15 4QF	\$ 03.22	WP3391NT/A001 No. 584092
TEL: 020-8801 9561 FAX: 020-8808 1043		
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	COLLECTION	COLLECTION POINT
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APPENDIX N GENERIC ASSESSMENT CRITERIA



Generic assessment criteria for human health: continued oil (filling station kiosk)

Background

RSK's generic assessment criteria (GAC) were initially prepared following the publication by the Environment Agency (EA) of soil guideline value (SGV) and toxicological (TOX) reports, and associated publications in 2009⁽¹⁾. RSK GAC were updated following the publication of GAC by LQM/CIEH in 2009⁽²⁾. RSK GAC are periodically revised when updated information on toxicological, land use or receptor parameters is published.

Updates to the RSK GAC

In 2014, the publication of Category 4 Screening Levels (C4SL)^(3,4), as part of the Defra funded research project SP1010, included modifications to certain exposure assumptions documented within EA Science Report SC050221/SR3 (herein after referred to as SR3)⁽⁵⁾ used in the generation of SGVs. The sole modification applicable to the RSK continued oil (filling station) land use scenario is the updated daily inhalation rates.

C4SL were initially published for six substances (cadmium, arsenic, benzene, benzo(a)pyrene, chromium VI and lead) for a sandy loam soil type with 6% soil organic matter, based on a low level of toxicological concern (LLTC; see Section 2.3 of research project report SP1010⁽³⁾). Further C4SL were published in 2021 for vinyl chloride, tetrachloroethene (PCE) and trichloroethene (TCE). Where a C4SL has been published, the RSK GAC duplicates the C4SL using all input parameters within the SP1010 final project report⁽³⁾ and associated chemical specific reports⁽⁶⁾, and adopts them as GAC for these six substances. Due to the use of decimal places rather than significant figures applied to the Contaminated Land Exposure Assessment (CLEA) tool outputs, the GAC presented may be marginally differently to the C4SL values, however any differences between the values are minimal and would not equate to an unacceptable risk. The current RSK GAC have also been revised with updated toxicology published by LQM/CIEH in 2015⁽⁷⁾, where a LLTC has not been published as part of the C4SL.

RSK GAC for the continued oil land use scenario has used the toxicology published within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, where available, or the toxicology published by LQM/CIEH in 2015⁽⁷⁾ or by the USEPA⁽¹⁴⁾.

This GAC appendix therefore presents RSK GAC that may be used in the GQRA stage for a continued oil land use scenario.

RSK GAC derivation for metals and organic compounds

Model selection

Soil assessment criteria (SAC) were calculated using the CLEA tool v1.071 and supporting EA guidance^(5,8,9). The SAC are also termed GAC.

Pathway selection

The RSK continued oil scenario is most similar to that of a commercial scenario set out in SR3⁽⁵⁾, which considers risks to a female worker who works from the age of 16 to 65 years (age class



17). In accordance with Box 3.5 of SR3⁽⁵⁾, the pathways considered for production of the SAC in the commercial scenario (continued oil use) are

- direct soil and dust ingestion
- dermal contact with soil both indoors and outdoors
- indoor air inhalation from soil and vapour and outdoor inhalation of soil and vapour.

Figure 1 is a conceptual model illustrating these linkages. It should be noted that the predominant pathway for the continued oil scenario is associated with vapour inhalation owing to hardstanding being present over the majority of filling stations.

With respect to volatilisation, the CLEA model assumes a simple linear partitioning of a chemical in the soil between the sorbed, dissolved and vapour phase⁽⁹⁾. The upper boundaries of this partitioning are represented by the maximum aqueous solubility and pure saturated vapour concentration of the chemical. The CLEA model estimates saturated soil concentrations where these limits are reached⁽⁹⁾. The CLEA software uses a traffic light system to identify when individual and/or combined assessment criteria exceed the lower of either the aqueous- or vapour-based soil saturation limits. Model output cells are flagged red where the saturated soil concentration has been exceeded and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10%. In this case, further consideration of the following is required⁽⁹⁾:

- Free phase contamination may be present.
- Exposure from the vapour pathways will be over predicted by the model, as in reality the vapour phase concentration will not increase at concentrations above saturation limits.
- Where the vapour pathway contribution is greater than 90%, it is unlikely the relevant health criteria value (HCV) will be exceeded at soil concentrations at least a factor of ten higher than the relevant HCV.

Where the vapour pathway is the predominant pathway (contributes greater than 90% of exposure) or the only exposure route considered and the cell is highlighted red (SAC exceeds saturation limit), the risk based on the assumed conceptual model is likely to be negligible as the vapour risk is assumed to be tolerable at maximum possible soil concentrations. In such circumstances the vapour pathway exposure should be considered based on the presence of free phase or non-aqueous phase liquid sources and the measured concentrations of volatile organic compounds (VOC) in the vapour phase. Screening could be considered based on setting the SAC as the modelled soil saturation limits. However, as stated within the CLEA handbook⁽⁹⁾, this is likely to not be practical in many cases because of the very low saturation limits and, in any case, is highly conservative.

It should also be noted that for mixtures of compounds, free phase may be present where soil (or groundwater) concentrations are well below saturation limits for individual compounds.

Where the vapour pathway is only one of the exposure pathways considered, an additional approach can then be utilised as detailed within Section 4.12 of the CLEA model handbook⁽⁹⁾, which explains how to calculate an effective assessment criterion manually.

SR3⁽⁵⁾ states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase contamination by petroleum hydrocarbons are at least a factor of ten higher than those likely to be measured on site. RSK has therefore applied an empirical subsurface to indoor air correction factor of 10 into the CLEA chemical database and to outputs for all petroleum hydrocarbons (including BTEX, trimethylbenzenes, and the



polycyclic aromatic hydrocarbons (PAH) naphthalene, acenaphthene and acenaphthylene) to reduce this conservatism.

Input selection

The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7⁽¹⁰⁾, the EA TOX⁽¹⁾ reports, the C4SL SP1010 project report and associated chemical specific reports^(3,6), the 2015 LQM/CIEH report⁽⁷⁾ or the USEPA IRIS database⁽¹⁴⁾. Where a LLTC^(3,6) has been published for a substance, RSK has used these input parameters to derive the RSK GAC.

Toxicological and specific chemical parameters for 1,2,4-trimethylbenzene, barium and methyl tertiary-butyl ether (MTBE) were obtained from the CL:AIRE Soil GAC report⁽¹¹⁾. For TPH, aromatic hydrocarbons C_5 – C_8 were not modelled, as this range comprises benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately.

Physical parameters

A typical kiosk on a filling station is smaller than a CLEA office ($24.5m \times 24.5m \times 9.6m$) or warehouse ($45m \times 45m \times 4.6m$). Therefore, the SAC have been produced with a smaller building size considered more representative of a kiosk. The building size taken was $10m \times 8m \times 3m$. No basement was assumed present in line with typical service stations. The building parameters are outlined in Table 3.

The parameters for a sandy loam soil type were used in line with SR3⁽⁵⁾. This includes a value of 6% for the percentage of soil organic matter (SOM) within the soil. In RSK's experience, this is rather high for many sites. To avoid undertaking site-specific risk assessments for this parameter, RSK has produced an additional set of SAC for an SOM of 1% and 2.5%.

Summary of modifications to the default SR3 input parameters

In summary, the RSK continued oil GAC were produced using the default input parameters for soil properties, the air dispersion model and the vapour model detailed in SR3⁽⁵⁾. The building size has been modified to reflect a small on-site kiosk. Modifications to the default SR3⁽⁵⁾ commercial exposure scenario based on the C4SL commercial exposure scenarios⁽³⁾ are presented in Table 2 below. The sole modification is the updated inhalation rate for the inhalation of vapours from soil only.

The SAC were produced using the input parameters in Tables 1 and 2 below, and the GrAC using the input parameters in Table 3. The pathway specific GAC are presented in Table 3 and the combined GAC are presented in Table 4.



Figure 1: Conceptual model for continued oil scenario

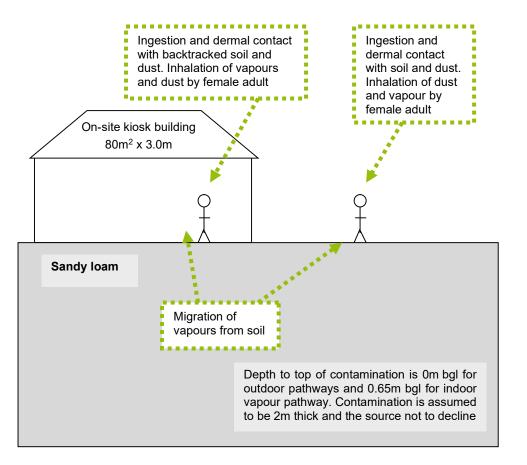


Table 1: Exposure assessment parameters for continued oil scenario – inputs for CLEA model

Parameter	Value	Justification
Land use	Commercial	Chosen land use
Receptor	Female worker	Taken as female adult exposed over 49 years from age 16 to 65 years, Box 3.5, SR3 ⁽⁵⁾
Building	Kiosk	Taken as a building measuring 8m x 10m, which is 3.0m high based on RSK experience of typical filling stations
Soil type	Sandy loam	Most common UK soil type (Section 4.3.1, Table 4.4, SR3 ⁽⁵⁾).
Start age class (AC)	17	AC corresponding to key generic assumption that the critical receptor is a working female adult exposed over a 49-year period from age 16 to 65
End AC	17	years. Assumption given in Box 3.5, SR3 ⁽⁵⁾ .
SOM (%)	6	Representative of sandy loam according to EA guidance note dated January 2009 entitled 'Changes We Have Made to the CLEA Framework Documents' ⁽¹³⁾
	1	To provide SAC for sites where SOM < 6% as
	2.5	often observed by RSK
рН	7	Model default



Table 2: Continued oil – modified receptor inputs

Parameter	Unit	Value	Justification
Inhalation rate (AC17)	m³ day⁻¹	15.7	Mean value USEPA, 2011 ⁽¹²⁾ ; Table 3.2, SP1010 ⁽³⁾



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GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - CONTINUED OIL SCENARIO

