

Summary of Asbestos Analysis

Soil Samples

Our Ref 14-13674
 Client Ref 140817-4
 Contract Title 140817-4

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
688894	9830983	SOIL	Chrysotile	Bundles of chrysotile fibres present	Andrew Little
688895	9830988	SOIL	NAD	none	Andrew Little
688896	9830755	SOIL	NAD	none	Andrew Little
688897	9830974	SOIL	Chrysotile	Bundles of chrysotile fibres present	Andrew Little
688898	9830975	SOIL	NAD	none	Andrew Little
688899	9829958	SOIL	NAD	none	Andrew Little
688900	9831144	SOIL	NAD	none	Andrew Little
688901	9830775	SOIL	NAD	none	Andrew Little
688902	9830204	SOIL	NAD	none	Andrew Little
688903	9830209	SOIL	Chrysotile	Bundles of chrysotile fibres present	Andrew Little
688904	9830699	SOIL	NAD	none	Andrew Little
688905	9830778	SOIL	NAD	none	Andrew Little
688906	9830770	SOIL	NAD	none	Andrew Little
688907	9829917	SOIL	NAD	none	Andrew Little
688908	9830220	SOIL	NAD	none	Andrew Little
688909	9830217	SOIL	NAD	none	Andrew Little
688910	9830199	SOIL	NAD	none	Andrew Little
688911	9830207	SOIL	NAD	none	Andrew Little
688912	9830720	SOIL	NAD	none	Andrew Little
688913	9829868	SOIL	NAD	none	Andrew Little
688914	9829861	SOIL	NAD	none	Andrew Little
688915	9829842	SOIL	NAD	none	Andrew Little
688916	9829850	SOIL	NAD	none	Andrew Little
688917	9831110	SOIL	NAD	none	Andrew Little
688918	9830740	SOIL	NAD	none	Andrew Little
688919	9830744	SOIL	NAD	none	Andrew Little
688920	9830725	SOIL	NAD	none	Andrew Little
688921	9830156	SOIL	Chrysotile	Free chrysotile fibres present	Andrew Little
688922	9829891	SOIL	NAD	none	Andrew Little
688923	9830214	SOIL	NAD	none	Andrew Little
688924	9830693	SOIL	NAD	none	Andrew Little
688925	9830701	SOIL	NAD	none	Andrew Little
688926	9829885	SOIL	NAD	none	Andrew Little

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 14-13674
Client Ref 140817-4
Contract 140817-4

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
688894	9830983 SOIL	14/08/14	PT 1L (1kg)		
688895	9830988 SOIL	14/08/14	PT 1L (1kg)		
688896	9830755 SOIL	14/08/14	PT 1L (1kg)		
688897	9830974 SOIL	14/08/14	PT 1L (1kg)		
688898	9830975 SOIL	14/08/14	PT 1L (1kg)		
688899	9829958 SOIL	14/08/14	PT 1L (1kg)		
688900	9831144 SOIL	14/08/14	PT 1L (1kg)		
688901	9830775 SOIL	14/08/14	PT 1L (1kg)		
688902	9830204 SOIL	14/08/14	PT 1L (1kg)		
688903	9830209 SOIL	14/08/14	PT 1L (1kg)		
688904	9830699 SOIL	14/08/14	PT 1L (1kg)		
688905	9830778 SOIL	14/08/14	PT 1L (1kg)		
688906	9830770 SOIL	14/08/14	PT 1L (1kg)		
688907	9829917 SOIL	14/08/14	PT 1L (1kg)		
688908	9830220 SOIL	14/08/14	PT 1L (1kg)		
688909	9830217 SOIL	14/08/14	PT 1L (1kg)		
688910	9830199 SOIL	14/08/14	PT 1L (1kg)		
688911	9830207 SOIL	14/08/14	PT 1L (1kg)		
688912	9830720 SOIL	14/08/14	PT 1L (1kg)		
688913	9829868 SOIL	14/08/14	PT 1L (1kg)		
688914	9829861 SOIL	14/08/14	PT 1L (1kg)		
688915	9829842 SOIL	14/08/14	PT 1L (1kg)		
688916	9829850 SOIL	14/08/14	PT 1L (1kg)		
688917	9831110 SOIL	14/08/14	PT 1L (1kg)		
688918	9830740 SOIL	14/08/14	PT 1L (1kg)		
688919	9830744 SOIL	14/08/14	PT 1L (1kg)		
688920	9830725 SOIL	14/08/14	PT 1L (1kg)		
688921	9830156 SOIL	14/08/14	PT 1L (1kg)		
688922	9829891 SOIL	14/08/14	PT 1L (1kg)		
688923	9830214 SOIL	14/08/14	PT 1L (1kg)		
688924	9830693 SOIL	14/08/14	PT 1L (1kg)		
688925	9830701 SOIL	14/08/14	PT 1L (1kg)		
688926	9829885 SOIL	14/08/14	PT 1L (1kg)		

Key: P-Plastic T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months



SDG:	140817-4	Location:	Coed Darcy	Order Number:	CD0791
Job:	H_ATKINS_LDC-224	Customer:	Atkins Global Ltd	Report Number:	283884
Client Reference:	Site Wide Trial Pitting	Attention:	Jack Lowrie	Superseded Report:	282574

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 Anthophyllite	-
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.



