



Royal Haskoning  
Rightwell House  
Bretton  
Bretton  
Peterborough  
Cambridgeshire  
PE3 8DW

**Attention:** Declan Fives

## CERTIFICATE OF ANALYSIS

**Date:** 23 May 2014  
**Customer:** H\_RHASKON\_PTB  
**Sample Delivery Group (SDG):** 140514-91  
**Your Reference:** 9Y0074 103 100  
**Location:** Cole Green  
**Report No:** 270988

We received 5 samples on Wednesday May 14, 2014 and 2 of these samples were scheduled for analysis which was completed on Friday May 23, 2014. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

All chemical testing (unless subcontracted) is performed at ALcontrol Hawarden Laboratories.

Approved By:

**Sonia McWhan**

Operations Manager





**SDG:** 140514-91  
**Job:** H\_RHASKON\_PT8-82  
**Client Reference:** 9Y0074 103 100

**Location:** Cole Green  
**Customer:** Royal Haskoning  
**Attention:** Declan Fives

**Order Number:** 9Y0074-103-100  
**Report Number:** 270988  
**Superseded Report:**

### Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9282401	BH11		0.50	12/05/2014
9282402	BH11		1.00	12/05/2014
9282404	BH11		2.00	12/05/2014
9282406	BH11		5.00	12/05/2014
9282407	BH11		6.50	12/05/2014

Only received samples which have had analysis scheduled will be shown on the following pages.



SDG: 140514-91  
 Job: H\_RHASKON\_PT8-82  
 Client Reference: 9Y0074 103 100

Location: Cole Green  
 Customer: Royal Haskoning  
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Order Number: 9Y0074-103-100  
 Report Number: 270988  
 Superseded Report:

SOLID Results Legend  <input checked="" type="checkbox"/> Test  <input checked="" type="checkbox"/> No Determination Possible	Lab Sample No(s)		9282402	9282406
	Customer Sample Reference		BH11	BH11
	AGS Reference			
	Depth (m)		1.00	5.00
	Container		250g VOC (ALEZ15) 1kg Amber Jar (AL 1kg TUB	60g VOC (ALEZ15) 1kg Amber Jar (AL 1kg TUB
Boron Water Soluble	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GRO by GC-FID (S)	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Metals in solid samples by OES	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PAH by GCMS	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
pH	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sample description	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 1	<input checked="" type="checkbox"/>	
Total Organic Carbon	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TPH CWG GC (S)	All	NDPs: 0 Tests: 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
VOC MS (S)	All	NDPs: 0 Tests: 1	<input checked="" type="checkbox"/>	

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## Sample Descriptions

**Grain Sizes**

<b>very fine</b>	<b>&lt;0.063mm</b>	<b>fine</b>	<b>0.063mm - 0.1mm</b>	<b>medium</b>	<b>0.1mm - 2mm</b>	<b>coarse</b>	<b>2mm - 10mm</b>	<b>very coarse</b>	<b>&gt;10mm</b>
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
9282402	BH11	1.00	Light Brown	Silty Clay Loam	0.063 - 0.1 mm	N/A	N/A
9282406	BH11	5.00	Light Brown	Silty Clay Loam	0.063 - 0.1 mm	N/A	N/A

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



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Results Legend		Customer Sample R	BH11	BH11			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH11	BH11			
M	mCERTS accredited.		1.00	5.00			
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid			
diss.filt	Dissolved / filtered sample.		12/05/2014	12/05/2014			
tot.unfilt	Total / unfiltered sample.		.	.			
*	Subcontracted test.		14/05/2014	14/05/2014			
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		140514-91	140514-91			
(F)	Trigger breach confirmed		9282402	9282406			
1-5&*\$@	Sample deviation (see appendix)						
Component	LOD/Units		Method				
Moisture Content Ratio	%	PM024	16	15			
Organic Carbon, Total	<0.2 %	TM132	0.551	0.211			
Fraction Organic Carbon (FOC)	<0.002 -	TM132	0.00551	0.00211			
pH	1 pH Units	TM133	8.29	8.5			
Arsenic	<0.6 mg/kg	TM181	36	23.7			
Barium	<0.6 mg/kg	TM181	41.4	28.3			
Beryllium	<0.01 mg/kg	TM181	1.41	1.24			
Cadmium	<0.02 mg/kg	TM181	<0.02	<0.02			
Chromium	<0.9 mg/kg	TM181	47.1	28.3			
Copper	<1.4 mg/kg	TM181	14.2	14			
Lead	<0.7 mg/kg	TM181	17.9	15.6			
Mercury	<0.14 mg/kg	TM181	<0.14	0.198			
Nickel	<0.2 mg/kg	TM181	38.2	29.9			
Selenium	<1 mg/kg	TM181	<1	<1			
Vanadium	<0.2 mg/kg	TM181	81.1	52.6			
Zinc	<1.9 mg/kg	TM181	81.5	74.4			
Boron, water soluble	<1 mg/kg	TM222	7.8	28.5			



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## PAH by GCMS

Results Legend		Customer Sample R	BH11	BH11			
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	BH11	BH11			
M	mCERTS accredited.		1.00	5.00			
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid			
diss.filt	Dissolved / filtered sample.		12/05/2014	12/05/2014			
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted test.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		14/05/2014	14/05/2014			
(F)	Trigger breach confirmed		140514-91	140514-91			
1-5&*\$@	Sample deviation (see appendix)		9282402	9282406			
Component	LOD/Units		Method				
Naphthalene-d8 % recovery**	%	TM218	125	97.8			
Acenaphthene-d10 % recovery**	%	TM218	125	95.4			
Phenanthrene-d10 % recovery**	%	TM218	120	89.1			
Chrysene-d12 % recovery**	%	TM218	116	80.7			
Perylene-d12 % recovery**	%	TM218	115	79			
Naphthalene	<9 µg/kg	TM218	13.3	<9			
			M	M			
Acenaphthylene	<12 µg/kg	TM218	<12	<12			
			M	M			
Acenaphthene	<8 µg/kg	TM218	<8	<8			
			M	M			
Fluorene	<10 µg/kg	TM218	<10	<10			
			M	M			
Phenanthrene	<15 µg/kg	TM218	<15	<15			
			M	M			
Anthracene	<16 µg/kg	TM218	<16	<16			
			M	M			
Fluoranthene	<17 µg/kg	TM218	<17	<17			
			M	M			
Pyrene	<15 µg/kg	TM218	<15	<15			
			M	M			
Benz(a)anthracene	<14 µg/kg	TM218	<14	<14			
			M	M			
Chrysene	<10 µg/kg	TM218	<10	<10			
			M	M			
Benzo(b)fluoranthene	<15 µg/kg	TM218	<15	<15			
			M	M			
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14	<14			
			M	M			
Benzo(a)pyrene	<15 µg/kg	TM218	<15	<15			
			M	M			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18	<18			
			M	M			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23	<23			
			M	M			
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24	<24			
			M	M			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	<118	<118			