Table 3

Human health generic assessment criteria by pathway for continued oil scenario



	No	SAC appropri	iate to pathway SC	DM 1% (mg/kg)	Soil saturation	SAC appropri	ate to pathway SOM	VI 2.5% (mg/kg)	Soil saturation	SAC appropr	iate to pathway S	OM 6% (mg/kg)	Soil saturation limit
Compound	Notes	Oral	Inhalation	Combined	limit (mg/kg)	Oral	Inhalation	Combined	limit (mg/kg)	Oral	Inhalation	Combined	(mg/kg)
							•						
Metals													
Arsenic	(a,b)	6.35E+02	1.25E+03	NR	NR	6.35E+02	1.25E+03	NR	NR	6.35E+02	1.25E+03	NR	NR
Barium	(b)	2.21E+04	NR	NR	NR	2.21E+04	NR	NR	NR	2.21E+04	NR	NR	NR
Beryllium		3.97E+03	1.17E+01	NR	NR	3.97E+03	1.17E+01	NR	NR	3.97E+03	1.17E+01	NR	NR
Boron		2.38E+05	2.82E+07	NR	NR	2.38E+05	2.82E+07	NR	NR	2.38E+05	2.82E+07	NR	NR
Cadmium	(a)	7.73E+02	8.57E+02	4.10E+02	NR	7.73E+02	8.57E+02	4.10E+02	NR	7.73E+02	8.57E+02	4.10E+02	NR
Chromium (III) - trivalent	(c)	3.31E+05	8.57E+03	NR	NR	3.31E+05	8.57E+03	NR	NR	3.31E+05	8.57E+03	NR	NR
Chromium (VI) - hexavalent	(a,d)	9.62E+02	4.91E+01	NR	NR	9.62E+02	4.91E+01	NR	NR	9.62E+02	4.91E+01	NR	NR
Copper		1.89E+05	8.96E+04	6.83E+04	NR	1.89E+05	8.96E+04	6.83E+04	NR	1.89E+05	8.96E+04	6.83E+04	NR
Lead	(a)	2.32E+03	NR	NR	NR	2.32E+03	NR	NR	NR	2.32E+03	NR	NR	NR
Elemental Mercury (Hg ⁰)	(d)	NR	3.68E+00	NR	4.31E+00	NR	8.80E+00	NR	1.07E+01	NR	1.93E+01	NR	2.58E+01
Inorganic Mercury (Hg ²⁺)		1.18E+03	1.97E+04	1.12E+03	NR	1.18E+03	1.97E+04	1.12E+03	NR	1.18E+03	1.97E+04	1.12E+03	NR
Methyl Mercury (Hg4+)		3.38E+02	1.55E+02	1.06E+02	7.33E+01	3.38E+02	2.99E+02	1.59E+02	1.42E+02	3.38E+02	6.31E+02	2.20E+02	3.04E+02
Nickel	(d)	3.06E+03	9.83E+02	NR	NR	3.06E+03	9.83E+02	NR	NR	3.06E+03	9.83E+02	NR	NR
Selenium	(b)	1.23E+04	NR	NR	NR	1.23E+04	NR	NR	NR	1.23E+04	NR	NR	NR
Vanadium		2.15E+04	9.03E+03	NR	NR	2.15E+04	9.03E+03	NR	NR	2.15E+04	9.03E+03	NR	NR
Zinc	(b)	7.35E+05	1.97E+08	NR	NR	7.35E+05	1.97E+08	NR	NR	7.35E+05	1.97E+08	NR	NR
Cyanide (free)		6.56E+02	7.51E+04	6.53E+02	NR	6.56E+02	7.51E+04	6.53E+02	NR	6.56E+02	7.51E+04	6.53E+02	NR
Volatile Organic Compounds													
Benzene	(a)	1.09E+03	5.52E+00	5.50E+00	1.22E+03	1.09E+03	1.03E+01	1.02E+01	2.26E+03	1.09E+03	2.13E+01	2.09E+01	4.71E+03
Toluene		4.24E+05	1.33E+04	1.29E+04	8.69E+02	4.24E+05	2.94E+04	2.75E+04	1.92E+03	4.24E+05	6.67E+04	5.77E+04	4.36E+03
Ethylbenzene		1.91E+05	1.25E+03	1.24E+03	5.18E+02	1.91E+05	2.92E+03	2.88E+03	1.22E+03	1.91E+05	6.83E+03	6.60E+03	2.84E+03
Xylene - m		3.43E+05	1.33E+03	1.32E+03	6.25E+02	3.43E+05	3.13E+03	3.10E+03	1.47E+03	3.43E+05	7.34E+03	7.18E+03	3.46E+03
Xylene - o		3.43E+05	1.43E+03	1.42E+03	4.78E+02	3.43E+05	3.34E+03	3.31E+03	1.12E+03	3.43E+05	7.81E+03	7.64E+03	2.62E+03
Xylene - p		3.43E+05	1.28E+03	1.27E+03	5.76E+02	3.43E+05	3.00E+03	2.97E+03	1.35E+03	3.43E+05	7.00E+03	6.86E+03	3.17E+03
Total xylene		3.43E+05	1.28E+03	1.27E+03	5.76E+02	3.43E+05	3.00E+03	2.97E+03	1.35E+03	3.43E+05	7.00E+03	6.86E+03	3.17E+03
Methyl tertiary-Butyl ether (MTBE)		5.72E+05	1.54E+03	1.54E+03	2.04E+04	5.72E+05	2.50E+03	2.49E+03	3.31E+04	5.72E+05	4.75E+03	4.71E+03	6.27E+04
Trichloroethene (TCE)		1.49E-01	5.28E-01	NR	1.54E+03	3.12E-01	1.11E+00	NR	3.22E+03	6.91E-01	2.46E+00	NR	7.14E+03
Tetrachloroethene (PCE)		2.67E+04	5.16E+00	5.16E+00	4.24E+02	2.67E+04	1.16E+01	1.16E+01	9.51E+02	2.67E+04	2.65E+01	2.65E+01	2.18E+03
1,1,1-Trichloroethane		1.14E+06	1.35E+02	1.35E+02	1.43E+03	1.14E+06	2.77E+02	2.77E+02	2.92E+03	1.14E+06	6.08E+02	6.07E+02	6.39E+03
1,1,1,2 Tetrachloroethane		1.10E+04	2.31E+01	2.31E+01	2.60E+03	1.10E+04	5.36E+01	5.34E+01	6.02E+03	1.10E+04	1.25E+02	1.23E+02	1.40E+04
1,1,2,2-Tetrachloroethane		1.10E+04	5.88E+01	5.85E+01	2.67E+03	1.10E+04	1.21E+02	1.19E+02	5.46E+03	1.10E+04	2.64E+02	2.58E+02	1.20E+04
Carbon Tetrachloride		7.62E+03	5.90E-01	5.90E-01	1.52E+03	7.62E+03	1.29E+00	1.29E+00	3.32E+03	7.62E+03	2.93E+00	2.93E+00	7.54E+03
1,2-Dichloroethane		2.29E+02	1.33E-01	1.33E-01	3.41E+03	2.29E+02	1.92E-01	1.92E-01	4.91E+03	2.29E+02	3.29E-01	3.29E-01	8.43E+03
Vinyl Chloride (chloroethene)		1.19E+02	2.07E-01	2.06E-01	1.36E+03	1.19E+02	2.67E-01	2.67E-01	1.76E+03	1.19E+02	4.09E-01	4.07E-01	2.69E+03
1,2,4-Trimethylbenzene		NR	8.30E+01	NR	4.74E+02	NR	1.91E+02	NR	1.16E+03	NR	3.98E+02	NR	2.76E+03
1,3,5-Trimethylbenzene	(e)	NR	NR	NR	2.30E+02	NR	NR	NR	5.52E+02	NR	NR	NR	1.30E+03
Semi-Volatile Organic Compounds													
Acenaphthene		1.10E+05	6.68E+05	9.42E+04	5.70E+01	1.10E+05	1.55E+06	1.02E+05	1.41E+02	1.10E+05	3.28E+06	1.06E+05	3.36E+02
Acenaphthylene		1.10E+05	6.23E+05	9.33E+04	8.61E+01	1.10E+05	1.45E+06	1.02E+05	2.12E+02	1.10E+05	3.07E+06	1.06E+05	5.06E+02
Anthracene		5.49E+05	1.97E+06	4.29E+05	1.17E+00	5.49E+05	4.75E+06	4.92E+05	2.91E+00	5.49E+05	1.06E+07	5.22E+05	6.96E+00
Benzo(a)anthracene		2.84E+02	1.99E+02	1.17E+02	1.71E+00	2.84E+02	3.07E+02	1.47E+02	4.28E+00	2.84E+02	3.89E+02	1.64E+02	1.03E+01
Benzo(a)pyrene	(a)	7.63E+01	8.66E+01	NR	9.11E-01	7.64E+01	9.21E+01	NR	2.28E+00	7.64E+01	9.49E+01	NR	5.46E+00
Benzo(b)fluoranthene		7.13E+01	1.06E+02	4.26E+01	1.22E+00	7.13E+01	1.15E+02	4.40E+01	3.04E+00	7.13E+01	1.19E+02	4.46E+01	7.29E+00
Benzo(g,h,i)perylene		6.29E+03	1.01E+04	3.88E+03	1.54E-02	6.29E+03	1.04E+04	3.93E+03	3.85E-02	6.29E+03	1.06E+04	3.95E+03	9.23E-02
Benzo(k)fluoranthene		1.88E+03	2.92E+03	1.15E+03	6.87E-01	1.88E+03	3.09E+03	1.17E+03	1.72E+00	1.88E+03	3.17E+03	1.18E+03	4.12E+00
Chrysene		5.67E+02	6.95E+02	3.12E+02	4.40E+01	5.67E+02	8.29E+02	3.37E+02	1.10E+00	5.67E+02	9.02E+02	3.48E+02	2.64E+00
Dibenzo(a,h)anthracene		5.67E+00	8.20E+00	3.35E+00	3.93E-03	5.67E+00	9.02E+00	3.48E+00	9.82E-03	5.67E+00	9.42E+00	3.54E+00	2.36E-02
Fluoranthene		2.29E+04	4.08E+05	2.16E+04	1.89E+01	2.29E+04	8.79E+05	2.23E+04	4.73E+01	2.29E+04	1.61E+06	2.25E+04	1.13E+02
Fluorene		7.31E+04	8.63E+04	3.96E+04	3.09E+01	7.31E+04	2.11E+05	5.43E+04	7.65E+01	7.31E+04	4.92E+05	6.37E+04	1.83E+02

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - CONTINUED OIL SCENARIO

Table 3

Human health generic assessment criteria by pathway for continued oil scenario

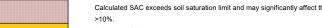


	Notes	SAC appropriate to pathway SOM 1% (mg/kg)			Soil saturation	SAC appropr	iate to pathway SOM	/l 2.5% (mg/kg)	Soil saturation	SAC appropr	Soil saturation limit		
Compound	tes	Oral	Inhalation	Combined	limit (mg/kg)	Oral	Inhalation	Combined	limit (mg/kg)	Oral	Inhalation	Combined	(mg/kg)
Indeno(1,2,3-cd)pyrene		8.10E+02	1.17E+03	4.79E+02	6.13E-02	8.10E+02	1.28E+03	4.97E+02	1.53E-01	8.10E+02	1.34E+03	5.05E+02	3.68E-01
Naphthalene		3.64E+04	4.08E+02	4.03E+02	7.64E+01	3.64E+04	9.73E+02	9.48E+02	1.83E+02	3.64E+04	2.28E+03	2.14E+03	4.32E+02
Phenanthrene		2.28E+04	8.98E+04	1.82E+04	3.60E+01	2.28E+04	2.15E+05	2.06E+04	8.96E+01	2.28E+04	4.78E+05	2.18E+04	2.14E+02
Pyrene		5.49E+04	9.23E+05	5.18E+04	2.20E+00	5.49E+04	2.00E+06	5.34E+04	5.49E+00	5.49E+04	3.70E+06	5.41E+04	1.32E+01
Phenol		1.10E+06	4.55E+03	4.53E+03	2.42E+04	1.10E+06	6.72E+03	6.68E+03	3.81E+04	1.10E+06	1.09E+04	1.08E+04	7.03E+04
Total petroleum hydrocarbons													
Aliphatic hydrocarbons EC5-EC6		4.77E+06	6.04E+02	6.04E+02	3.04E+02	4.77E+06	1.11E+03	1.11E+03	5.58E+02	4.77E+06	2.29E+03	2.29E+03	1.15E+03
Aliphatic hydrocarbons >EC ₆ -EC ₈		4.77E+06	1.47E+03	1.47E+03	1.44E+02	4.77E+06	3.29E+03	3.29E+03	3.22E+02	4.77E+06	7.53E+03	7.52E+03	7.36E+02
Aliphatic hydrocarbons >EC ₈ -EC ₁₀		9.53E+04	3.82E+02	3.82E+02	7.77E+01	9.53E+04	9.32E+02	9.30E+02	1.90E+02	9.53E+04	2.22E+03	2.20E+03	4.51E+02
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂		9.53E+04	1.89E+03	1.88E+03	4.75E+01	9.53E+04	4.71E+03	4.65E+03	1.18E+02	9.53E+04	1.13E+04	1.09E+04	2.83E+02
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆		9.53E+04	1.58E+04	1.51E+04	2.37E+01	9.53E+04	3.94E+04	3.45E+04	5.91E+01	9.53E+04	9.43E+04	6.32E+04	1.42E+02
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	(b)	9.37E+05	NR	NR	8.48E+00	1.34E+06	NR	NR	2.12E+01	1.62E+06	NR	NR	5.09E+01
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	9.37E+05	NR	NR	8.48E+00	1.34E+06	NR	NR	2.12E+01	1.62E+06	NR	NR	5.09E+01
Aromatic hydrocarbons >EC8-EC10		3.81E+04	6.74E+02	6.71E+02	6.13E+02	3.81E+04	1.65E+03	1.63E+03	1.50E+03	3.81E+04	3.93E+03	3.82E+03	3.58E+03
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂		3.81E+04	3.67E+03	3.57E+03	3.64E+02	3.81E+04	9.05E+03	8.44E+03	8.99E+02	3.81E+04	2.15E+04	1.77E+04	2.15E+03
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆		3.81E+04	4.00E+04	2.60E+04	1.69E+02	3.81E+04	9.82E+04	3.37E+04	4.19E+02	3.81E+04	2.30E+05	3.64E+04	1.00E+03
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	(b)	2.72E+04	NR	NR	5.37E+01	2.79E+04	NR	NR	1.34E+02	2.82E+04	NR	NR	3.21E+02
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	(b)	2.84E+04	NR	NR	4.83E+00	2.84E+04	NR	NR	1.21E+01	2.84E+04	NR	NR	2.90E+01
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	2.84E+04	NR	NR	4.83E+00	2.84E+04	NR	NR	1.21E+01	2.84E+04	NR	NR	2.90E+01

Notes:

- Generic assessment criteria not calculated owing to low volatility of substance and therefore no pathway or an absence of toxicological data.