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date: 14 November 2014
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 140725-32
Your Reference: Site Wide Trial Pitting
Location: Coed Darcy
Report No: 291885

We received 116 samples on Friday July 25, 2014 and 116 of these samples were scheduled for analysis which was completed on Wednesday August 27, 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: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9686600	IP 1127		0.30	24/07/2014
9686605	IP 1127		0.60	24/07/2014
9686623	IP 1127		2.00	24/07/2014
9686627	IP 1127		3.00	24/07/2014
9686634	IP 1128		0.20	24/07/2014
9686639	IP 1128		0.40	24/07/2014
9686643	IP 1128		0.70	24/07/2014
9686648	IP 1129		0.20	24/07/2014
9686656	IP 1129		0.40	24/07/2014
9686662	IP 1130		0.30	24/07/2014
9686668	IP 1130		0.55	24/07/2014
9686674	IP 1130		0.80	24/07/2014
9686683	IP 1185		0.20	24/07/2014
9686688	IP 1185		0.50	24/07/2014
9686695	IP 1185		0.80	24/07/2014
9686573	IP 1186		0.30	24/07/2014
9686580	IP 1186		0.80	24/07/2014
9686584	IP 1186		1.00	24/07/2014
9686590	IP 1186		2.00	24/07/2014
9686594	IP 1186		3.50	24/07/2014
9686484	IP 1238		0.10	23/07/2014
9686496	IP 1238		0.80	23/07/2014
9686503	IP 1238		2.50	23/07/2014
9686507	IP 1238		3.50	23/07/2014
9686513	IP 1239		0.20	23/07/2014
9686521	IP 1239		0.60	23/07/2014
9686526	IP 1239		2.00	23/07/2014
9686530	IP 1239		3.00	23/07/2014
9686536	IP 1239		4.00	23/07/2014
9686543	IP 1240		0.30	24/07/2014
9686548	IP 1240		0.70	24/07/2014
9686560	IP 1240		2.00	24/07/2014
9686564	IP 1240		2.30	24/07/2014
9686568	IP 1240		2.80	24/07/2014
9686432	IP 1426		0.50	23/07/2014
9686438	IP 1426		1.50	23/07/2014
9686443	IP 1426		2.50	23/07/2014
9686416	IP 1427		0.50	23/07/2014
9686422	IP 1427		1.50	23/07/2014
9686427	IP 1427		2.50	23/07/2014
9686385	IP 1429		0.50	23/07/2014
9686389	IP 1429		1.50	23/07/2014
9686395	IP 1429		2.50	23/07/2014
9686403	IP 1429		3.50	23/07/2014
9686762	IP 1453		0.50	24/07/2014
9686766	IP 1453		1.50	24/07/2014
9686771	IP 1453		2.50	24/07/2014
9686776	IP 1453		3.50	24/07/2014
9686782	IP 1453		4.50	24/07/2014
9686732	IP1477		0.50	24/07/2014
9686787	IP1477		1.00	24/07/2014
9686848	IP1477		2.00	24/07/2014
9686833	IP 1480		0.50	24/07/2014
9686837	IP 1480		1.50	24/07/2014
9686844	IP 1480		2.50	24/07/2014
9686853	IP 1480		3.50	24/07/2014



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

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Order Number: CD0759
Report Number: 291885
Superseded Report:

9686868	IP 1481	0.50	24/07/2014
9686875	IP 1481	1.50	24/07/2014
9686881	IP 1481	2.40	24/07/2014
9686859	IP 1523	0.50	24/07/2014
9686864	IP 1523	1.50	24/07/2014
9686793	IP 1525	0.50	24/07/2014
9686797	IP 1525	1.50	24/07/2014
9686805	IP 1525	2.50	24/07/2014
9686811	IP 1525	3.50	24/07/2014
9686743	IP 1526	0.50	24/07/2014
9686748	IP 1526	1.50	24/07/2014
9686753	IP 1526	2.50	24/07/2014
9686758	IP 1526	3.50	24/07/2014
9686490	IP1532	1.50	24/07/2014
9686553	IP1532	2.50	24/07/2014
9686717	IP 1557	0.50	24/07/2014
9686722	IP 1557	1.50	24/07/2014
9686727	IP 1557	2.50	24/07/2014
9686739	IP 1557	3.50	24/07/2014
9686366	IP 1600	0.50	23/07/2014
9686372	IP 1600	1.50	23/07/2014
9686376	IP 1600	2.50	23/07/2014
9686380	IP 1600	3.80	23/07/2014
9686350	IP1602	1.50	24/07/2014
9686457	IP1634	0.50	24/07/2014
9686462	IP1634	1.50	24/07/2014
9686469	IP1635	0.50	24/07/2014
9686474	IP1635	1.50	24/07/2014
9686479	IP1635	2.50	24/07/2014
9686297	TP 1532	0.50	24/07/2014
9686302	TP 1602	0.50	24/07/2014
9686902	TP6104	0.50	24/07/2014
9686912	TP6104	1.50	24/07/2014
9686917	TP6104	2.50	24/07/2014
9686922	TP6104	3.50	24/07/2014
9686928	TP6104	4.50	24/07/2014
9686886	TP6105	0.50	24/07/2014
9686892	TP6105	1.50	24/07/2014
9686897	TP6105	2.50	24/07/2014
9686827	TPE0691	0.50	24/07/2014
9686820	TPE0691	1.50	24/07/2014
9686815	TPE0691	2.40	24/07/2014
9686907	TPE0695	0.50	24/07/2014
9686614	TPE0696	0.50	24/07/2014
9686679	TPE0696	1.50	24/07/2014
9686339	TPE0725	0.50	23/07/2014
9686346	TPE0725	1.50	23/07/2014
9686354	TPE0725	2.50	23/07/2014
9686359	TPE0725	3.50	23/07/2014
9686699	TPE0770	0.50	24/07/2014
9686703	TPE0770	1.50	24/07/2014
9686707	TPE0770	2.50	24/07/2014
9686711	TPE0770	3.50	24/07/2014
9686412	TPE0773	0.50	24/07/2014
9686449	TPE0773	1.50	24/07/2014
9686308	TPE1598	0.50	23/07/2014
9686312	TPE1598	1.50	23/07/2014
9686319	TPE1598	2.50	23/07/2014
9686325	TPE1598	3.50	23/07/2014



CERTIFICATE OF ANALYSIS

Validated

SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

9686330

TPE1598

4.30

23/07/2014

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

Order Number: CD0759
Report Number: 291885
Superseded Report:

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SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
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Order Number: CD0759
Report Number: 291885
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9686526	IP 1239					2.00		400g Tub (ALE214)	
	9686521	IP 1239					0.60		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)	
	9686513	IP 1239					0.20		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)	
	9686507	IP 1238					3.50		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)	
9686503	IP 1238					2.50		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
9686496	IP 1238					0.80		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
9686484	IP 1238					0.10		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
9686594	IP 1186					3.50		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
9686590	IP 1186					2.00		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
9686584	IP 1186					1.00		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
9686580	IP 1186					0.80		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
9686573	IP 1186					0.30		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
9686695	IP 1185					0.80		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
9686688	IP 1185					0.50		250g Amber Jar 60g VOC (ALE215) 400g Tub (ALE214)		
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 47	X	X	X	X	X		X	X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 7						X		X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 116		X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 116		X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 116	X	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 116		X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 116		X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 116	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 113		X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 26				X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 116		X	X	X	X	X	X	X



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9686427	IP 1427					2.50		60g VOC (ALE215)	
	9686422	IP 1427					1.50		400g Tub (ALE214)	
	9686416	IP 1427					0.50		250g Amber Jar	
	9686443	IP 1426					2.50		60g VOC (ALE215)	
Asbestos ID in Solid Samples	9686432	IP 1426					0.50		400g Tub (ALE214)	
	9686438	IP 1426					1.50		250g Amber Jar	
Asbestos Quantification - Full	9686568	IP 1240					2.80		60g VOC (ALE215)	
	9686564	IP 1240					2.30		400g Tub (ALE214)	
EPH CWG (Aliphatic) GC (S)	9686560	IP 1240					2.00		250g Amber Jar	
	9686548	IP 1240					0.70		60g VOC (ALE215)	
EPH CWG (Aromatic) GC (S)	9686543	IP 1240					0.30		400g Tub (ALE214)	
	9686536	IP 1239					4.00		250g Amber Jar	
GRO by GC-FID (S)	9686530	IP 1239					3.00		60g VOC (ALE215)	
	9686526	IP 1239					2.00		400g Tub (ALE214)	
Metals in solid samples by OES									250g Amber Jar	
									60g VOC (ALE215)	
PAH by GCMS									400g Tub (ALE214)	
									250g Amber Jar	
pH									60g VOC (ALE215)	
									400g Tub (ALE214)	
Sample description									250g Amber Jar	
									60g VOC (ALE215)	
Total Organic Carbon									400g Tub (ALE214)	
									250g Amber Jar	
TPH CWG GC (S)									60g VOC (ALE215)	
									400g Tub (ALE214)	