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## Semi Volatile Organic Compounds

Results Legend		Customer Sample R	BH11				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00				
M	mCERTS accredited.		Soil/Solid				
aq	Aqueous / settled sample.		12/05/2014				
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted test.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		14/05/2014				
(F)	Trigger breach confirmed		140514-91				
1-5&*\$@	Sample deviation (see appendix)		9282402				
Component	LOD/Units		Method				
Phenol	<100 µg/kg	TM157	<100				
Pentachlorophenol	<100 µg/kg	TM157	<100				
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157	<100				
Nitrobenzene	<100 µg/kg	TM157	<100				
Isophorone	<100 µg/kg	TM157	<100				
Hexachloroethane	<100 µg/kg	TM157	<100				
Hexachlorocyclopentadiene	<100 µg/kg	TM157	<100				
Hexachlorobutadiene	<100 µg/kg	TM157	<100				
Hexachlorobenzene	<100 µg/kg	TM157	<100				
n-Dioctyl phthalate	<100 µg/kg	TM157	<100				
Dimethyl phthalate	<100 µg/kg	TM157	<100				
Diethyl phthalate	<100 µg/kg	TM157	<100				
n-Dibutyl phthalate	<100 µg/kg	TM157	<100				
Dibenzofuran	<100 µg/kg	TM157	<100				
Carbazole	<100 µg/kg	TM157	<100				
Butylbenzyl phthalate	<100 µg/kg	TM157	<100				
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157	<100				
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157	<100				
bis(2-Chloroethyl)ether	<100 µg/kg	TM157	<100				
Azobenzene	<100 µg/kg	TM157	<100				
4-Nitrophenol	<100 µg/kg	TM157	<100				
4-Nitroaniline	<100 µg/kg	TM157	<100				
4-Methylphenol	<100 µg/kg	TM157	<100				
4-Chlorophenylphenylether	<100 µg/kg	TM157	<100				
4-Chloroaniline	<100 µg/kg	TM157	<100				
4-Chloro-3-methylphenol	<100 µg/kg	TM157	<100				
4-Bromophenylphenylether	<100 µg/kg	TM157	<100				
3-Nitroaniline	<100 µg/kg	TM157	<100				
2-Nitrophenol	<100 µg/kg	TM157	<100				
2-Nitroaniline	<100 µg/kg	TM157	<100				
2-Methylphenol	<100 µg/kg	TM157	<100				
1,2,4-Trichlorobenzene	<100 µg/kg	TM157	<100				



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Semi Volatile Organic Compounds

Table with columns: Component, LOD/Units, Method, and results for various organic compounds like 2-Chlorophenol, 2,6-Dinitrotoluene, etc.





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## TPH CWG (S)

Results Legend		Customer Sample R	BH11	BH11			
#	ISO17025 accredited.						
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted test.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						
(F)	Trigger breach confirmed						
1-5&*\$@	Sample deviation (see appendix)						
		Depth (m)	1.00	5.00			
		Sample Type	Soil/Solid	Soil/Solid			
		Date Sampled	12/05/2014	12/05/2014			
		Sampled Time					
		Date Received	14/05/2014	14/05/2014			
		SDG Ref	140514-91	140514-91			
		Lab Sample No.(s)	9282402	9282406			
		AGS Reference					
Component	LOD/Units	Method					
GRO Surrogate % recovery**	%	TM089	122	71			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<44 M	<44 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 M	<5 M			
Benzene	<10 µg/kg	TM089	<10 M	<10 M			
Toluene	<2 µg/kg	TM089	<2 M	<2 M			
Ethylbenzene	<3 µg/kg	TM089	<3 M	<3 M			
m,p-Xylene	<6 µg/kg	TM089	<6 M	<6 M			
o-Xylene	<3 µg/kg	TM089	<3 M	<3 M			
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9			
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24			
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10			
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<10			
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	<10			
Aliphatics >C10-C12	<10 µg/kg	TM089	16.7	<10			
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100			
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100			
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	<100			
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100			
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	<100			
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10			
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10			
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	<10			
Aromatics >EC10-EC12	<10 µg/kg	TM089	10.7	<10			
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	1690			
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	1220			
Aromatics >EC21-EC35	<100 µg/kg	TM173	3560	3060			
Aromatics >EC35-EC44	<100 µg/kg	TM173	979	2100			
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	597			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	4540	8070			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	4560	8070			



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## VOC MS (S)

Results Legend		Customer Sample R					
#	ISO17025 accredited.		BH11				
M	mCERTS accredited.						
aq	Aqueous / settled sample.						
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.						
*	Subcontracted test.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery						
(F)	Trigger breach confirmed						
1-5&*\$@	Sample deviation (see appendix)						
		Depth (m)	1.00				
		Sample Type	Soil/Solid				
		Date Sampled	12/05/2014				
		Sampled Time					
		Date Received	14/05/2014				
		SDG Ref	140514-91				
		Lab Sample No.(s)	9282402				
		AGS Reference					
Component	LOD/Units	Method					
Dibromofluoromethane**	%	TM116	105				
Toluene-d8**	%	TM116	100				
4-Bromofluorobenzene**	%	TM116	91.5				
Dichlorodifluoromethane	<4 µg/kg	TM116	<4	#			
Chloromethane	<7 µg/kg	TM116	<7				
Vinyl Chloride	<10 µg/kg	TM116	<10				
Bromomethane	<13 µg/kg	TM116	<13	#			
Chloroethane	<14 µg/kg	TM116	<14	M			
Trichlorofluoromethane	<6 µg/kg	TM116	<6	#			
1,1-Dichloroethene	<10 µg/kg	TM116	<10	M			
Carbon Disulphide	<7 µg/kg	TM116	<7	M			
Dichloromethane	<10 µg/kg	TM116	<10	#			
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<11				
trans-1,2-Dichloroethene	<11 µg/kg	TM116	<11	#			
1,1-Dichloroethane	<8 µg/kg	TM116	<8	M			
cis-1,2-Dichloroethene	<5 µg/kg	TM116	<5	M			
2,2-Dichloropropane	<12 µg/kg	TM116	<12				
Bromochloromethane	<14 µg/kg	TM116	<14	#			
Chloroform	<8 µg/kg	TM116	<8	M			
1,1,1-Trichloroethane	<7 µg/kg	TM116	<7	M			
1,1-Dichloropropene	<11 µg/kg	TM116	<11	M			
Carbontetrachloride	<14 µg/kg	TM116	<14	M			
1,2-Dichloroethane	<5 µg/kg	TM116	<5	#			
Benzene	<9 µg/kg	TM116	<9	M			
Trichloroethene	<9 µg/kg	TM116	<9	M			
1,2-Dichloropropane	<12 µg/kg	TM116	<12	M			
Dibromomethane	<9 µg/kg	TM116	<9	#			
Bromodichloromethane	<7 µg/kg	TM116	<7	M			
cis-1,3-Dichloropropene	<14 µg/kg	TM116	<14				
Toluene	<5 µg/kg	TM116	<5	M			
trans-1,3-Dichloropropene	<100 µg/kg	TM116	<100				
1,1,2-Trichloroethane	<10 µg/kg	TM116	<10	#			