The CLEA model output is colour coded depending upon whether the soil saturation limit has been exceeded.



Calculated SAC exceeds soil saturation limit and may significantly affect the interpretation of any exceedances as the contribution of the indoor and outdoor vapour pathway to total exposure is

Calculated SAC exceeds soil saturation limit but the exceedance will not affect the SAC significantly as the contribution of the indoor and outdoor vapour pathway to total exposure is <10%. Calculated SAC does not exceed the soil saturation limit.

The SAC for organic compounds are dependant upon soil organic matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994. SAC for TPH fractions, PAHs napthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway (Section 10.1.1, SR3)

(a) SAC for arsenic, benzene, benzo(a)pyrene, cadmium, chromium VI and lead are derived using the C4SL toxicology data.

(b) SAC for barium and selenium should not include the inhalation pathway as no expert group HCV has been derived; aliphatic and aromatic hydrocarbons >EC16 should not include inhalation pathway due to their non-volatile nature and inhalation exposure being minimal (oral, dermal and inhalation exposure is compared to the oral HCV); arsenic should only be based on oral contribution (rather than combined) owing to the relative small contribution from inhalation in accordance with the SGV report. The Oral SAC should be adopted for zinc and benzo(a)pyrene. (c) SAC for CrIII should be based on the lower of the oral and inhalation SAC (see LQM/CIEH 2015 Section 6.8)

(d) SAC for elemental mercury, chromium VI and nickel should be based on the inhalation pathway only.

(e) SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used.



Table 4
Human health generic assessment criteria for continued oil scenario

Compound	SAC for Soil SOM 1% (mg/kg)	SAC for Soil SOM 2.5% (mg/kg)	SAC for Soil SOM 6% (mg/kg)
Metals			
Arsenic	640	640	640
Barium Beryllium	22,000	22,000 12	22,000 12
Boron	238,000	238,000	238,000
Cadmium	410	410	410
Chromium (III) - trivalent Chromium (VI) - hexavalent	8,600 49	8,600 49	8,600 49
Copper	68,000	68,000	68,000
Lead	2,320	2,320	2,320
Elemental Mercury (Hg ⁰)	4 (4)	9 (11)	19
Inorganic Mercury (Hg ²⁺)	1,120	1,120	1,120
Methyl Mercury (Hg ⁴⁺) Nickel	110 (73) 980	160 980	220 980
Selenium	12,000	12,000	12,000
Vanadium	9,000	9,000	9,000
Zinc Cyanide (free)	740,000 650	740,000 650	740,000 650
- · ·	030	050	050
Volatile Organic Compounds Benzene	5	10	21
Toluene	13,000 (870)	27,000 (1,920)	58,000 (4,360)
Ethylbenzene	1,000 (520)	3,000 (1,220)	7,000 (2,840)
Xylene - m Xylene - o	1,300 (620) 1,400 (480)	3,100 (1,470) 3,300 (1,120)	7,200 (3,460) 7,600 (2,620)
Xylene - p	1,300 (580)	3,000 (1,120)	6,900 (3,170)
Total xylene	1,300 (580)	3,000 (1,350)	6,900 (3,170)
Methyl tertiary-Butyl ether (MTBE)	1,500	2,500	4,700
Trichloroethene (TCE) Tetrachloroethene (PCE)	0.15	0.31 11.6	0.69 26.5
1,1,1-Trichloroethane	100	300	20.5
1,1,1,2 Tetrachloroethane	20	50	120
1,1,2,2-Tetrachloroethane	60	120	260
Carbon Tetrachloride 1.2-Dichloroethane	0.6	1.3 0.19	2.9 0.33
Vinyl Chloride (chloroethene)	0.13	0.19	0.33
1,2,4-Trimethylbenzene	80	190	400
1,3,5-Trimethylbenzene	NR	NR	NR
Semi-Volatile Organic Compounds			
Acenaphthene	90,000 (57) 90,000 (86)	100,000 100,000	110,000 110,000
Acenaphthylene Anthracene	430,000	490,000	520,000
Benzo(a)anthracene	120	150	160
Benzo(a)pyrene	76	76	76
Benzo(b)fluoranthene	43	44	45
Benzo(g,h,i)perylene Benzo(k)fluoranthene	3,900	3,900 1,200	4,000
Chrysene	310	340	350
Dibenzo(a,h)anthracene	3.4	3.5	3.5
Fluoranthene Fluorene	22,000 40.000 (31)	22,000 54,000 (77)	23,000 64,000 (183)
Indeno(1,2,3-cd)pyrene	40,000 (31)	54,000 (77)	510
Naphthalene	400 (76)	950 (183)	2,140 (432)
Phenanthrene	18,000	21,000	22,000
Pyrene Phenol	52,000 440*	53,000 690*	54,000 1,300*
			.,
Total Petroleum Hydrocarbons Aliphatic hydrocarbons EC ₅ -EC ₆	600 (304)	1,100 (558)	2,300 (1,150)
Aliphatic hydrocarbons >EC ₆ -EC ₈	1,500 (144)	3,300 (322)	7,500 (736)
Aliphatic hydrocarbons $\geq C_8 - C_{10}$	400 (78)	900 (190)	2,200 (451)
Aliphatic hydrocarbons >EC10-EC12	1,900 (48)	4,600 (118)	10,900 (283)
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆	15,000 (24)	35,000 (59)	63,000 (142)
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	900,000	1,000,000**	1,000,000**
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	900,000	1,000,000**	1,000,000**
Aromatic hydrocarbons >EC ₈ -EC ₁₀	700 (613)	1,600 (1,503)	3,800 (3,578)
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂	4,000 (364)	8,000 (899)	18,000 (2,149)
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆	26,000 (169)	34,000	36,000
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	27,000	28,000	28,000
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	28,000	28,000	28,000
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	28,000	28,000	28,000
Minerals			
		detected with ID; Stage 2 tes	
Asbestos Notes:	(exceedance of either equa	tes to an exceedance of the	GAC) ¹
** Generic assessment criteria not calculated owing t NR - SAC for 1,3,5-trimethylbenzene is not recorded EC - equivalent carbon. GrAC - groundwater assess The GAC for Phenol is based on a threshold which ** Denoted SAC calculated exceeds 100% contamina The SAC for organic compounds are dependent on S	owing to the lack of toxicological data, \$ nent criteria. SAC - soil assessment cri is protective of direct contact (SC05002 ant, hence 100% (1,000,000mg/kg) has	SAC for 1,2,4 trimethylbenzene may teria. 1/Phenol SGV report) been taken as SAC	be used
divide by 0.58. 1% SOM is 0.58% TOC. DL Row SAC and GrAC for TPH fractions, PAHs napthalene, an attenuation factor for the indoor air inhalation section 10.1.1, SR3.	ell Soil Science: Methods and Application acenaphthene and acenaphthylene, BT	ons, Longmans, 1994. EX and trimethylbenzene compound	s were produced using
(VALUE IN BRACKETS) RSK has adopted an approach for petroleum hydrocor fraction has been tabulated as the SAC with the corre			or each petroleum hydrocarbon



Generic assessment criteria (vGAC) for indoor human health exposure

Background

RSK's vapour generic assessment criteria (vGAC) were initially prepared in 2012. The RSK vGAC are periodically revised when updated information on toxicological, land use or receptor parameters is published.

The potential for volatile organic compounds (VOC) present in the ground to cause significant human health risks *via* inhalation exposure is well documented and UK guidance on investigating, assessing and managing risks of inhalation of VOC on land affected by contamination has been published in CIRIA C682⁽¹⁾. CIRIA C682⁽¹⁾ is consistent with existing UK regulatory guidance on land contamination (e.g. the CLEA model and supporting documents^(2,3,4) and complements BS8576⁽⁵⁾ Guidance on investigations for ground gas. Permanent gases and Volatile Organic Compounds (VOCs).

A detailed framework for the assessment of VOC is provided in CIRIA C682⁽¹⁾, which describes the development and use of screening criteria for VOC present in soil, groundwater and soil gas (vapour).

For soil it is recognised that for VOC, published Soil Guideline Values (SGV) or calculated generic assessment criteria (GAC) that include, or are specific to, indoor inhalation exposure pathways may be used as conservative screening criteria⁽¹⁾. RSK has calculated GAC for VOC in soils for a variety of end-uses using CLEA v1.06, where SGV are not available. RSK also uses data from the Suitable for Use Levels published in 2015 by Nathanial et al.,⁽⁶⁾ and CL:AIRE⁽⁷⁾. For groundwater, RSK has calculated GAC using the RBCA model (version 1.3b) updated to reflect UK guidance.

It is recognised within CIRIA C682⁽¹⁾ that SGV/GAC for VOC in soil and groundwater calculated using published coefficients to estimate the partitioning from the sorbed or dissolved phase into the gas phase (e.g. Henry's constant) may be conservative by up to several orders of magnitude. Additional conservatism of inhalation exposure may also occur through estimation of soil gas intrusion into building *via* the foundation using models such as Johnson & Ettinger (J&E)⁽⁸⁾, although there are recognisable differences between chlorinated and non-chlorinated compounds. The J&E model is known to typically overestimate the intrusion of non-chlorinated VOC into buildings, whilst chlorinated VOC may be underestimated, with the consequence that the J&E model is no longer recommended for predicting vapour intrusion of chlorinated VOC in many of the states in the USA⁽¹⁾. This difference is in part due to the often rapid biodegradation of non-chlorinated VOC and very slow degradation of chlorinated in aerobic environments such as those typically found in shallow soils and beneath buildings.

Notwithstanding the above, it should be recognised that comparison of laboratory data for VOC in soils with SGV/GAC may also underestimate inhalation risk, due to the potential loss of VOC during soil sampling, which may be significant. Many states in the USA disregard reliance on soil results for vapour intrusion assessment for this reason.

The conservatism associated with estimating the indoor intrusion of VOC in soils has been recognised in guidance for the use of the CLEA model⁽³⁾, where calculated indoor VOC concentrations may be amended using a sub-surface soil to indoor air correction factor for petroleum hydrocarbons.



In general, multiple lines of evidence are recommended for vapour intrusion risk assessment⁽¹⁾. However, **it is not necessary to undertake soil gas VOC monitoring at all sites**, particularly those where VOC are not anticipated or identified in soil and groundwater. In deciding when it is appropriate to undertake soil gas VOC monitoring the following situations should be considered, based on a detailed understanding of the conceptual model and possible limitations in your data:

- Reliance on VOC in <u>soil data alone</u> acceptable only where shallow groundwater is absent and where:
 - VOC sources are not anticipated;
 - VOC are not identified during drilling/sampling (i.e. no olfactory evidence); and
 - VOC concentrations in soil samples are representative and well below SGV/GAC; potential significant losses of VOC during soil sampling must be recognised.
- Reliance on VOC in <u>soil and groundwater data alone</u> (i.e. no soil gas VOC data) acceptable only where:
 - VOC sources are not anticipated;
 - VOC are not identified during drilling/sampling (i.e. no olfactory evidence); and
 - VOC concentrations in soil and groundwater samples are representative and below SGV/GAC; potential significant losses of VOC during soil sampling must be recognised.

Where VOC are either anticipated or present in soil and/or groundwater in concentrations near to or exceeding SGV/GAC then direct measurement of VOC in soil gas is recommended to assess potential inhalation exposure. Soil gas VOC data should initially be compared with generic soil gas VOC assessment criteria (vGAC).