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Client Reference: Site Wide Trial Pitting

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Customer: Atkins Global Ltd
Attention: Jack Lowrie

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SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9686837	IP 1480					1.50		250g Amber Jar	
	9686833	IP 1480					0.50		60g VOC (ALE215) 400g Tub (ALE214)	
	9686848	IP1477					2.00		250g Amber Jar	
	9686787	IP1477					1.00		60g VOC (ALE215) 400g Tub (ALE214)	
	9686732	IP1477					0.50		250g Amber Jar	
	9686782	IP 1453					4.50		60g VOC (ALE215) 400g Tub (ALE214)	
	9686776	IP 1453					3.50		250g Amber Jar	
	9686771	IP 1453					2.50		60g VOC (ALE215) 400g Tub (ALE214)	
	9686766	IP 1453					1.50		250g Amber Jar	
	9686762	IP 1453					0.50		60g VOC (ALE215) 400g Tub (ALE214)	
	9686403	IP 1429					3.50		250g Amber Jar	
	9686395	IP 1429					2.50		60g VOC (ALE215) 400g Tub (ALE214)	
	9686389	IP 1429					1.50		250g Amber Jar	
	9686385	IP 1429					0.50		60g VOC (ALE215) 400g Tub (ALE214)	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 47								
Asbestos Quantification - Full	All	NDPs: 0 Tests: 7								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 116								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 116								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 116								
Metals in solid samples by OES	All	NDPs: 0 Tests: 116								
PAH by GCMS	All	NDPs: 0 Tests: 116								
pH	All	NDPs: 0 Tests: 116								
Sample description	All	NDPs: 0 Tests: 113								
Total Organic Carbon	All	NDPs: 0 Tests: 26								
TPH CWG GC (S)	All	NDPs: 0 Tests: 116								



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SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9686748		IP 1526				1.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686743		IP 1526				0.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686811		IP 1525				3.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686805		IP 1525				2.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686797		IP 1525				1.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686793		IP 1525				0.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686864		IP 1523				1.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686859		IP 1523				0.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686881		IP 1481				2.40		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686875		IP 1481				1.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686868		IP 1481				0.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686853		IP 1480				3.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686844		IP 1480				2.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686837		IP 1480				1.50		60g VOC (ALE215) 400g Tub (ALE214)	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 47								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 116								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 116								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 116								
Metals in solid samples by OES	All	NDPs: 0 Tests: 116								
PAH by GCMS	All	NDPs: 0 Tests: 116								
pH	All	NDPs: 0 Tests: 116								
Sample description	All	NDPs: 0 Tests: 113								
Total Organic Carbon	All	NDPs: 0 Tests: 26								
TPH CWG GC (S)	All	NDPs: 0 Tests: 116								



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SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9686457	IP1634					0.50		250g Amber Jar	
	9686350	IP1602					1.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686380	IP 1600					3.80		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686376	IP 1600					2.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686372	IP 1600					1.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686366	IP 1600					0.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686739	IP 1557					3.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686727	IP 1557					2.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686722	IP 1557					1.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686717	IP 1557					0.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686553	IP1532					2.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686490	IP1532					1.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686758	IP 1526					3.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
	9686753	IP 1526					2.50		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 47								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 116								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 116								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 116								
Metals in solid samples by OES	All	NDPs: 0 Tests: 116								
PAH by GCMS	All	NDPs: 0 Tests: 116								
pH	All	NDPs: 0 Tests: 116								
Sample description	All	NDPs: 0 Tests: 113								
Total Organic Carbon	All	NDPs: 0 Tests: 26								
TPH CWG GC (S)	All	NDPs: 0 Tests: 116								