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## VOC MS (S)

Results Legend		Customer Sample R	BH11				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sampled Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00				
M	mCERTS accredited.		Soil/Solid				
aq	Aqueous / settled sample.		12/05/2014				
diss.filt	Dissolved / filtered sample.						
tot.unfilt	Total / unfiltered sample.		14/05/2014				
*	Subcontracted test.						
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery		140514-91				
(F)	Trigger breach confirmed		9282402				
1-5&#x26;	Sample deviation (see appendix)						
Component	LOD/Units		Method				
1,3-Dichloropropane	<7 µg/kg	TM116	<7	#			
Tetrachloroethene	<5 µg/kg	TM116	<5	#			
Dibromochloromethane	<13 µg/kg	TM116	<13	#			
1,2-Dibromoethane	<12 µg/kg	TM116	<12	#			
Chlorobenzene	<5 µg/kg	TM116	<5	M			
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<10	M			
Ethylbenzene	<4 µg/kg	TM116	<4	#			
p/m-Xylene	<14 µg/kg	TM116	<14	#			
o-Xylene	<10 µg/kg	TM116	<10	#			
Styrene	<10 µg/kg	TM116	<10	#			
Bromoform	<10 µg/kg	TM116	<10	#			
Isopropylbenzene	<5 µg/kg	TM116	<5	#			
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<10	#			
1,2,3-Trichloropropane	<17 µg/kg	TM116	<17	#			
Bromobenzene	<10 µg/kg	TM116	<10	M			
Propylbenzene	<11 µg/kg	TM116	<11	#			
2-Chlorotoluene	<9 µg/kg	TM116	<9	#			
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<8	#			
4-Chlorotoluene	<12 µg/kg	TM116	<12	#			
tert-Butylbenzene	<12 µg/kg	TM116	<12	#			
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<9	#			
sec-Butylbenzene	<10 µg/kg	TM116	<10	#			
4-Isopropyltoluene	<11 µg/kg	TM116	<11	#			
1,3-Dichlorobenzene	<6 µg/kg	TM116	<6	#			
1,4-Dichlorobenzene	<5 µg/kg	TM116	<5	M			
n-Butylbenzene	<10 µg/kg	TM116	<10	#			
1,2-Dichlorobenzene	<12 µg/kg	TM116	<12	M			
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<14	#			
Tert-amyl methyl ether	<15 µg/kg	TM116	<15				
1,2,4-Trichlorobenzene	<6 µg/kg	TM116	<6	#			
Hexachlorobutadiene	<12 µg/kg	TM116	<12				
Naphthalene	<13 µg/kg	TM116	<13	#			



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Superseded Report:

VOC MS (S)

Table with columns for Results Legend, Customer Sample R, Component, LOD/Units, Method, and numerical results. Includes a legend for symbols like #, M, aq, etc., and a table row for 1,2,3-Trichlorobenzene.



**SDG:** 140514-91  
**Job:** H\_RHASKON\_PTB-82  
**Client Reference:** 9Y0074 103 100

**Location:** Cole Green  
**Customer:** Royal Haskoning  
**Attention:** Declan Fives

**Order Number:** 9Y0074-103-100  
**Report Number:** 270988  
**Superseded Report:**

## Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample <sup>1</sup>	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM218	Microwave extraction – EPA method 3546	Microwave extraction - EPA method 3546		
TM222	In-House Method	Determination of Hot Water Soluble Boron in Soils (10:1 Water:soil) by IRIS Emission Spectrometer		

<sup>1</sup> Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



**SDG:** 140514-91  
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**Order Number:** 9Y0074-103-100  
**Report Number:** 270988  
**Superseded Report:**

## Test Completion Dates

Lab Sample No(s)	9282402	9282406
Customer Sample Ref.	BH11	BH11
AGS Ref.		
Depth	1.00	5.00
Type	SOLID	SOLID
Boron Water Soluble	21-May-2014	21-May-2014
EPH CWG (Aliphatic) GC (S)	19-May-2014	19-May-2014
EPH CWG (Aromatic) GC (S)	19-May-2014	19-May-2014
GRO by GC-FID (S)	23-May-2014	22-May-2014
Metals in solid samples by OES	20-May-2014	20-May-2014
PAH by GCMS	20-May-2014	20-May-2014
pH	19-May-2014	16-May-2014
Sample description	15-May-2014	15-May-2014
Semi Volatile Organic Compounds	23-May-2014	
Total Organic Carbon	22-May-2014	22-May-2014
TPH CWG GC (S)	23-May-2014	22-May-2014
VOC MS (S)	22-May-2014	



SDG: 140514-91  
Job: H\_RHASKON\_PT8-82  
Client Reference: 9Y0074 103 100

Location: Cole Green  
Customer: Royal Haskoning  
Attention: Declan Fives

Order Number: 9Y0074-103-100  
Report Number: 270988  
Superseded Report:

### Chromatogram

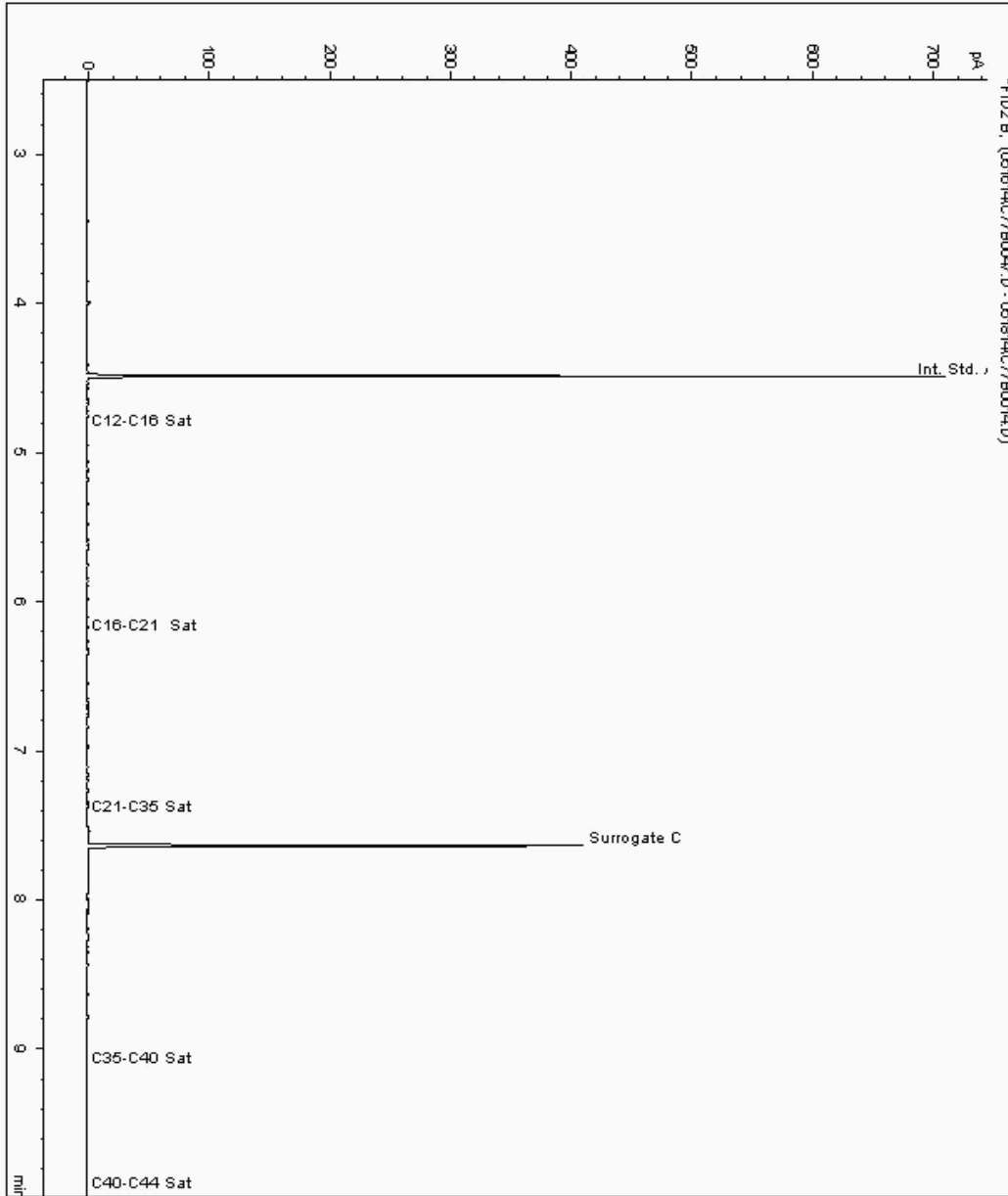
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9284604  
Sample ID : BH11

Depth : 5.00

Alcontrol/Geochem Analytical Services  
Speciated TPH - SATS ( C12 - C40 )

Sample Identity: 8816482-9284604  
Date Acquired : 18/05/2014 23:06:15 PM  
Units : ppb  
Dilution :  
CF : 1  
Multiplier : 0.990





SDG: 140514-91  
Job: H\_RHASKON\_PT8-82  
Client Reference: 9Y0074 103 100

Location: Cole Green  
Customer: Royal Haskoning  
Attention: Declan Fives

Order Number: 9Y0074-103-100  
Report Number: 270988  
Superseded Report:

### Chromatogram

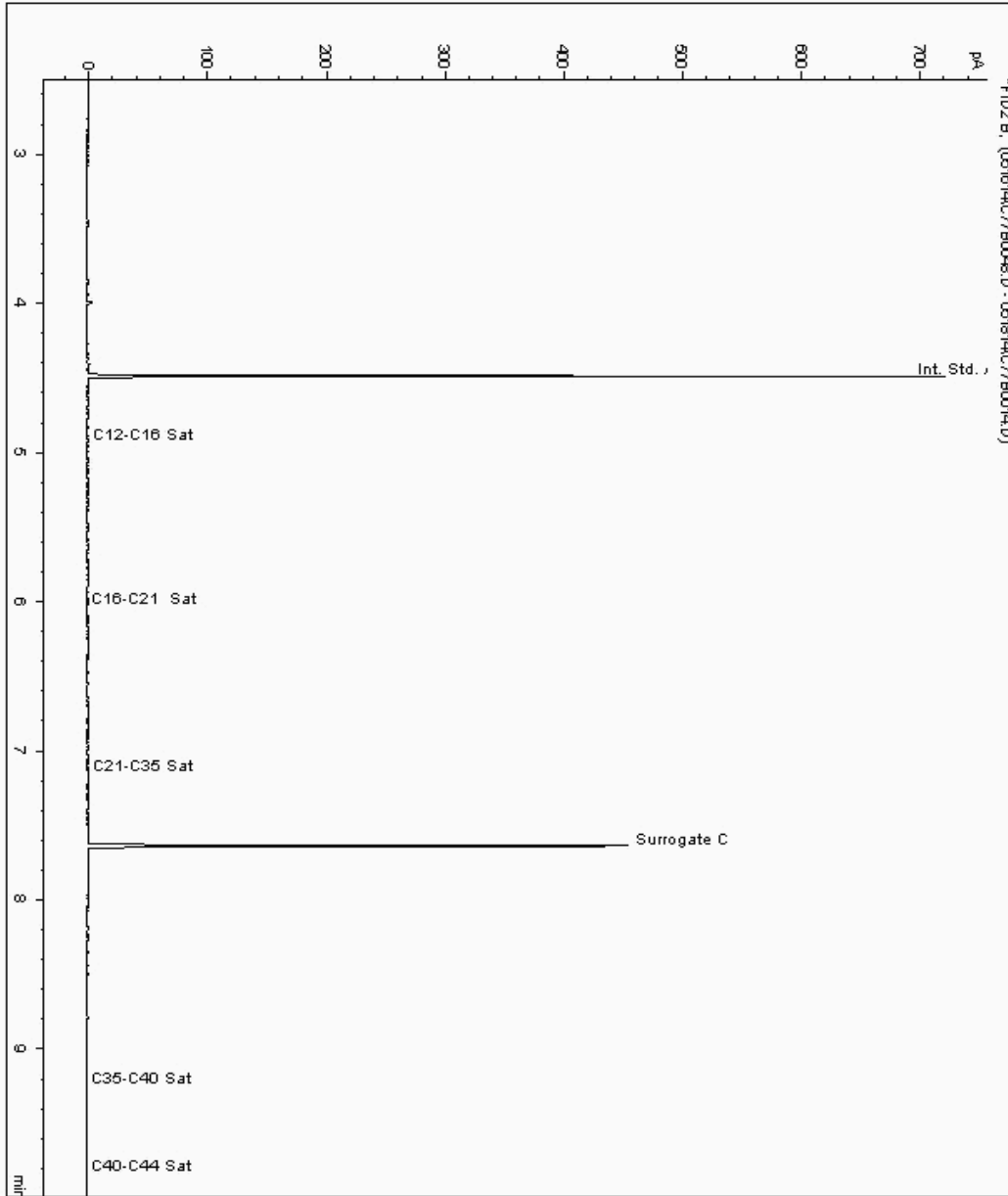
Analysis: EPH CWG (Aliphatic) GC (S)