Remediation measures should not be recommended, or remediation criteria calculated, to mitigate inhalation exposure risks in the absence of soil gas VOC data, except in specific circumstances, e.g. where acute risk is possible or emergency response work is being undertaken.

Generic Soil Gas VOC Assessment Criteria (vGAC)

As part of a multiple lines of evidence approach, recommended in CIRIA C682, RSK details herein the calculation of vGAC to be used for screening soil gas VOC concentrations for the protection of human health inhalation exposure within residential and commercial buildings. vGAC are relevant to soil gas VOC concentrations measured in the following scenarios:

- Open spaces, with planned future development;
- Near slab i.e. close to, but outside, the building footprint; and
- Sub slab i.e. directly beneath the building footprint.



It is important to note that vGAC relate to soil gas concentrations only and are not for use when assessing the results of indoor air sampling. Indoor air sampling data must be compared directly with relevant published or adjusted inhalation health criteria value (HCV) such as those in Table 3 or with occupational exposure limits depending upon the purpose of the assessment.

Model Selection

In line with recommendations⁽⁹⁾ and the approach taken within the CLEA model, RSK has used the J&E model⁽¹⁰⁾ as the basis to estimate the vGAC. Limitations of the J&E model for chlorinated compounds are noted. The following components of vapour intrusion <u>are</u> incorporated within the model:

- 1. Partitioning of contaminants between groundwater, soil and vapour-phase.
- 2. Movement of contaminants in the soil vapour-phase through the unsaturated zone diffusion controlled.
- 3. Movement of contaminants in the soil vapour-phase through the unsaturated zone **advection** controlled for shallow soils beneath a building.
- 4. Movement of contaminants through the building foundation (dust-filled joints and cracks) **advection** controlled.
- 5. Dilution of soil gas vapours within indoor air.

Movement of soil gas vapours through advection forces (pressure differential) is recognised to be more rapid than *via* diffusion, particularly in close proximity to building foundations.

The following components of vapour intrusion are not included in the model:

- 1. Preferential flow paths through foundations (e.g. via large cracks or service entries);
- 2. Biodegradation/bioattenuation during unsaturated zone transport, during intrusion via the foundation or whilst in indoor air.

The output of the J&E model is the calculation of an attenuation factor (α) by the following equation (Equation 10.4 in SR3⁽³⁾):



$$\alpha = \frac{\left[\left(\frac{D_{eff}A_{B}}{Q_{b}L_{T}}\right) \exp\left(\frac{Q_{s}L_{crack}}{D_{crack}A_{crack}}\right)\right]}{\left[\exp\left(\frac{Q_{s}L_{crack}}{D_{crack}A_{crack}}\right) + \left(\frac{D_{eff}A_{B}}{Q_{b}L_{T}}\right) + \left(\frac{D_{eff}A_{B}}{Q_{s}L_{T}}\right) \left[\exp\left(\frac{Q_{s}L_{crack}}{D_{crack}A_{crack}}\right) - 1\right]\right]}$$

Where: α is the steady-state attenuation coefficient between soil and indoor air, dimensionless D_{eff} is the effective diffusion coefficient for unsaturated soils, cm² s⁻¹ A_B is the area of enclosed floor and walls below ground, cm² Q_b is the building ventilation rate, cm³ s⁻¹ L_T is the source-building separation, cm Q_s is the volumetric flow rate of soil gas into the enclosed space, cm³ s⁻¹ [25 to 150] L_{crack} is the foundation slab thickness, cm A_{crack} is the floor crack area, cm² D_{crack} is the effective diffusion coefficient through the cracks, cm² s⁻¹ [= D_{eff}] Note: Appendix 1, Equation A10 where the Peclet number approaches infinity

The attenuation factor (α) is the ratio of the indoor concentration to the concentration in the soil gas for a particular chemical (Equation 10.6 in SR3⁽³⁾) and is a measure of the degree of **reduction** in concentration as VOC migrate into buildings:

$$A = \left[\frac{D_{T}^{eff}}{E_{B}\left(\frac{V_{B}}{A_{B}}\right)L_{T}}\right], \qquad B = \left[\frac{\left(\frac{Q_{soil}}{Q_{B}}\right)E_{B}\left(\frac{V_{B}}{A_{B}}\right)L_{crack}}{D_{crack}^{eff}\eta}\right], \qquad C = \left[\frac{Q_{soil}}{Q_{B}}\right]$$

Identification of critical parameters for the J&E model (1991) was undertaken by Johnson in 2002⁽¹¹⁾. Johnson⁽¹¹⁾ identified three multi-component parameters (termed A, B and C), required to achieve the required J&E model output:

$$C_{air} = \alpha C_{vap} \times 100000 \, cm^3 m^{-3}$$

Where: Cair is the indoor air concentration, mg m⁻³

 α is steady-state attenuation coefficient between soil and indoor air, dimensionless C_{vap} is the soil vapour concentration, mg cm⁻³

Where additional parameters:

E_B is the enclosed space air exchange rate (d⁻¹)

V_B is the enclosed space volume (m³)



(Note – subscript B is not related to multi-component parameter B)

Depending on a variety of situations where movement of soil gas is controlled by either diffusion (slow) or advection (fast), Johnson identified solutions to the J&E model for the calculation of α based solely on the three multi-component parameters *A*, *B* and *C*.

The most **conservative** assumption is where movement of soil gas across the building foundation *via* advection is rate limiting, then:

$\alpha \approx C \approx Q_{soil}/Q_B$

Where: α = attenuation factor

Q_{soil =} soil gas flow into building

 $\mathbf{Q}_{\mathbf{B}}$ = building ventilation rate (cm³ s⁻¹)

For other situations where diffusion is assumed to be either dominant, or occurs in addition to advection (e.g. for a deeper source), then the solutions for α *via* parameters A and B are less conservative.

Assuming that the contaminant source in the soil gas is directly beneath the building foundation and that movement is controlled by advection (i.e. the most conservative assumption), then the attenuation factor α is the ratio of the flux of soil gas migration into the building (Q_{soil}) and the flux of air out of the building (building ventilation rate Q_B).

Guidance in SR3⁽³⁾ provides recommendations for the calculation of the ventilation rate Q_B as follows:

 $C = (H \times A_{foot} \times E_x) \times 1,000,000 \text{ cm}^3 \text{ m}^{-3} \times 1/3600 \text{ s hr}^{-1}$

Where:

H = height of living space (m)

 A_{foot} = building footprint (m²) E_x = building air exchange rate (hr⁻¹)

Approach to Calculation of vGAC

The building ventilation rate Q_B can be calculated for various building types (residential and commercial) using building parameters provided in Tables 3.3 and 4.21 in SR3⁽³⁾, and based on building air exchange rates (E_X) recommended in SR3⁽³⁾ for residential properties (0.5 h⁻¹) and commercial properties (1.0 h⁻¹).

Values for the volumetric flow rate into the building (Q_{soil}) are stated in SR3⁽³⁾, based on a combination of worst-case building parameters and soil type (crack/joint infill), and calculations



provided in Appendix 1 of SR3⁽³⁾, as 25 cm³ s⁻¹ and 150 cm³ s⁻¹ for the residential and commercial land uses, respectively.

The approach to calculating vGAC taken by RSK therefore bypasses direct use of the full J&E model algorithm and uses a simple dilution relationship (Q_{soil} / Q_B), which is more conservative and suitable for screening purposes. This approach also negates the requirement to measure (or assume) a variety of soil and other physical characteristics (e.g. soil volumetric moisture content, total porosity, molecular diffusion in air).

Attenuation factors (α) have been calculated on the basis of the above and are presented in Table 2.

This method of calculating attenuation factors from reasonably conservative vapour entry rates and indoor air exchange rates has been suggested in a recent (2014) paper⁽¹¹⁾ to offer a more technically defensible approach for the development of site specific attenuation factors, compared with a method that uses a comparison between paired, indoor air and sub-slab soil gas data in empirical databases.

As expected, attenuation is typically greater (α is a smaller value) for commercial properties than for residential properties. Calculation of vGAC, specific to both chemical and building type, has been undertaken through division of the HCV, specific to the critical receptor for a given end-use (e.g. residential or commercial), and the corresponding building-specific attenuation factor.

$vGAC = HCV / \alpha$

Health Criteria Values (HCV)

The HCV and background inhalation has been taken from the relevant SGV report⁽¹²⁾, published by Nathanial et al.,⁽⁶⁾ or the CL:AIRE report⁽⁷⁾, as appropriate. The HCV have been amended for commercial, petrol (retail) and residential scenarios as follows:

- Commercial
 - An adult weighing 70kg and breathing 15.7m³ air per day in accordance with the revised exposure parameters used in the SP1010 final project report for the Category 4 Screening Levels (C4SL) (Table 3.2⁽¹³⁾) and USEPA data⁽¹⁴⁾
 - Background inhalation (mean daily intake(MDI)) for an adult (Age Class 17).
 - Background inhalation (mean daily intake (MDI)) for an adult (Age Class 17).
- Residential
 - A child weighing 13.3kg (average of 0-6 year old female in accordance with Table 4.6 of SR3⁽³⁾) and breathing 8.77m³ (average daily inhalation rate for a 0-6yr old female in accordance with SP1010 final project report for the C4SL (Table 3.2⁽¹³⁾) and USEPA data⁽¹⁴⁾
 - Background inhalation (mean daily intake (MDI)) for a child (Age Classes 1-6)



Residential amendments to the MDI for younger age groups following Table 3.4 and Section 3.4.1 of SR2⁽²⁾, amended to reflect average daily inhalation rates in accordance with SP1010 final project report for the C4SL (Table 3.2⁽¹³⁾) and USEPA data⁽¹⁵⁾. Correction factors are presented in Table 1.

Amended HCV are shown in Table 3.

Note on Trimethylbenzenes

For trimethylbenzenes the CL:AIRE report⁽⁷⁾ based background inhalation from non-soil sources (MDI) on a Dutch study from 1985, which is reported to have identified an average daily dose of 1,2,4-trimethylbenzene of 86 ug d⁻¹ (1,3,5-trimethylbenzene was 20.5 ug d⁻¹). This dose value was based on the upper end of the identified concentration range of 1,2,4-trimethylbenzene (2.46 – 5.66 ug m⁻³) and was used to calculate an a MDI of 1.23 ug kg⁻¹ bw d⁻¹ for a 70 kg adult breathing 20 m³ of air daily.

The approach recommended in SR2⁽²⁾, and also adopted for the C4SLs⁽¹³⁾, for non-carcinogenic (threshold) compounds such as trimethylbenzenes is to subtract the MDI from the tolerable daily intake (TDI) to obtain a tolerable daily intake from soil (TDSI) in units of ug kg⁻¹ bw d⁻¹. For 1,2,4-trimethylbenzene, the adult MDI from the Dutch study used in the CL:AIRE report⁽⁷⁾ (1.23 ug kg⁻¹ bw d⁻¹) is a significant proportion of the TDI (2.0 ug kg⁻¹ bw d⁻¹), resulting in a low TDSI (1.0 ug kg⁻¹ bw d⁻¹) when the 50% rule is applied (i.e. TDSI = TDI * 0.5 when MDI is high relative to TDI). This TDSI equates to an Inhalation Reference Concentration (or modified Health Criteria Value) for adults of 3.4 ug m⁻³ (70 kg adult breathing 15.7 m³ d⁻¹).

By comparison the adult inhalation modified HCV for benzene is 6.2 ug m⁻³, which is proven human carcinogen (non-threshold compound).

The MDI for 1,2,4-trimethylbenzene is considered by RSK to be overly conservative for the following reasons:

- The Dutch 1985 study is dated and air quality has improved since this time
- The maximum value in the range (5.66 ug m⁻³) was used in calculating the MDI
- Experience has shown that trimethylbenzenes often appear to drive inhalation risks to a greater extent than benzene, even though the latter is carcinogenic and more volatile.

As an alternative to the 1985 Dutch study, RSK have obtained automated roadside air quality monitoring data for the UK from www.uk-air.defra.gov.uk/. The average concentration of 1,2,4-trimethylbenzene measured during 2015 at Eltham, south-east London (urban) was 0.309 ug m⁻³, significantly lower than that identified in the Dutch study and used by CL:AIRE⁽⁷⁾ for calculation of a MDI. Whilst an average concentration of 1,2,4-trimethylbenzene in UK urban and rural areas is likely to be significantly below 0.0.309 ug m⁻³, this value is considered to be suitably conservative for the calculation of a modified HCV for trimethylbenzenes in the UK.