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SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9686703		TPE0770				1.50		60g VOC (ALE215)	
	9686699		TPE0770				0.50		400g Tub (ALE214)	
	9686359		TPE0725				3.50		250g Amber Jar	
	9686354		TPE0725				2.50		60g VOC (ALE215)	
Asbestos ID in Solid Samples	9686346		TPE0725				1.50		400g Tub (ALE214)	
	9686339		TPE0725				0.50		250g Amber Jar	
EPH CWG (Aliphatic) GC (S)	9686679		TPE0696				1.50		60g VOC (ALE215)	
	9686614		TPE0696				0.50		400g Tub (ALE214)	
EPH CWG (Aromatic) GC (S)	9686907		TPE0695				0.50		250g Amber Jar	
	9686820		TPE0691				1.50		60g VOC (ALE215)	
GRO by GC-FID (S)	9686815		TPE0691				2.40		400g Tub (ALE214)	
	9686897		TPE0691				2.50		250g Amber Jar	
Metals in solid samples by OES	9686827		TPE0691				0.50		60g VOC (ALE215)	
	9686892		TPE0691				1.50		400g Tub (ALE214)	
PAH by GCMS	9686827		TPE0691				0.50		250g Amber Jar	
	9686820		TPE0691				1.50		60g VOC (ALE215)	
pH	9686815		TPE0691				2.40		400g Tub (ALE214)	
	9686897		TPE0691				2.50		250g Amber Jar	
Sample description	9686827		TPE0691				0.50		60g VOC (ALE215)	
	9686820		TPE0691				1.50		400g Tub (ALE214)	
Total Organic Carbon	9686815		TPE0691				2.40		400g Tub (ALE214)	
	9686897		TPE0691				2.50		250g Amber Jar	
TPH CWG GC (S)	9686827		TPE0691				0.50		60g VOC (ALE215)	
	9686820		TPE0691				1.50		400g Tub (ALE214)	
Asbestos ID in Solid Samples	9686815		TPE0691				2.40		400g Tub (ALE214)	
	9686897		TPE0691				2.50		250g Amber Jar	
EPH CWG (Aliphatic) GC (S)	9686827		TPE0691				0.50		60g VOC (ALE215)	
	9686820		TPE0691				1.50		400g Tub (ALE214)	
EPH CWG (Aromatic) GC (S)	9686815		TPE0691				2.40		400g Tub (ALE214)	
	9686897		TPE0691				2.50		250g Amber Jar	
GRO by GC-FID (S)	9686827		TPE0691				0.50		60g VOC (ALE215)	
	9686820		TPE0691				1.50		400g Tub (ALE214)	
Metals in solid samples by OES	9686815		TPE0691				2.40		400g Tub (ALE214)	
	9686897		TPE0691				2.50		250g Amber Jar	
PAH by GCMS	9686827		TPE0691				0.50		60g VOC (ALE215)	
	9686820		TPE0691				1.50		400g Tub (ALE214)	
pH	9686815		TPE0691				2.40		400g Tub (ALE214)	
	9686897		TPE0691				2.50		250g Amber Jar	
Sample description	9686827		TPE0691				0.50		60g VOC (ALE215)	
	9686820		TPE0691				1.50		400g Tub (ALE214)	
Total Organic Carbon	9686815		TPE0691				2.40		400g Tub (ALE214)	
	9686897		TPE0691				2.50		250g Amber Jar	
TPH CWG GC (S)	9686827		TPE0691				0.50		60g VOC (ALE215)	
	9686820		TPE0691				1.50		400g Tub (ALE214)	



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SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)											
	Customer Sample Reference											
	AGS Reference											
	Depth (m)											
	Container											
			968630	TPE1598		60g VOC (ALE215)						
			9686325	TPE1598		400g Tub (ALE214)						
			9686319	TPE1598		250g Amber Jar						
			9686312	TPE1598		60g VOC (ALE215)						
			9686308	TPE1598		400g Tub (ALE214)						
			9686449	TPE0773		250g Amber Jar						
			9686412	TPE0773		60g VOC (ALE215)						
			9686711	TPE0770		400g Tub (ALE214)						
			9686707	TPE0770		250g Amber Jar						
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 47										
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 116										
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 116										
GRO by GC-FID (S)	All	NDPs: 0 Tests: 116										
Metals in solid samples by OES	All	NDPs: 0 Tests: 116										
PAH by GCMS	All	NDPs: 0 Tests: 116										
pH	All	NDPs: 0 Tests: 116										
Sample description	All	NDPs: 0 Tests: 113										
Total Organic Carbon	All	NDPs: 0 Tests: 26										
TPH CWG GC (S)	All	NDPs: 0 Tests: 116										