Sample No : 9284701  
Sample ID : BH11

Depth : 1.00

Alcontrol/Geochem Analytical Services  
Speciated TPH - SATS ( C12 - C40 )

Sample Identity: 8816457-9284701  
Date Acquired : 18/05/2014 23:26:54 PM  
Units : ppb  
Dilution :  
CF : 1  
Multiplier : 0.990







SDG: 140514-91  
Job: H\_RHASKON\_PTB-82  
Client Reference: 9Y0074 103 100

Location: Cole Green  
Customer: Royal Haskoning  
Attention: Declan Fives

Order Number: 9Y0074-103-100  
Report Number: 270988  
Superseded Report:

### Chromatogram

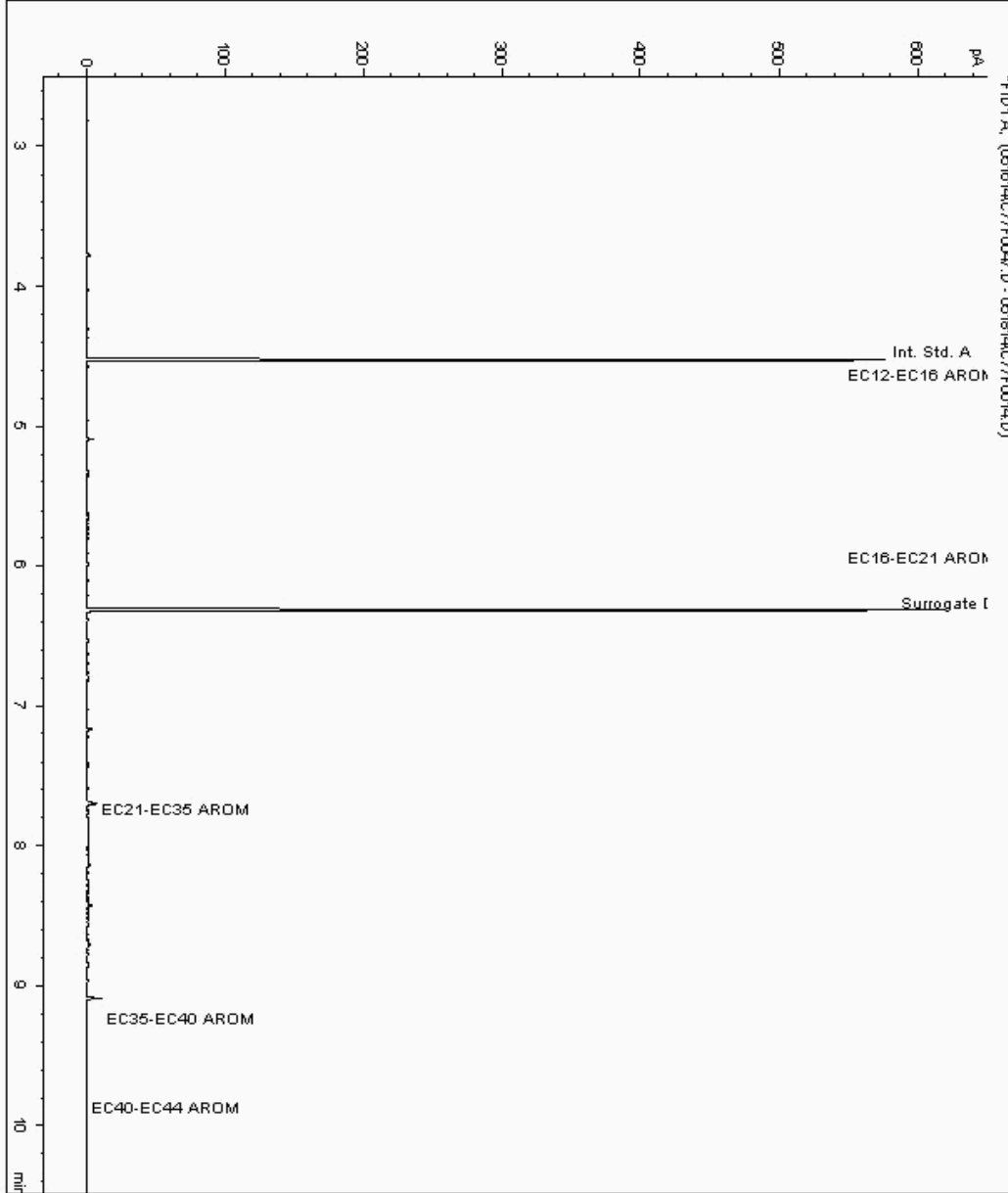
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9284604  
Sample ID : BH11

Depth : 5.00

Alcontrol/Geochem Analytical Services  
Speciated TPH - AROM ( C12 - C40 )