On this basis, the HCV for 1,2,4-trimethylbenzene for adults and children was calculated as 8.5 ug m⁻³ (0.0085 mg m⁻³) and 2.6 ug m⁻³ (0.0026 mg m⁻³), respectively (see Table 3). Due to the paucity of toxicological data for 1,2,3-trimethylbenzene and 1,3,5-trimethylbenzene the modified HCV for 1,2,4-trimethylbenzene is considered suitable for assessing total trimethylbenzenes.



RSK vGAC

RSK vGAC are presented in Table 4 for residential and commercial end-uses for common VOC and have also been calculated for common semi-volatile organic chemicals (sVOC), which may also have the potential to pose inhalation exposure risks.

RSK vGAC are simple screening criteria, in line with the principles of the CLEA model and the derivation of GAC, and are considered to be suitably conservative for use in a GQRA for the following reasons:

- Calculation of attenuation factors is based on the conservation assumption that the source lies directly beneath the foundation and that no additional depletion *via* diffusion occurs, i.e. attenuation is attributed solely to the dilution of soil gas as it moves through the foundation into indoor air
- The vGAC are applicable to the most conservative soil type
- Volumetric flow rate into buildings (Q_{soil}) is based on a combination of a sandy loam soil and parameters for a worst-case building type
- Biodegradation of VOC is not taken into account. Biodegradation of petroleum hydrocarbons can potentially attenuate soil gas concentrations and vapour intrusion by several orders of magnitude⁽¹⁵⁾.

RSK vGAC listed in Table 4 have been calculated for the most conservative residential (small terraced house) and commercial buildings (pre-1970 office). vGAC may be calculated for other residential and commercial buildings *via* attenuation factors listed in Table 1 and modified HCV listed in Table 3.

Uncertainties/Limitations

The use of the J&E model⁽¹⁰⁾ is considered to be inappropriate for site conditions where NAPL is present and potentially for use with modelling chlorinated hydrocarbons. The simplified RSK approach described negates these limitations provided representative soil gas concentrations are measured.

Use of the vGAC should only be undertaken with **detailed knowledge of the conceptual model and an understanding of the potential limitations in data** for the site and should be used as part of a multiple lines of evidence approach to assessing vapour intrusion. Note that the compounds listed in tables are not exhaustive and VOC not listed may have the potential to pose an indoor inhalation risk.

vGAC listed in Table 4 may not be relevant or suitably protective where VOC migration is dominated by ground gas (carbon dioxide and methane) pressure driven flow or where other mechanisms leading to VOC exposure from soils (e.g. ingestion, dermal, dust inhalation) are active. vGAC may also not be relevant where the direct impact of foundation structures with impacted groundwater or NAPL occurs.



vGAC are not to be used for screening indoor or outdoor air quality results, where direct inhalation exposure is possible. In this scenario relevant inhalation HCV are suitable for use as screening criteria (for acceptable exposure) such as those in Table 3.

The conceptual model associated with the vGAC does not consider vapour intrusion along drainage pipes/backfill and migration into a building.

Age Class	Body weight (kg) ¹	Inhalation rate (m ³ /day) ²	Correction factor for inhalation MDI ³
1	5.6	5.4	0.34
2	9.8	8	0.51
3	12.7	8.9	0.57
4	15.1	10.1	0.64
5	16.9	10.1	0.64
6	19.7	10.1	0.64
17	70	15.7	-
Mean (AC1-6)	13.3	8.8	0.56
NI (

Table 1: Correction factors used to adjust adult MDI to younger age groups

Notes

¹Body weight from CLEA v1.06

 2 Inhalation rate from Table 3.2 of the SP1010 final project report for the $\mbox{C4SL}^{(13)}$

 3 Inhalation correction factors are the ratio of the average male and female inhalation rates for each age class to the adult rate at age class 17 (age 16–59 years) and are based on the rates used by the Category 4 Screening Levels to derive the C4SLs⁽¹³⁾,following the methodology in SR2⁽²⁾.



Table 2: α Attenuation Factors for a Variety of Residential and Commercial Buildings.

Receptor	Building Living Space Height - H (m) ^a	Building Footprint A _{foot} (m ²) ^a	Building Air Exchange Rate (hr ⁻¹) ^a	Building Ventilation Rate Q _B (cm ³ s ⁻¹) ^b	Soil Gas Flow Rate into Building Q _{soil} (cm ³ s ⁻¹) ^c	Attenuation Factor - Alpha = Q _{soil} /Q _B ^d	Degree of Attenuation
Residential - Bungalow	2.4	78	0.5	22472	25	0.00096	1040
Residential - Small Terrace House	4.8	28	0.5	9250	25	0.00134	747
Residential - Medium/Large Terrace House	4.8	44	0.5	13694	25	0.00085	1173
Residential - Semi-Detached House	4.8	43	0.5	13417	25	0.00087	1147
Residential - Detached House	4.8	68	0.5	20361	25	0.00055	1813
Commercial - Warehouse (pre-1970)	5.2	1089	1	304222	150	0.00008	12584
Commercial - Warehouse (post-1970)	5.9	1914	1	533583	150	0.00004	25095
Commercial - Office (pre-1970)	10.2	424	1	120889	150	0.00010	9611
Commercial - Office (post-1970)	13	610	1	173333	150	0.00006	17622

Notes:

 $^{\rm a}$ From Table 3.3 and 4.21, SR3 $^{\rm (3)}$ $^{\rm b}$ Equation 10.5, SR3 $^{\rm (3)}$

^c Generic flow rate, Section 10.3, SR3⁽³⁾

^d Most conservative assumption where advection across foundation is rate limiting⁽⁸⁾



Table 3: Amended Health Criteria Values

	Modified HC	CV (mg/m ³) ¹				
VOC / SVOC	Child (Residential)	Adult (Commercial)				
МТВЕ	1.0803	3.2064				
Benzene	0.0021	0.0062				
Toluene	2.1164	6.2362				
Ethylbenzene	0.1113	0.3301				
Xylenes	0.0808	0.2586				
Trimethybenzenes	0.0026	0.0085				
TPH_Aliph EC5-EC6	3.7913	11.1465				
TPH_Aliph >EC6-EC8	3.7913	11.1465				
TPH_Aliph >EC8-EC10	0.2199	0.6465				
TPH_Aliph >EC10-EC12	0.2199	0.6465				
TPH_Aliph >EC12-EC16	0.2199	0.6465				
TPH_Arom >EC8-EC10	0.0455	0.1338				
TPH_Arom >EC10-EC12	0.0455	0.1338				
TPH_Arom >EC12-EC16	0.0455	0.1338				
Acenaphthene	0.0910	0.2675				
Acenaphthylene	0.0910	0.2675				
Naphthalene	0.0011	0.0037				
Vinyl chloride	0.0005	0.0013				
Dichloroethane-1,2	0.0002	0.0005				
Tetrachloroethene	0.0083	0.0363				
Carbon tetrachloride	0.0025	0.0114				
Trichloroethane-1,1,1	0.9099	2.6752				
Trichloroethene	0.0009	0.0025				
Tetrachloroethane 1,1,2,2 & 1,1,1,2	0.0086	0.0257				
1,1,2-Trichloroethane	0.0073	0.0216				
1,1-dichloroethane	0.3030	0.8915				
1,1-dichloroethene	0.0864	0.2541				
Chloroethane	4.3318	12.7374				
Chloromethane	0.0039	0.0115				
cis-1,2-dichloroethene	0.0087	0.0264				
Dichloromethane	0.1781	0.5765				
trans-1,2-dichloroethene	0.0253	0.0754				
Trichloromethane (chloroform)	0.0570	0.1752				
¹ Inhalation HCV has taken account of background inhalation for threshold compounds only						



Table 4: RSK vGAC – Single Exposure Route

	vGAC (mg/m³)		
Volatile Organic Compound	Residential (Small Terrace House)	Commercial (Office pre-1970)	
Attenuation factor (α)	0.00134	0.00010	
МТВЕ	807	25679	
Benzene	1.59	49.99	
Toluene	1580	49945	
Ethylbenzene	83.1	2644	
Xylenes	62.3	2089	
Trimethybenzenes	1.9	68.3	
TPH_Aliph EC5-EC6	2831	89271	
TPH_Aliph >EC6-EC8	2831	89271	
TPH_Aliph >EC8-EC10	164	5178	
TPH_Aliph >EC10-EC12	164	5178	
TPH_Aliph >EC12-EC16	164	5178	
TPH_Arom >EC8-EC10	34	1071	
TPH_Arom >EC10-EC12	34	1071	
TPH_Arom >EC12-EC16	34	1071	
Acenaphthene	68	2142	
Acenaphthylene	68	2142	
Naphthalene	0.82	29.3	
Vinyl chloride	0.34	10.7	
Dichloroethane-1,2	0.14	4.3	
Tetrachloroethene	6.23	291	
Carbon tetrachloride	1.8457	91	
Trichloroethane-1,1,1	679	21425	
Trichloroethene	0.6	20	
Tetrachloroethane 1,1,2,2 & 1,1,1,2	6.5	206	
1,1,2-Trichloroethane	5.4	173	
1,1-dichloroethane	226	7140	
1,1-dichloroethene	65	2035	
Chloroethane	3234	102012	
Chloromethane	2.9	91.8	
cis-1,2-dichloroethene	6.5	211	
Dichloromethane	133	4617	
trans-1,2-dichloroethene	18.9	604	
Trichloromethane (chloroform)	42.6	1403	



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SELECTION OF GENERIC ASSESSMENT CRITERIA FOR CONTROLLED WATERS

Protection of the water environment

The water environment in the United Kingdom is protected under a number of regulatory regimes. The relevant environmental regulator is consulted where there may be a risk that pollution of 'controlled waters' may occur or may have occurred in the past.

The term 'controlled waters' refers to coastal waters, inland freshwaters and groundwater. The EU Water Framework Directive (WFD) (2000/60/EC) is implemented via domestic regulations and guidance, covering aspects of groundwater and surface water protection as well as drinking water supply policy. Domestic legislation and guidance will vary across the United Kingdom. Therefore, the relevant legislation for England, Wales, Northern Ireland and Scotland should be reviewed, alongside guidance provided by the Environment Agency (EA), Natural Resource Wales (NRW), the Scottish Environmental Protection Agency (SEPA) or the Northern Ireland Environment Agency (NIEA), as appropriate.

The main objectives of the protection and remediation of groundwater under threat from land contamination are set out within "The Environment Agency's approach to groundwater protection", version 1.0 (March 2017)⁽¹⁾ and the associated guidance "Land contamination groundwater compliance points: quantitative risk assessments (March 2017)^(1a) that have replaced the previous guidance document "Groundwater Principles and Practice (GP3)". When assessing risks to groundwater, the following need to be considered:

- Where pollutants have not yet entered groundwater, all necessary and reasonable measures must be taken to:
 - prevent the input of hazardous substances into groundwater (see description of hazardous substances below)
 - *limit* the entry of other (non-hazardous) pollutants into groundwater to avoid pollution, deterioration in the status of groundwater bodies and to prevent sustained, upward trends in pollutant concentrations in groundwater.
- Where pollutants have already entered groundwater, the priority is to take all necessary and reasonable measures to:
 - *minimise* further entry of "contaminants" where there is a defined source
 - *limit the pollution* of groundwater or any effect on the status of the groundwater body from the future expansion of the 'plume', if necessary, by actively reducing its extent.

Within the context of groundwater risk assessments on sites affected by land contamination, "reasonable" means feasible without involving disproportionate costs. What costs are "disproportionate" depends on site-specific circumstances, which may include:

- Considerations of technical feasibility such as identified by the remedial options appraisal, this may be due to the distribution or nature of the contamination and the available remedial methods to treat the identified contamination;
- Sustainability considerations.



Selecting the appropriate assessment criteria

When assessing the risks to controlled waters, various assessment criteria apply, depending on the nature of the assessment and the conceptual site model.

A simple flow chart is included on the next page to inform selection of the appropriate target concentrations when considering potential risks to controlled waters, in keeping with the principles of "prevent / limit".