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Sample Descriptions

Grain Sizes

very fine <0.063mm fine 0.063mm - 0.1mm medium 0.1mm - 2mm coarse 2mm - 10mm very coarse >10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
9686732	IP1477	0.50	Dark Brown	Sand	0.1 - 2 mm	Stones	Stones
9686787	IP1477	1.00	Dark Brown	Sand	0.1 - 2 mm	Stones	None
9686848	IP1477	2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9686490	IP1532	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	None
9686553	IP1532	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9686350	IP1602	1.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
9686457	IP1634	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9686462	IP1634	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum
9686469	IP1635	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9686474	IP1635	1.50	Dark Brown	Sand	0.1 - 2 mm	Stones	Oil/Petroleum
9686479	IP1635	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9686600	IP 1127	0.30	Dark Brown	Sand	0.1 - 2 mm	Stones	Vegetation
9686605	IP 1127	0.60	Black	Sand	0.1 - 2 mm	Stones	None
9686623	IP 1127	2.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9686627	IP 1127	3.00	Grey	Clay Loam	0.063 - 0.1 mm	Stones	None
9686634	IP 1128	0.20	Grey	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9686639	IP 1128	0.40	Black	N/A	0.1 - 2 mm	Stones	Crystalline Material
9686643	IP 1128	0.70	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
9686648	IP 1129	0.20	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9686656	IP 1129	0.40	Black	N/A	0.1 - 2 mm	Stones	Crushed Brick
9686662	IP 1130	0.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
9686668	IP 1130	0.55	Dark Brown	Sand	0.1 - 2 mm	Stones	Brick
9686674	IP 1130	0.80	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
9686683	IP 1185	0.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9686688	IP 1185	0.50	Dark Brown	Sand	0.1 - 2 mm	Vegetation	Stones
9686695	IP 1185	0.80	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9686573	IP 1186	0.30	Black	Sandy Loam	0.1 - 2 mm	Brick	Stones
9686580	IP 1186	0.80	Dark Brown	Clay Loam	0.063 - 0.1 mm	None	None
9686584	IP 1186	1.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
9686590	IP 1186	2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9686594	IP 1186	3.50	Black	Sandy Clay	0.063 - 0.1 mm	Stones	None
9686484	IP 1238	0.10	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
9686496	IP 1238	0.80	Black	Clinker	0.1 - 2 mm	N/A	Stones
9686503	IP 1238	2.50	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
9686507	IP 1238	3.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	N/A
9686513	IP 1239	0.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
9686521	IP 1239	0.60	Black	N/A	0.1 - 2 mm	Stones	None
9686526	IP 1239	2.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None



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			Colour	Description	Grain size	Inclusions	Inclusions 2
9686530	IP 1239	3.00	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9686536	IP 1239	4.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
9686543	IP 1240	0.30	Dark Brown	Silt Loam	0.063 - 0.1 mm	Stones	Vegetation
9686548	IP 1240	0.70	Black	Sand	0.1 - 2 mm	Concrete/Aggregate	Stones
9686560	IP 1240	2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9686564	IP 1240	2.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9686568	IP 1240	2.80	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9686432	IP 1426	0.50	Black	N/A	0.1 - 2 mm	Stones	Crystalline Material
9686438	IP 1426	1.50	Black	Sand	0.1 - 2 mm	Stones	None
9686443	IP 1426	2.50	Black	Sand	0.1 - 2 mm	Stones	None
9686416	IP 1427	0.50	Dark Brown	Gravel	> 10 mm	Stones	None
9686422	IP 1427	1.50	Black	Clinker	2 - 10 mm	Stones	None
9686427	IP 1427	2.50	Black	Sand	0.1 - 2 mm	Stones	None
9686385	IP 1429	0.50	Black	Shale	2 - 10 mm	None	None
9686389	IP 1429	1.50	Black	Sand	0.1 - 2 mm	Stones	None
9686395	IP 1429	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	N/A	None
9686403	IP 1429	3.50	Black	Sand	0.1 - 2 mm	Stones	None
9686762	IP 1453	0.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
9686766	IP 1453	1.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Vegetation	Stones
9686771	IP 1453	2.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9686776	IP 1453	3.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9686782	IP 1453	4.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9686833	IP 1480	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9686837	IP 1480	1.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9686844	IP 1480	2.50	Dark Brown	Sand	0.1 - 2 mm	Stones	N/A
9686853	IP 1480	3.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9686868	IP 1481	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
9686875	IP 1481	1.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
9686881	IP 1481	2.40	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9686859	IP 1523	0.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
9686864	IP 1523	1.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
9686793	IP 1525	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9686797	IP 1525	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9686805	IP 1525	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9686811	IP 1525	3.50	Dark Brown	Sand	0.1 - 2 mm	Stones	None
9686743	IP 1526	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	None
9686748	IP 1526	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
9686753	IP 1526	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9686758	IP 1526	3.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9686717	IP 1557	0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9686722	IP 1557	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum



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			Colour	Description	Grain size	Inclusions	Inclusions 2
9686727	IP 1557	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9686739	IP 1557	3.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9686366	IP 1600	0.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
9686372	IP 1600	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Stones
9686376	IP 1600	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Stones
9686380	IP 1600	3.80	Dark Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Stones
9686902	TP6104	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9686912	TP6104	1.50	Black	Sandy Loam	0.1 - 2 mm	Stones	N/A
9686917	TP6104	2.50	Black	Sandy Loam	0.1 - 2 mm	Concrete/Aggregate	Stones
9686922	TP6104	3.50	Black	Sandy Loam	0.1 - 2 mm	Concrete/Aggregate	Stones
9686928	TP6104	4.50	Black	Sandy Loam	0.1 - 2 mm	Concrete/Aggregate	Stones
9686886	TP6105	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9686892	TP6105	1.50	Black	Sandy Loam	0.1 - 2 mm	Stones	N/A
9686897	TP6105	2.50	Black	Sandy Loam	0.1 - 2 mm	Concrete/Aggregate	Stones
9686297	TP 1532	0.50	Black	Sand	0.1 - 2 mm	Stones	None
9686302	TP 1602	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9686815	TPE0691	2.40	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	N/A
9686820	TPE0691	1.50	Dark Brown	Sand	0.1 - 2 mm	Stones	Vegetation
9686827	TPE0691	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9686907	TPE0695	0.50	Black	Sand	0.1 - 2 mm	Stones	None
9686614	TPE0696	0.50	Black	Sand	0.1 - 2 mm	Stones	None
9686679	TPE0696	1.50	Grey	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9686339	TPE0725	0.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
9686346	TPE0725	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9686354	TPE0725	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Stones
9686359	TPE0725	3.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9686699	TPE0770	0.50	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9686703	TPE0770	1.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9686707	TPE0770	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	None
9686711	TPE0770	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9686412	TPE0773	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
9686449	TPE0773	1.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9686308	TPE1598	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9686312	TPE1598	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9686319	TPE1598	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9686325	TPE1598	3.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9686330	TPE1598	4.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

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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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Job:	H_ATKINS_LDC-224
Client Reference:	Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
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Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

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Customer: Atkins Global Ltd
Attention: Jack Lowrie

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Results Legend		Customer Sample Ref.	IP 1429		IP 1429		IP 1453		IP 1453		IP 1453	
#	ISO17025 accredited.		2.50	3.50	0.50	1.50	2.50	3.50				
M	mCERTS accredited.	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
aq	Aqueous / settled sample.	23/07/2014	23/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	
diss.filt	Dissolved / filtered sample.	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	
tot.unfilt	Total / unfiltered sample.	140725-32	140725-32	140725-32	140725-32	140725-32	140725-32	140725-32	140725-32	140725-32	140725-32	
*	Subcontracted test.	9686395	9686403	9686762	9686766	9686771	9686776	9686771	9686776	9686771	9686776	
**	% 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	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	SDG Ref	
(F)	Trigger breach confirmed	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	Lab Sample No.(s)	
1-5&*\$@	Sample deviation (see appendix)	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	AGS Reference	
Component	LOD/Units	Method										
Naphthalene-d8 % recovery**	%	TM218	124	115	105	98.1	95.6	115				
Acenaphthene-d10 % recovery**	%	TM218	127	120	98.6	96.3	94.7	115				
Phenanthrene-d10 % recovery**	%	TM218	117	121	97	95.1	92.8	113				
Chrysene-d12 % recovery**	%	TM218	115	116	91.3	81.2	91	104				
Perylene-d12 % recovery**	%	TM218	125	125	97.9	68.2	87.3	105				
Naphthalene	<9 µg/kg	TM218	1930	410	1870	27.2	12.1	32.9				
Acenaphthylene	<12 µg/kg	TM218	171	30.4	<12	<12	<12	<12				
Acenaphthene	<8 µg/kg	TM218	158	53.7	305	11.7	<8	13.9				
Fluorene	<10 µg/kg	TM218	199	130	619	19.3	<10	31.3				
Phenanthrene	<15 µg/kg	TM218	3470	1960	772	203	85.5	129				
Anthracene	<16 µg/kg	TM218	689	296	130	<16	<16	<16				
Fluoranthene	<17 µg/kg	TM218	617	1160	95.9	42.8	<17	<17				
Pyrene	<15 µg/kg	TM218	2500	2110	167	36.5	<15	18.5				
Benz(a)anthracene	<14 µg/kg	TM218	1200	1480	52.4	<14	21.3	<14				
Chrysene	<10 µg/kg	TM218	2240	2420	67.3	113	39.2	48.1				
Benzo(b)fluoranthene	<15 µg/kg	TM218	4210	2170	109	91.7	39	45.3				
Benzo(k)fluoranthene	<14 µg/kg	TM218	397	521	38.9	<14	<14	<14				
Benzo(a)pyrene	<15 µg/kg	TM218	3110	1490	64.3	<15	<15	<15				
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	1490	760	47.8	<18	<18	<18				
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	1390	417	<23	<23	<23	<23				
Benzo(g,h,i)perylene	<24 µg/kg	TM218	3180	1210	74.6	<24	<24	<24				
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	26900	16600	4410	545	197	319				