Sample Identity: 8816483-9284604  
Date Acquired : 18/05/2014 23:06:15 PM  
Units : ppb  
Dilution :  
CF : 1  
Multiplier : 0.990





SDG: 140514-91  
Job: H\_RHASKON\_PTB-82  
Client Reference: 9Y0074 103 100

Location: Cole Green  
Customer: Royal Haskoning  
Attention: Declan Fives

Order Number: 9Y0074-103-100  
Report Number: 270988  
Superseded Report:

### Chromatogram

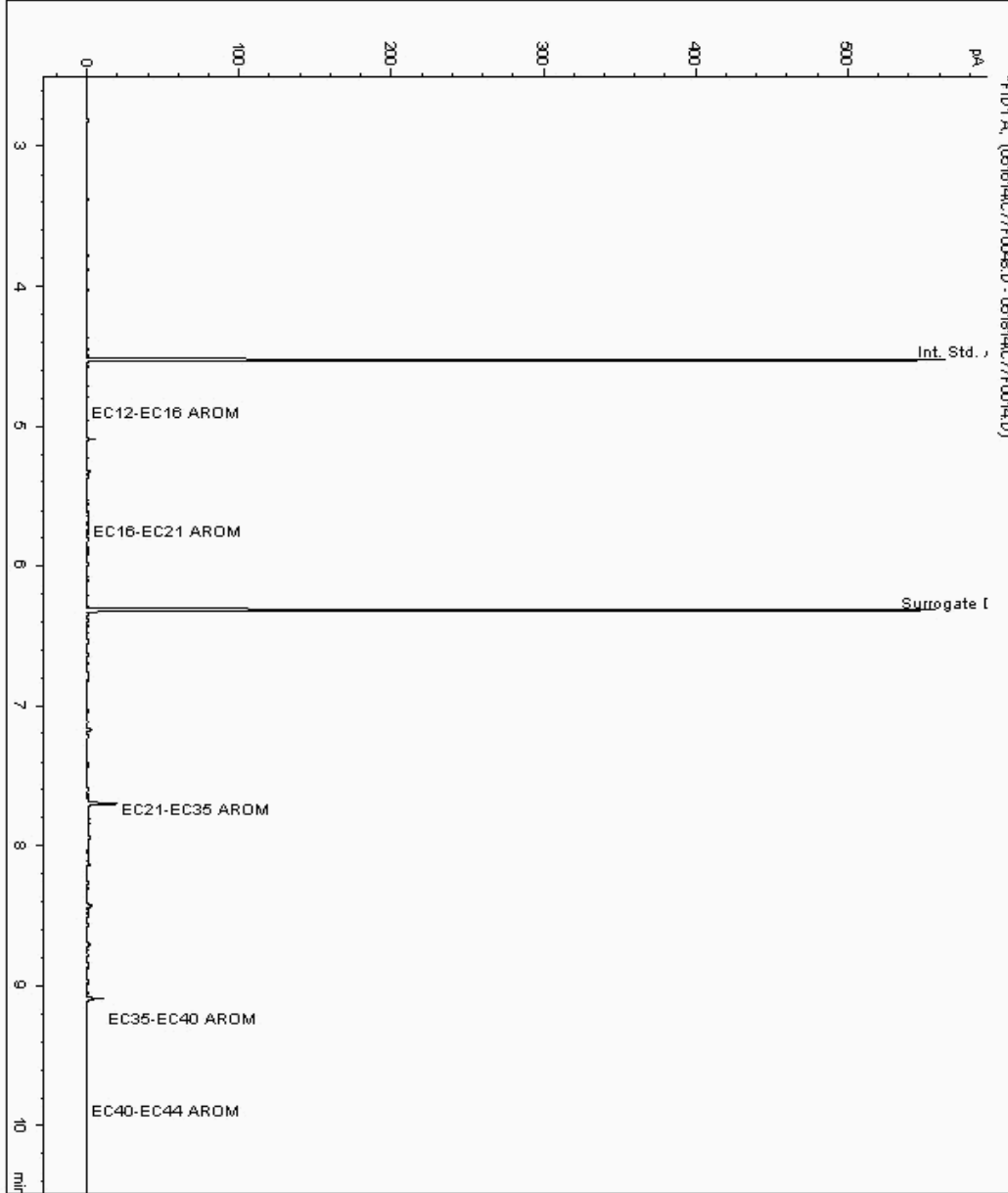
Analysis: EPH CWG (Aromatic) GC (S)

Sample No : 9284701  
Sample ID : BH11

Depth : 1.00

Alcontrol/Geochem Analytical Services  
Speciated TPH - AROM ( C12 - C40 )

Sample Identity: 8816458-9284701  
Date Acquired : 18/05/2014 23:26:54 PM  
Units : ppb  
Dilution :  
CF : 1  
Multiplier : 0.990