Where a surface water body is considered as the primary receptor, then Environmental Quality Standards (EQS) defined within The Water Framework Directive (Standards and Classification) Directions (England and Wales)⁽²⁾ are the relevant assessment criteria as they are designed to be protective of surface water ecology.

Where a public water supply or a Principal aquifer is considered the primary receptor, then the standards defined in The Water Supply (Water Quality) Regulations⁽³⁾ are the main source of assessment criteria. The Private Water Supplies Regulations⁽⁴⁾ may also be applicable in some cases.

For instances where there are **<u>no statutory</u>** UK assessment criteria, then other available, nonstatutory assessment criteria may be used where necessary, and where justified by the conceptual site model. Available non-statutory assessment criteria for the purposes of this contract include GAC based on aquatic toxicity factors (ATF) for fresh and marine waters⁽⁵⁾, Risk Based-Screening Levels (RBSLs) derived by GSI Environmental for Shell Downstream Sites which are applicable to water intended or used for ingestion and other domestic uses within a residential setting⁽⁶⁾ and the World Health Organisation (WHO) drinking water guidelines⁽⁷⁾.

This appendix presents the generic assessment criteria (GAC) that RSK considers suitable for assessing risks to controlled waters for our most commonly encountered determinants.

The RSK GAC for controlled waters are presented in **Table 1** and **Table 2**. In line with the Environment Agency's Remedial Targets Methodology⁽⁸⁾, the GAC for controlled waters are termed 'target concentrations'.

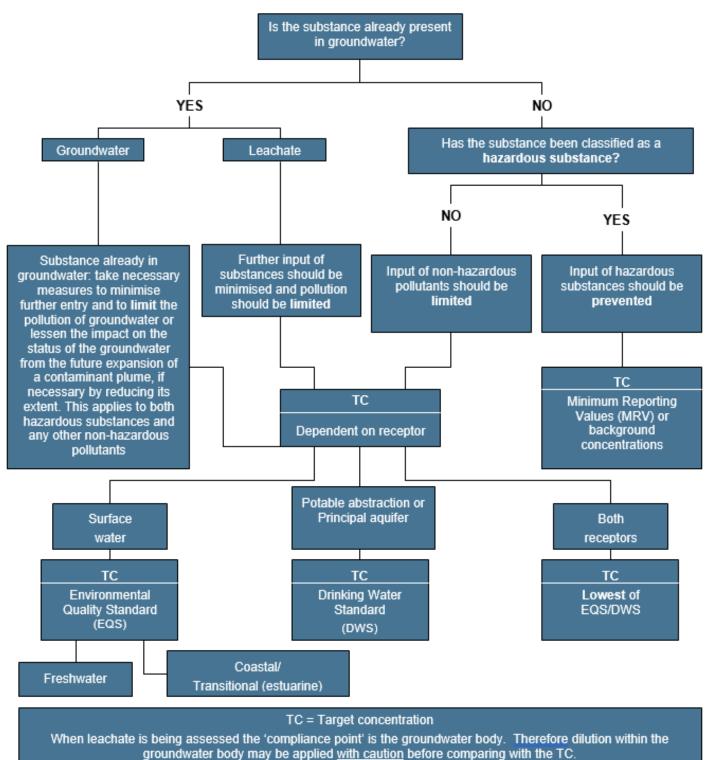
The appropriate target concentrations should be selected with consideration to:

- The site conceptual model (i.e. the receptor at potential risk);
- Whether the substance is already present in groundwater at the site;
- Whether or not the substance is classified as a priority hazardous substance under the Priority Substances Directive (2013/39/EC) (see above), or as a hazardous substance according to the current list of JAGDAG determinations⁽⁹⁾; and
- Background concentrations in the aquifer (if applicable).

It is important to remember that the WFD and Environment Agency guidance^(1 & 1a) advocate for a sustainable, risk-based approach be applied to groundwater contamination. Exceedance of any target concentration does not necessarily imply that an unacceptable risk exists or that remediation is inevitably required.



FLOW CHART TO ASSIST WITH SELECTION OF TARGET CONCENTRATIONS



groundwater body may be applied <u>with caution</u> before companing with the FC.

When directly assessing a receptor, e.g., a river, the appropriate TC should be selected.



TARGET CONCENTRATIONS FOR CONTROLLED WATERS

Target concentrations shaded in green are	Target concentrations shaded in orange are non-	LTOT: Target concentration based on the lowest of available taste and odour thresholds
statutory values	statutory values	RBSL: Target concentration based on a risk based screening level (derived to be protective of groundwater ingestion in a domestic setting)

Note: Units µg/I throughout

Table 1: Target concentrations for controlled waters (excluding TPH CWG fractions)

Substance classification			Target concentrations (µg/I)					
			Minimum	UK drinking water	EQS or best equivalent			
Groundwater receptors ⁽⁹⁾	Surface water receptors ⁽²⁾	Determinant	reporting value	standard (or best equivalent)	Freshwater	Transitional (estuaries) and coastal waters		
	Lead scavengers							
Non-hazardous pollutant	Priority substance	1,2-Dichloroethane (EDC)	1.0 ⁽¹⁰⁾	3.0 ⁽³⁾	10 ^(2a)	10 ^(2a)		
Hazardous		1,2-Dibromoethane		LTOT: -				
substance	-	(EDB)	-	RBSL: 1.90 ⁽⁶⁾	-	-		
	Semi-volatile organic compounds (SVOC)							
Non-hazardous	Priority	Naphthalene		LTOT: 21 ⁽¹¹⁾	2 ^(2a)	2 ^(2a)		
pollutant		(C10-C12)	-	RBSL: 150 ⁽⁶⁾	2,,	Ζ ⁽²⁰⁾		



Substance classification			Target concentrations (µg/I)						
		-	Minimum	UK drinking water	EQS or best equivalent				
Groundwater receptors ⁽⁹⁾	Surface water receptors ⁽²⁾	Determinant	reporting value	standard (or best equivalent)	Freshwater	Transitional (estuaries) and coastal waters			
Hazardous substance	Priority hazardous substance(s)	Benzo(a)pyrene (C16-C35)	-	0.01 ⁽³⁾	0.00017 ^(2a)	0.00017 ^(2a)			
	Petroleum hydrocarbons								
Hazardous substance	-	Total petroleum hydrocarbons*	-	See Table 2 for individual (non-statutory) TPH CWG fractions with respect to drinking water receptors	See individual risk driving compounds (i.e BTEX and PAH) for specific EQS				
Hazardous substance	Priority substance	Benzene (Aro EC5-EC7)	1 ⁽¹⁰⁾	1 ⁽³⁾	10 ^(2a)	8 ^(2a)			
Hazardous	Specific pollutant	Toluene	4 ⁽¹⁰⁾	LTOT: 42 ⁽¹²⁾	74 ^(2a)	74 ^(2a)			
substance	Specific polititant	(Aro EC7-EC8)	4,	RBSL: 480 ⁽⁶⁾	74,	74			
Hazardous	_	Ethylbenzene	_	LTOT: 29 ⁽¹³⁾	118 ^(5a)	118 ^(5a)			
substance		(Aro EC8-EC10)		RBSL: 590 ⁽⁶⁾	110				
Hazardous	-	Xylenes		LTOT: -	EA operatio	onal target: 30 ^(2g)			
substance		(Aro EC8-EC10)	3 ⁽¹⁰⁾	RBSL: 1,200 ⁽⁶⁾	ATF: 290 ^(5a)	ATF: 290 ^(5a)			
	I	E	ther oxygenate	es					
Non-hazardous	-	Methyl tertiary butyl ether	-	LTOT: 20 ⁽¹⁴⁾	51,000 ^(5b)	18,000 ^(5b)			
pollutant		(MTBE)		RBSL: 2,300 ⁽⁶⁾					
		Ethyl tert-butyl ether		LTOT: 13 ⁽¹⁵⁾	11 100 ^(5b)	2 400 ^(5b)			
(Not determined)	-	- (ETBE)		RBSL: 1,700 ⁽⁶⁾	11,100 ^(5b)	3,400 ^(5b)			



Substance classification			Target concentrations (µg/I)				
				UK drinking water	EQS or best equivalent		
Groundwater receptors ⁽⁹⁾	Surface water receptors ⁽²⁾	Determinant	Minimum reporting value	standard (or best equivalent)	Freshwater	Transitional (estuaries) and coastal waters	
		Ether of	xygenates (cor	ntinued)			
		Tert-amyl methyl ether		LTOT: 128 ⁽¹⁵⁾		3,400 ^(5b)	
(Not determined)	-	(TAME)	-	RBSL: 800 ⁽⁶⁾	9,500 ^(5b)		
		Diisopropyl ether (DIPE)	-	LTOT: 0.8 ⁽¹⁵⁾	0 5 00(5b)	7,600 ^(5b)	
(Not determined)	-			RBSL: 440 ⁽⁶⁾	9,500 ^(5b)		
				LTOT: -			
(Not determined)	-	Tert-butyl alcohol (TBA)	-	RBSL: 7,500 ⁽⁶⁾	-	-	
			Miscellaneous				
		0 Mathud a said that area		LTOT:10 ⁽¹¹⁾	00(5c)	00 (5c)	
(Not determined)	-	2-Methyl naphthalene	-	RBSL: 28 ⁽⁶⁾	20 ^(5c)	20 ^(5c)	
		Llavana		LTOT: -	50 ^(5c)	50 ^(5c)	
(Not determined)	-	Hexane	-	RBSL: 310 ⁽⁶⁾	50(00)		

* "Total petroleum hydrocarbons" is used for consistency, but is an analytical method-defined measurement for a mixture of hydrocarbons subject to environmental analysis⁽¹¹⁾.



Table 2: Non-statutory target concentrations available for TPH CWG fractions in groundwater with potential drinking water use

TPH CWG fraction	Overall relative mobility in groundwater (as ranked in CL:AIRE, 2017 ⁽¹⁶⁾)	Non-statutory target concentrations for drinking water receptors (µg/l)
Aliphatic fractions:		
Aliphatic EC5-EC6	High	RBSL: 30,000 ⁽⁶⁾
Aliphatic >EC6-EC8	Moderate	RBSL ⁽⁶⁾ exceeds the aqueous solubility limit for this fraction WHO DWS: 15,000 ⁽⁷⁾
Aliphatic >EC8-EC10	Low	RBSL ⁽⁶⁾ exceeds the aqueous solubility limit for this fraction WHO DWS: 300 ⁽⁷⁾
Aliphatic >EC10-EC12	Low	RBSL ⁽⁶⁾ exceeds the aqueous solubility limit for this fraction WHO DWS: 300 ⁽⁷⁾
Aliphatic >EC12-EC16	Very low	RBSL ⁽⁶⁾ exceeds the aqueous solubility limit for this fraction WHO DWS: 300 ⁽⁷⁾
Aliphatic >EC16-EC21	Very low	RBSL ⁽⁶⁾ exceeds the aqueous solubility limit for this fraction WHO DWS: N/A ⁽⁷⁾
Aliphatic >EC21-EC35	-	-
Aromatic fractions:		
Aromatic EC5-EC6	High	Refer to benzene: Statutory DWS of 1 ⁽³⁾
Aromatic >EC6-EC8	High	Refer to toluene: LTOT: 42 ⁽¹²⁾ or RBSL: 480 ⁽⁶⁾
Aromatic >EC8-EC10	High	Refer to ethyl benzene: LTOT: 29 ⁽¹³⁾ or RBSL: 590 ⁽⁶⁾ OR Refer to xylene: RBSL: 1,200 ⁽⁶⁾
Aromatic >EC10-EC12	Moderate	RBSL: 250 ⁽⁶⁾
Aromatic >EC12-EC16	Moderate	RBSL: 270 ⁽⁶⁾
Aromatic >EC16-EC21	Low	RBSL: 260 ⁽⁶⁾
Aromatic >EC21-EC35	Very low	RBSL ⁽⁶⁾ exceeds the aqueous solubility limit for this fraction WHO DWS: 90 ⁽⁷⁾



References

- 1. Environment Agency (2017), 'The Environment Agency's approach to groundwater protection', version 1.0, March 2017 (formerly contained within GP3).
- 1a. Environment Agency (2017), 'Land contamination groundwater compliance points: quantitative risk assessments', March 2017 (formerly contained within GP3).
- 2. The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.
 - 2a. The EQS for these substances are based on a "long term mean" or an "annual average (AA)" EQS.
 - 2b. For cadmium and its compounds the EQS values vary depending on the hardness of the water as specified in five class categories (Class 1: < 40 mg CaCO3/I, Class 2: 40 to < 50 mg CaCO3/I, Class 3: 50 to < 100 mg CaCO3/I, Class 4: 100 to < 200 mg CaCO3/I and Class 5: ≥ 200 mg CaCO3/I).
 - 2c. The EQS for Mercury and hexachlorobutadiene are based on a "maximum acceptable concentration (MAC)" EQS in absence of an "annual average (AA)" EQS.
 - 2d. The EQS for chlorine in saltwater is based on the 95th percentile concentration of total residual oxidant, which refers to the sum of all oxidising agents existing in water, expressed as available chlorine.
 - 2e. The recommended saltwater standard is derived using a safety factor of 100. Where the standard is failed, it is recommended that supporting evidence of ecological damage should be obtained before committing to expensive action.
 - 2f. EQS for total ammonia is as per Schedule 3, Part 1, Table 7 of of the above directions. EQS applies to river types 1, 2 and 4 and 6 (namely upland and low alkalinity). The EQS for a lowland and high alkalinity rivers (types 3, 5 and 7) is 600µg/l (0.6mg/l).
 - 2g. Note that the xylene EQS is an Environment Agency "operational" target and is not listed in the 2015 Directions:

Additional information on the Metal Bioavailability Assessment Tool (M-BAT) is available at http://www.wfduk.org/resources/rivers-lakes-metal-bioavailability-assessment-tool-m-bat

- The Water Supply (Water Quality) Regulations 2000 (SI 2000/3184), as amended by SI 2001/2885, SI 2002/2469, SI 2005/2035, SI 2007/2734 and SI 2010/991
 - 3a. Sum of chloroform, bromoform, dibromochloromethane and bromodichloromethane
 - 3b. Standard applies to individual pesticides except aldrin, dieldrin, heptachlor and heptachlor epoxide, for which a separate standard is defined.
- 4. The Private Water Supplies (England) Regulations 2016. SI 2016/618
- 5. GAC based on aquatic toxicity factors (ATF) for fresh and marine waters as determined within:
 - 5a: Review and Development of Shell Guideline Surface Water Ecology Criteria for BTEX (2013). Shell Health Report HE 13.044, Shell Global Solutions International BV. The Hague, Netherlands.
 - 5b: Review and Development of Shell Guideline Surface Water Ecology Criteria for Ether Oxygenates (2013). Shell Health Report HE 13.054, Shell Global Solutions International BV. The Hague, Netherlands.
 - 5c: Review and Development of Shell Guideline Surface Water Ecology Criteria for Naphthalene, 2-Methylnaphthalene and n-hexane (2013). Shell Health Report HE 13.064. November 11, 2013, Shell Global Solutions.



- GSI Environmental, Universal Human Health Risk-Based Screening Level (RBSL) Tables for Shell Downstream Sites, October 2014. Target concentrations applicable to water intended or used for ingestion and other domestic uses within a residential setting – "Standard" residential exposure selected as best analogy for UK housing exposure.
- 7. World Health Organisation (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organisation, Geneva.
- 8. Environment Agency, 2014. Land Contamination: Remedial Targets Methodology (RTM). Hydrogeological risk assessment guidance and tool to set targets to remediate (clean up) contaminated land or groundwater.
- 9. JAGDAG hazard substance determinations (January 2019): This list contains substances that are determined to be hazardous substances or non-hazardous pollutants for the purposes of the groundwater directive 2006/118/EC. https://www.wfduk.org/stakeholders/jagdag [accessed 1 February 2021] The absence of an assessment or substance from the list means an assessment has not been completed and is therefore presented as 'Not determined'. For further details on how substances are assessed, see the Joint Agencies Groundwater Directive Advisory Group (JAGDAG) 'Methodology for the determination of hazardous substances in groundwater for the purposes of the groundwater directive 2006/118/EC' which is available from the JAGDAG website. The methodology is a UK –wide framework that sets criteria for how to assess whether a substance is a hazardous substance in groundwater.
- Minimum reporting values listed in Annex (J) of Horizontal Guidance Note H1 (H1 Environmental Risk Assessment Framework, Environment Agency, April 2010 v2.0). Note target concentration for xylenes is 0.003mg/l each for o-xylene and m/p xylene)
- 11. ATSDR 2005. Toxicological Profile for Naphthalene, 1-Methylnaphthalene and 2-Methylnaphthalene. Agency for Toxic Substances and Disease Registry, US Department of Health and Human Services.
- 12. ATSDR 2000. Toxicological Profile for Toluene. Agency for Toxic Substances and Disease Registry, US Department of Health and Human Services. September 2000.
- 13. ATSDR 2010. Toxicological Profile for Ethyl benzene. Agency for Toxic Substances and Disease Registry, US Department of Health and Human Services. November 2010.
- 14. Vetrano, 1993. Final report to ARCO Chemical Company in the odor and taste threshold studies performed with methyltertuary-butyl ether (MTBE) and ethyl tertiary-butyl ether (ETBE), Environ. Toxicol. Chem., 20, 1125-1132.
- 15. Shell, 2004. Toxicity Factors and Risk-Based Screening Levels for DIPE, ETBE, TAME and TBA. OG.04.50728, Shell Global Solutions, Houston, TX.
- CL:AIRE, 2017. Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies. (Version 1.1, 29 March 2017).



DEFINITIONS AND SUBSTANCE CLASSIFICATIONS

Risks to surface waters:

When assessing risks to surface waters, the following list of definitions should be understood:

Priority substances (PS) are harmful substances originally identified under the Water Framework Directive (WFD) 2000/60/EC as substances 'presenting a significant risk to or via the aquatic environment' at a European level. Member States are required to incorporate the identified **PS** into their country-wide monitoring programmes. There are currently 33 **PS** defined within the Priority Substances Directive (2013/39/EU; Annex 1), with a further 12 additional substances due to come into force from 22 December 2018. Directive 2013/39/EU has been transposed into domestic legislation for England and Wales by The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015⁽²⁾.

Under the umbrella of **PS**, there is a sub-set of substances identified as being "hazardous", and these are referred to as **Priority hazardous substances (PHS)**. The list of **PHS** is defined at EU level within the Priority Substances Directive (2013/39/EU). The WFD defines hazardous substances as 'substances (or groups of substances) that are toxic, persistent and liable to bio-accumulate, and other substances or groups of substances that give rise to an equivalent level of concern.' There are currently **21 PHS** (previously 15 PHS, with a further 6 substances added in 22 December 2018).

There is also another group of substances defined at EU level and which are referred to as **other pollutants (OP)** in Directive 2013/39/EU. These are additional substances which although not **priority substances**, have EQS which are identical to those laid down in the legislation which applied prior to 13 January 2009 (Directive 2008/105/EU). The **OP** are listed along with the **priority substance (PS)** within the Priority Substances Directive (2013/39/EU), and their associated EQS are also listed therein. There are 6 **OP** defined within the Priority Substances Directive (2013/39/EU).

In addition to the EU level substances, there are also a group of pollutants defined at a Member State level, referred to as **Specific pollutants (SP)**. These substances are pollutants which are released in significant quantities into water bodies in each of the individual European Member States. Under the WFD, Member States are required to set their own EQS for these substances. An indicative list of **SP** is given in Annex VIII of the WFD. Many of the substances categorised as **SP** in the UK were formerly List 2 substances under the old Groundwater Directive (80/68/EEC). The **SP** are defined within Part 2 (Table 1) of The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015⁽²⁾.

Risks to groundwater:

When assessing risks to groundwater, the following definitions should be understood:

Under the requirements of the Groundwater Daughter Directive (2006/118/EU), the UK has published a list of substances it considers to be **hazardous substances** with respect to groundwater. In their advisory capacity to the government, this list has been derived by the UK Joint Agencies Groundwater Directive Advisory Group (JAGDAG), of which the Environment Agency is a member. The latest JAGDAG list of **hazardous substances** was published in January 2019⁽⁹⁾ and the Environment Agency will use the updated list of hazardous substances from this date for all new activities that may lead to the discharge of hazardous substances to groundwater. The list is extensive and can be found in full at:

https://www.wfduk.org/stakeholders/jagdag



APPENDIX O SUSTAINABILITY CONSIDERATIONS

APPENDIX O GENERIC SUSTAINABILITY CONSIDERATIONS

APPROACH TO SUSTAINABILITY FOR PHASE 1, PHASE 2 AND RISK ASSESSMENT PROJECTS

Sustainability is inherent within RSK's business culture and daily operations through ISO14001. RSK has staff at over 100 locations globally. RSK strives to find innovative and more sustainable methods of working. For example, local offices are utilised where project work and staff competencies allow, deliverables are issued electronically, low-flow sampling is used to reduce waste water.

RSK's operates according to 9 key principles. These are:

- 1. Hiring, retaining and rewarding talented and dedicated people
- 2. Building enduring client relationships
- 3. Encouraging continuous improvement and innovation
- 4. Promoting a learning culture in a positive working environment
- 5. Marking strategic investments for sustainable growth
- 6. Committing to strong, predictable financial performance
- 7. Maintaining unwavering commitment to health and safety
- 8. Promoting the concept of sustainability in all that we do
- 9. Encouraging staff consultation and clear communication

The principle that specifically relates to sustainability is to '*promote the concept of sustainability in all that we do*' although social, economic and environmental considerations are relevant to each of the 9 principles above. Based on these principles and the United Nations Sustainable Development Goals we have built our Corporate Responsibility and Sustainability Route Map around five sustainability pillars to form a holistic approach to our business sustainability strategy.

An example from each of the five sustainability pillars (safety, health and quality (SHEQ), our people and ethics, environment and communities, clients and suppliers, financial and governance) is overleaf. RSK's route map can be found in its entirety on the RSK website.

We are committed to reviewing progress made towards our sustainability targets and goals by publishing a Route Map Annual Report to demonstrate we are addressing the global sustainability challenge.

Individual offices have a nominated CR representative who works with the office manager to implement energy saving practices where possible. RSK has also selected a UK wide supplier of electricity which uses renewable sources (where RSK has control of the electricity supply contract) and implemented vehicle charge points.

Sustainability pillar	Sub topic		Corporate resp	onsibility targets		Our Goal
Financial year	-	2019	2020	2021	2022	
Safety, health and quality (SHEQ),	Safety:	100% of all workers covered by the SHEQ management system (MS)	All RSK staff trained in Golden Safety Rules	Driver and vehicle management training for all business drivers	100% of worker have completed behavioural safety training module	Collective commitment to getting safety right UNSDG 17
Our people and ethics,	Inclusivity	Gender pay gap reported publicly	Equality and inclusivity training module rollout	80% retention rate of employees returning to work after parental leave	Develop and roll out agile working policy	Be a fully inclusive employer UNSDG 10 & 5
Environment and communities,	Resource efficiency and waste	Establish innovative waste management centre in southern Iraq	Report water use for all offices and implement an action plan for reducing water use	RSK-wide green travel plan	50% of waste diverted from landfill across all operations	Produce less waste and promote the circular economy in all we do UNSDG 11, 12, 13
Clients and suppliers,	Relationship management	Engagement strategy developed for business-critical suppliers	60% of business is repeat business	90% of invoices paid within agreed terms (clients and suppliers)	70% of business is repeat business	All our business relationships to be mutually beneficial UNSDG 8, 9, 17
Financial and governance	Business probity	Business critical documents associated with ethics and compliance available on the intranet	Training about anti-corruption policies and procedures for all staff	Update audit protocol for corporate compliance issues	Update risk assessment process for 3 countries where clients are looking to procure our services	Exemplary professional integrity at all times UNSDG 8, 16

SUSTAINABILITY FOR SHELL PROJECTS

Sustainability is implemented in Shell projects by RSK already using the methods mentioned earlier. Specifically for Shell, sustainability is incorporated at various stages of the E2E plans. At project commencement sustainability and risk-based decision making are linked to the business objectives. Once investigation work is required, best management practices (BMPs) are identified and reported (termed Tier 0).