SDG: 140514-91  
Job: H\_RHASKON\_PT8-82  
Client Reference: 9Y0074 103 100

Location: Cole Green  
Customer: Royal Haskoning  
Attention: Declan Fives

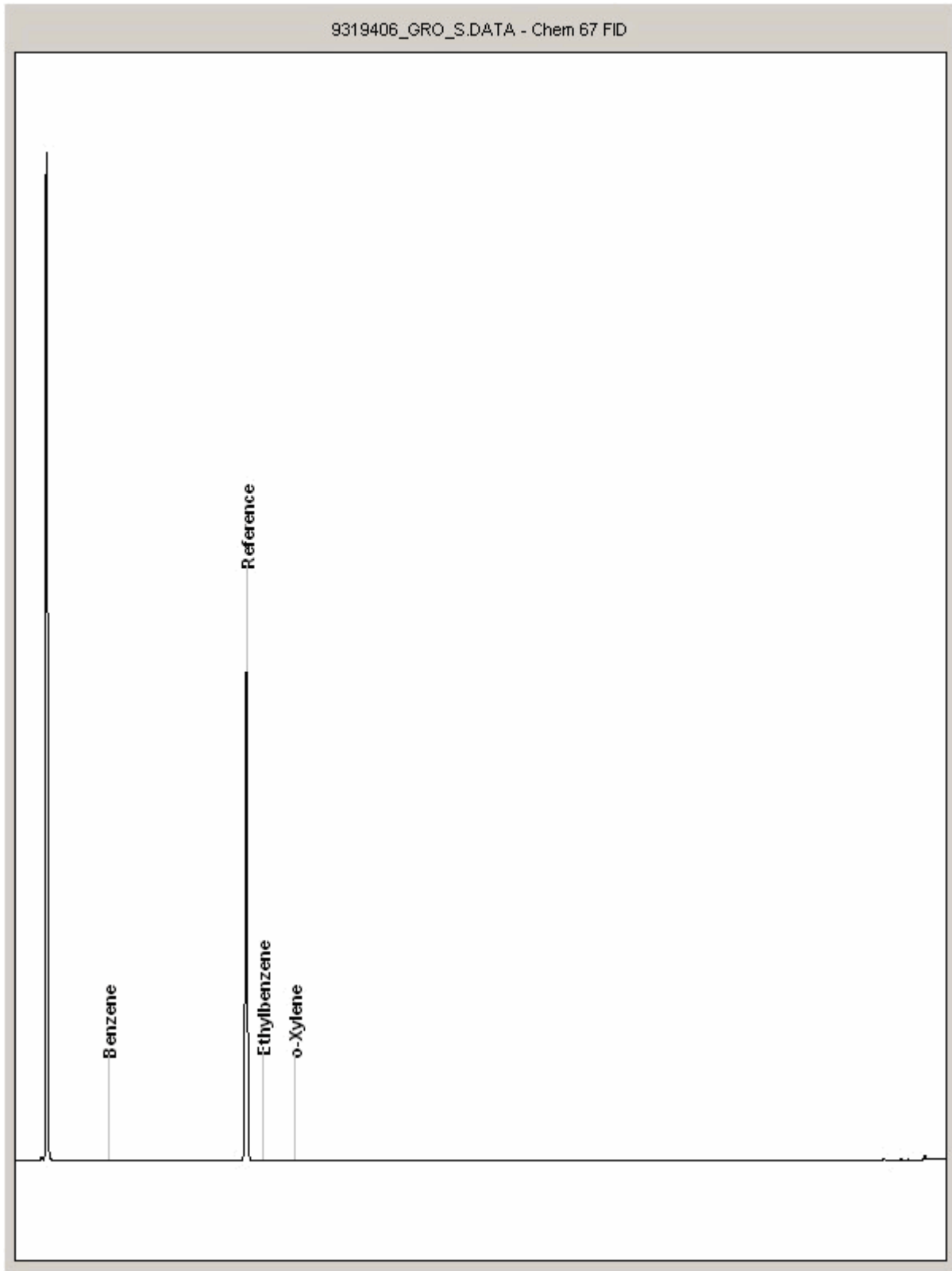
Order Number: 9Y0074-103-100  
Report Number: 270988  
Superseded Report:

### Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9319406  
Sample ID : BH11

Depth : 5.00





SDG: 140514-91  
Job: H\_RHASKON\_PT8-82  
Client Reference: 9Y0074 103 100

Location: Cole Green  
Customer: Royal Haskoning  
Attention: Declan Fives

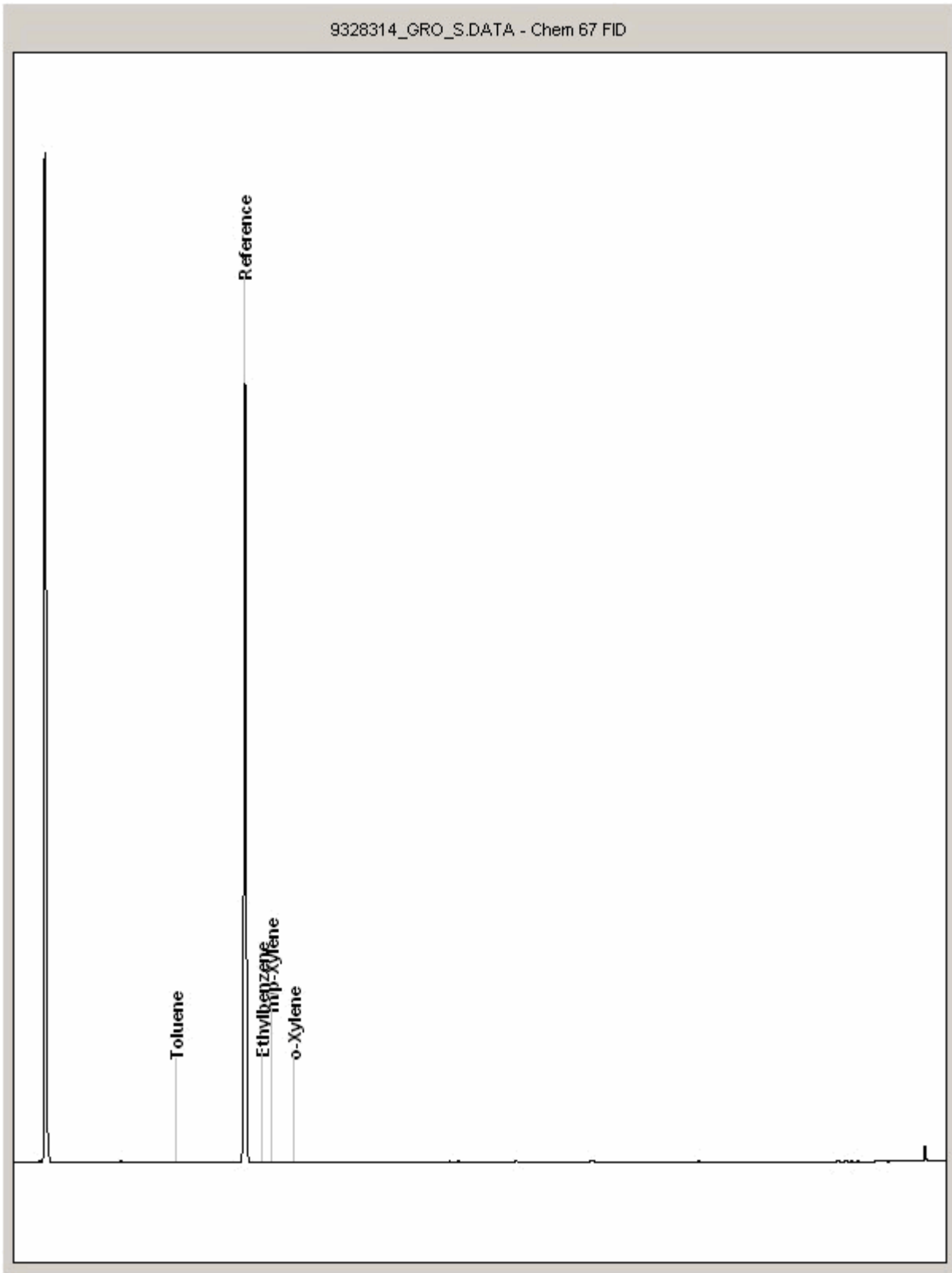
Order Number: 9Y0074-103-100  
Report Number: 270988  
Superseded Report:

### Chromatogram

Analysis: GRO by GC-FID (S)

Sample No : 9328314  
Sample ID : BH11

Depth : 1.00





**SDG:** 140514-91  
**Job:** H\_RHASKON\_PTB-82  
**Client Reference:** 9Y0074 103 100

**Location:** Cole Green  
**Customer:** Royal Haskoning  
**Attention:** Declan Fives

**Order Number:** 9Y0074-103-100  
**Report Number:** 270988  
**Superseded Report:**

## Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA Leach tests, flash point, ammonium as NH<sub>4</sub> by the BRE method, VOC TICS, SVOC TICS, TOF-MS SCAN/SEARCH and TOF-MS TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for both soil jars, tubs and volatile jars. All waters and vials will be discarded 10 days after the analysis is completed (e-mailed). All material removed during an asbestos containing material screen and analysed for the presence of asbestos will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be screened in house for the presence of large asbestos containing material fragments/pieces. If no asbestos containing material is found this will be reported as 'no asbestos containing material detected'. If asbestos containing material is detected it will be removed and analysed by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If asbestos containing material is present no further analysis will be undertaken. At no point is the fibre content of the soil sample determined.

7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample -similarly, if a headspace or sediment is present in the volatile sample. This will be flagged up as an invalid VOC on the test schedule or recorded on the log sheet.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.

12. Results relate only to the items tested

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 14).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. Our MCERTS accreditation for PAHs by GCMS applies to all product types apart from Kerosene, where naphthalene is only not accredited.

19. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

20. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

21. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

22. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

23. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials -whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

24. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C4 -C10 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

## SOLID MATRICES EXTRACTION SUMMARY

ANALYSIS	D/C OR WET	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
SOLVENT EXTRACTABLE MATTER	D&C	DOM	SOXTERM	GRAMMETRIC
CYCLOHEXANE EXT. MATTER	D&C	CYCLOHEXANE	SOXTERM	GRAMMETRIC
THIN LAYER CHROMATOGRAPHY	D&C	DOM	SOXTERM	IATROSCAN
ELEMENTAL SULPHUR	D&C	DOM	SOXTERM	HPLC
PHENOLS BY GCMS	WET	DOM	SOXTERM	GCMS
HERBICIDES	D&C	HEXANEACETONE	SOXTERM	GCMS
PESTICIDES	D&C	HEXANEACETONE	SOXTERM	GCMS
EPH (DRO)	D&C	HEXANEACETONE	END OVEREND	GCFID
EPH (MINOL)	D&C	HEXANEACETONE	END OVEREND	GCFID
EPH (CLEANED UP)	D&C	HEXANEACETONE	END OVEREND	GCFID
EPH CWG BY GC	D&C	HEXANEACETONE	END OVEREND	GCFID
PCB TOT / PCB CON	D&C	HEXANEACETONE	END OVEREND	GCMS
POLYAROMATIC HYDROCARBONS (MS)	WET	HEXANEACETONE	MICROWAVE TM28.	GCMS
C8-C40 (C6C40) EZ FLASH	WET	HEXANEACETONE	SHAKER	GCEZ
POLYAROMATIC HYDROCARBONS RAPID GC	WET	HEXANEACETONE	SHAKER	GCEZ
SEM VOLATILE ORGANIC COMPOUNDS	WET	DOMACETONE	SONICATE	GCMS

## LIQUID MATRICES EXTRACTION SUMMARY

ANALYSIS	EXTRACTION SOLVENT	EXTRACTION METHOD	ANALYSIS
PAHMS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
EPH	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCFID
EPH CWG	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCFID
MINERAL OIL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCFID
PCB 70 CONGENERS	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
PCB TOTAL	HEXANE	STIRRED EXTRACTION (STIR-BAR)	GCMS
SVOC	DOM	LIQUID/LIQUID SHAKE	GCMS
FREESULPHUR	DOM	SOLID PHASE EXTRACTION	HPLC
PEST COPP	DOM	LIQUID/LIQUID SHAKE	GCMS
TRIAZINE HERBS	DOM	LIQUID/LIQUID SHAKE	GCMS
PHENOLS MS	DOM	SOLID PHASE EXTRACTION	GCMS
TPH by INFRARED (IR)	TCE	LIQUID/LIQUID SHAKE	HPLC
MINERAL OIL by IR	TCE	LIQUID/LIQUID SHAKE	HPLC
GLYCOLS	NONE	DIRECT INJECTION	GCMS

### Identification of Asbestos in Bulk Materials

The results for asbestos identification for soil samples are obtained from possible Asbestos Containing Material, removed during the 'Screening of soils for Asbestos Containing Materials', which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

### Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace -Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in MDHS 100.

The identification of asbestos containing materials falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Coöcidite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

**SDG:** 140514-91  
**Job:** H\_RHASKON\_PTB-82  
**Client Reference:** 9Y0074 103 100

**Location:** Cole Green  
**Customer:** Royal Haskoning  
**Attention:** Declan Fives

**Order Number:** 9Y0074-103-100  
**Report Number:** 270988  
**Superseded Report:**

## Appendix General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICS and SVOC TICS.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible. The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt. However, the integrity of the data may be compromised.

9. NDP -No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals -total metals must be requested separately.

11. Results relate only to the items tested.

12. LODs for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** -Most of our organic methods include surrogates, the recovery of which is monitored and reported. For EPH, MO, PAH, GRO and VOCs on soils the result is not surrogate corrected, but a percentage recovery is quoted. Acceptable limits for most organic methods are 70 -130 %.

14. **Product analyses** -Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethylphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For all leachate preparations (NRA, DIN, TCLP, BSEN 12457-1, 2, 3) volatile loss may occur, as we do not employ zero headspace extraction.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill /made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

## Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before preservation was performed
§	Sampled on date not provided
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

## Asbestos

### Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using Alcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthrophyllite	-
Fibrous Tremolite	-

### Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than:

- Trace -Where only one or two asbestos fibres were identified.

**Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.**

**The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.**