Tier 0 – Best Management Practices

Where feasible, many BMPs such as those listed below and presented in the accompanying table are already utilised on the majority of projects in accordance with the RSK principles above, where technically appropriate for the specific project. RSK has identified a list of BMPs with methods of measurement and reporting that can be used as a checklist during desk-based and site investigation work. For each investigation undertaken one or two of these can be selected, the rationale for its selection reported and performance against the BMP reviewed. For example, if a BMP of using local resource and local subcontractors is selected a review could be undertaken against the distance driven to and from site each month. A full list of BMPs relevant to general work and, phase 1 and 2 investigations are presented in the accompanying table in this appendix.

BMP	Benefit / Impact		Measurement	UN SDG	
	Social	Economic	Environment		
Use local resource	People away from home less	Generates local employment Less travel costs	Reduced emissions	Mileage by staff and subcontractors	4.4, 8.1, 8.4, 8.8, 11.6, 12.4
RSK site personnel are trained to operate effectively and safely	Investment in staff, reduce accidents	Reduced liability, reduced sick days	Reduced emissions	Training records, Annual PDR	3.6, 3.9, 4.4, 4.7, 8.3, 8.8, 12.4, 12.6
Maintain vehicles	Reduce accidents	More fuel efficient, reduced repair costs	Reduced emissions	Vehicle maintenance checklist	11.6, 13.2
Conference calls	Less face to face time for building relationships	Reduced travel costs	Reduced emissions	Reason for travel	3.6, 5.5, 5.B, 8.2, 11.6, 12.6
Use low-flow sampling techniques	Truer reflection of dissolved phase impact and thus more certainty in decision making	Reduced waste disposal costs	Reduced waste production	Sampling methodology employed on projects	9.4, 6.3, 12.5
Use onsite testing kits	Time saving and thus faster decision making	Reduced laboratory costs where onsite testing is cheaper	Reduced waste owing to fewer samples analysed	Percentage of onsite testing versus laboratory	12.5
Use a slug for permeability testing	NA	Reduced waste disposal costs	Reduced potential for waste water spillage	Qualitative statement	12.5

Example BMPs for office and site investigation

	Possib	le benefit(s) ar	ising		BMP me	asurement	1
Best Management Practice 1. Generic BMPs	Environment	Social	Economic	BMP selection rationale	Metric	Evidence	UN Sustainability Goals
Userence and report positive interventions and incidents	×	~	~	Phase 2 site investigation	Safety training, NMPI reporting	Engineer training dated January 2022, 1 No. NMPIs reported	3.6 By 2020, halve the number of global deaths and injuries from road traffic accidents. 3.9 By 2030, substantially reduce the number of deaths and linesses from hazardous chemicals and air, water and soil pollution and contamination. 8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment
Adopt a sustainable procurement policy (consider recycled products, use of hotels with green policies and distance product is from site)	×	*	4	Phase 2 site investigation	Procurement records	ADP (drilling contractor) - hotel chosen due to distance from site etc etc	8. 3 Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services. 8.4 improve progressively, through 2003, global resource efficiency in consumption and production and endeworus to decouple economic growth from environmental degradation, in access to financial services. 8.4 improve progressively, through 2003, global resource efficiency in consumption and production and endeworus to decouple economic growth from environmental degradation, in access to financial services. 8.4 improve progressively, through 2003, global resource efficiency in consumption and production and endeworus to decouple control tasking the local 12.2 pro300, schedure the sustainable management and efficiency in consumption and production with the elongation production with the elongation in the elongation of the elongation constraints and production with the elongation in the elongation of the elongation constraints and production with the elongation constraints and production with the elongation and elongation production with the elongation constraints and production with the elongation constraints and elongation constraints and production with the elongation constraints and elongation constraints and production with the elongation constraints and production with the
Hold project meeting: by telephone or video conference	¥	~	~	Phase 2 site investigation	Qualitative statement	pre-start meeting held via Teamsre-start meeting held by telephone video conference rather than travelling for meeting	3.6 By 2020, halve the number of global deaths and injuries from road traffic accidents. 5.5 Ensure women's full and effective participation and equal opportunities for leadership at all levels of decisionmaking in political, economic and public IIE. 5.8 Enhance the use of enabling technology, in particular information and communications technology, to promote the enpowerment of women 8.2 Anitive higher levels of accouncie productivity through divergificance, technological usergation and user of the stable and theory memory westers 11.6 By 2020, ender the adverse per certain environment and anges of the stable and theory memory westers 11.6 By 2020, ender the adverse per certain environment and anges of the stables per certain environment and pract of titles, including by paring special attention to a quality and municipal and other waste management 12.5 Encourage companies, especially large and transustional companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle.
Establish electronic networks for data transfers and deliverables, team decisions, and document preparation		~	~	Phase 2 site investigation	Document train	Report delivered by email, ENFOS	5.5 Ensure women's full and effective participation and equal opportunities for leadership at all levels of decisionmaking in political, economic and public life. 5.B Enhance the use of enabling technology, in particular information and communications technology, to promote the empowerment of women 8.2 Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors 11.6 by 2003, reduce the adverse per capita environmental impact of cities, including by priving special attention to air quality and municipal and other waste management 12.6 Encourage companies, pecialarly large and the source to addor stantiable participater and transfer sustainability informating cycle
Established key roles within the project have sustainability responsibilities clearly outlined.	*	~	~	Phase 2 site investigation	Project organogram, records of meeting minutes	Records of meeting minutes	17.15 Enhance the global partnership for sustainable development, complemented by multi-stakholder partnership that mobilize and stark storedge, expertise, technology and funccial resources, to support the advecement of the sustainable development gosts in all countries, in particular developing countries 12.6 Encourage companies, especially large and transmitional companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle.
Include discussions of sustainability metrics, activities, evaluations, and plans in site deliverables	1	~	~	Phase 2 site investigation	Records held in job file	Reporting, meeting minutes	8.4. Improve progressively, through 2333, global resource entoerky in consumption and production and endeavour to decouple economic growth from environmental degradation, in accordance with the 12-year framework of googrammes on substantiable consumption and production, with developed countries taking the lead12.6 Encourage companies, especially large and transmational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle
Project and stateholder policies support a healthy work-life balance		~		Phase 2 site investigation	Policies	Qualitative statement	12 by 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status 10.3 Ensure equal opportunity and reduce in acqualities of outcome, including by eliminating discriminatory laws, policies and practices and promoting appropriate legislation, policies and action in this regard 10.4 Adopt policies, especially fiscal, wage and social protection policies, and progressively achieve greater equality 4.7 by 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development 4.5 attabations. Below, provide the greater equality, promotion of a cuture of peace and non-vidence, global citizenship and apportation of usual more southwhole to sustainable development 5.4 Recognize and value unpaid care and domestic work through the provision of public services, infrastructure and social protection policies and the promotion of a stature of peace and non-vidence, global citizenship and apportation of subative to the provision of paired responsibility within the household and the firmly as nationally appropriate.
Implement a plan to keep workforce informed of sustainability goals	×	~	1	Phase 2 site investigation	Plan held on job file	Qualitative statement	4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development 12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle
implement a plan to provide structured training in sustainable initiatives associated with the project.		~		Phase 2 site investigation	Training plan	Training records	4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship 4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of paces and non-vidence, global titenzib and appendication of custainable development.
Project and Stakeholder policies discourage unhealthy behavior in the workforce such as smoking or inactive stress manasement.			~	Phase 2 site investigation	Policies	Training records, qualitative statement	3.5 Strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol. 3.6 By 2020, halve the number of global deaths and injuries from road traffic accidents. 4.7 By 2030, manuer that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable filestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of culture's contribution to sustainable development. A Strengthen the implementation of the World Health Organization more not Todeocc Control in all countries, as supportiet.
Consideration of stress in the project and workplace and people's ability to perform the task physically and mentally		~		Phase 2 site investigation	Project management plan	qualitative statement	3.5 Strengthen the prevention and treatment of substance abuse, including narroctor drug abuse and harmful use of alcohol 8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment
BMPs - Investigation and Monitoring		-					
Work safely - avoid drilling in the highway or busy areas where possible		~	~	Phase 2 site investigation	Work plan	Site records	8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment 9.9 Px2010. Whatshanaliar endre werking environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment 9.9 Px2010. Whatshanaliar endre werking environments for all workers and environments of a 18 v 2010. Antenne university and environments of a 40 v 2010. When workers and environments and all works of the second antenne university and environments of the second antenne university and environments of the second antenne university and environments and envinonments and environments and environments and env
Utilise clean drilling techniques to avoid creation of preferential pathways	1		~	Phase 2 site investigation	Drilling instruction	Borehole drilling records	drinking water for all 6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally
Avoid multiple mobilisations			1	Phase 2 site investigation	Work plan	Qualitative statement	7.3 By 2030, double the global rate of improvement in energy efficiency 11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management
							7.3 By 2030, double the global rate of improvement in energy efficiency 11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other
Minimize vehicle miles - combine jobs where possible	×	~	~	Phase 2 site investigation	Work plan	Qualitative statement	waste management
Don't allow plant or equipment to run on 'idle' Minimize waste sent to landfill	× 	~	*	Phase 2 site investigation Phase 2 site investigation	Work plan, site briefing Work plan	Qualitative statement Qualitative statement	11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management 11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management
Minimise noise, vibration, dust (etc.) and limit use of such equipment to normal office hours				Phase 2 site investigation	HASP	HASP, site records	11.6 by 2030, reduce the adverse per spita environmental impact of cities, including by paying special attention to an quarky and municipal and other waste management
Include milestones to complete remedial site optimization process in site schedules	~		1	Phase 2 site investigation	Work plan		
Minimize the use of toxic materials and consider nontoxic chemical alternatives.	1	~		Phase 2 site investigation	HASP, COSSH	HASP, site records, COSHH	12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment
Consider the use of phosphate-free detergents in place of organic solvents or acids.	~	~		Phase 2 site investigation	HASP, COSHH	HASP, COSHH	12.4 by 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment
Consider the use of rechargeable batteries for field instruments versus disposable batteries	~	,		Phase 2 site investigation		Qualitative statement	12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment
Sequence work and traffic patterns to minimize local traffic congestion		1		Phase 2 site investigation	Traffic management plan	Traffic management plan	11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management
Select Equipment suitably sized to perform the work	~	~	~	Phase 2 site investigation	HASP	HASP	11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management
Perform routine and on-time maintenance to equipment to improve fuel efficiency (i.e., oil changes)	~	⊢	~	Phase 2 site investigation	Calibration and maintenace records	Calibration and maintenance records	11.6 by 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management 13.2 Integrate climate change measures into national policies, strategies and planning
Consider local sources of field labour	· ·	~	~	Phase 2 site investigation	Work plan	PO's	10.3 Ensure equal opportunity and reduce inequalities of outcome, including by eliminating discriminatory laws, policies and practices and promoting appropriate legislation, policies and action in this regard
Consider local sources of field equipment	~	1	1	Phase 2 site investigation	Work plan	PO's	13.2 Integrate dimate change measures into national policies, strategies and planning
Consider the use of direct sensing technologies to obtain geological, geotechnical, and hydrogeological information.		, ,	~	Phase 2 site investigation	Work plan	Report	2 2.2 Sp 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse 9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities
Consider the use of dedicated sampling equipment.	1	~		Phase 2 site investigation	Site work instruction sheet	Report	Employs and greater adoption or clean and environmentary sound economous and moust are processes, with an country taking account in accounter with respective calebonites 12.5 by 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse
Consider the use of field testing and field screening methods			~	Phase 2 site investigation	Site work instruction sheet	Report	12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse
Consider the distance of the laboratory from the site when evaluating qualified laboratories for testing that cannot be completed on-site	~	~	-	Phase 2 site investigation	Work plan	Qualitative statement	13.2 Integrate climate change measures into national policies, strategies and planning
Limit the number and size of shipments to off-site laboratories	~	~	1	Phase 2 site investigation	Work plan	Qualitative statement	12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse
Encourage electronic deliverables from laboratories; discourage hard copy deliverables	~			Phase 2 site investigation	L	Qualitative statement, e-mails	13.2 Integrate climate change measures into national policies, strategies and planning