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Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

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TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1127	IP 1127	IP 1127	IP 1127	IP 1128	IP 1128
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	IP 1127	IP 1127	IP 1127	IP 1127	IP 1128	IP 1128
M	mCERTS accredited.		0.30	0.60	2.00	3.00	0.20	0.40
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
diss.filt	Dissolved / filtered sample.		24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
tot.unfilt	Total / unfiltered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
*	Subcontracted test.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
**	% 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		9686600	9686605	9686623	9686627	9686634	9686639
(F)	Trigger breach confirmed							
1-5&*&\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	77	65	95	37	84	74
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176	1620	1230	<176	584	151000
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089	<40	<40	<40	<40	<40	466
Toluene	<2 µg/kg	TM089	14	44.4	<8	<8	11.7	<8
Ethylbenzene	<3 µg/kg	TM089	<12	14.4	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089	<24	79.2	<24	<24	<24	549
o-Xylene	<3 µg/kg	TM089	<12	22.8	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	102	<9	<9	<36	549
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	161	<24	<24	<96	1020
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<40	46.3	<40	<40	775
Aliphatics >C6-C8	<10 µg/kg	TM089	<40	<40	311	<40	82	32100
Aliphatics >C8-C10	<10 µg/kg	TM089	<40	193	224	<40	84.1	31400
Aliphatics >C10-C12	<10 µg/kg	TM089	<40	646	287	<40	192	38800
Aliphatics >C12-C16	<100 µg/kg	TM173	44500	1240000	2750	<100	84000	233000
Aliphatics >C16-C21	<100 µg/kg	TM173	129000	866000	5710	<100	141000	86600
Aliphatics >C21-C35	<100 µg/kg	TM173	216000	131000	4640	<100	271000	112000
Aliphatics >C35-C44	<100 µg/kg	TM173	68000	19200	<100	<100	82900	18500
Total Aliphatics >C12-C44	<100 µg/kg	TM173	458000	2250000	13100	<100	579000	450000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	<40	<40	<40	466
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	44.4	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40	245	157	<40	66	21500
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40	431	192	<40	128	25900
Aromatics >EC12-EC16	<100 µg/kg	TM173	3930	61100	<100	<100	9330	22500
Aromatics >EC16-EC21	<100 µg/kg	TM173	27600	174000	<100	<100	43700	31700
Aromatics >EC21-EC35	<100 µg/kg	TM173	168000	143000	<100	<100	250000	73100
Aromatics >EC35-EC44	<100 µg/kg	TM173	84000	49800	<100	<100	126000	30200
Aromatics >EC40-EC44	<100 µg/kg	TM173	33900	13000	<100	<100	48000	12100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	284000	428000	<100	<100	430000	157000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	742000	2680000	14300	<100	1010000	759000
Aromatics >EC16-EC35	<100 µg/kg	TM173	196000	317000	<100	<100	294000	105000



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Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1128	IP 1129	IP 1129	IP 1130	IP 1130	IP 1130
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.70	0.20	0.40	0.30	0.55	0.80
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
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		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
(F)	Trigger breach confirmed		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
1-5&*&\$@	Sample deviation (see appendix)		9686643	9686648	9686656	9686662	9686668	9686674
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	74	61	64	63	62	89
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	17700	664	116000	353	6000	89200
			M	M	#	M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
			M	M	#	M	M	M
Benzene	<10 µg/kg	TM089	291	<40	249	<40	124	5740
			M	M	#	M	M	M
Toluene	<2 µg/kg	TM089	<8	30.2	531	42.8	190	<8
			M	M	#	M	M	M
Ethylbenzene	<3 µg/kg	TM089	528	<12	1260	12.8	128	519
			M	M	#	M	M	M
m,p-Xylene	<6 µg/kg	TM089	970	35.6	5950	44.9	307	4770
			M	M	#	M	M	M
o-Xylene	<3 µg/kg	TM089	43.9	16.2	1250	13.9	63.3	<12
			M	M	#	M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	1010	51.8	7200	58.8	370	4770
					♦	♦		
sum of detected BTEX by GC	<24 µg/kg	TM089	1830	<96	9240	114	812	11000
					♦	♦		
Aliphatics >C5-C6	<10 µg/kg	TM089	1490	<40	878	<40	139	4700
					♦	♦		
Aliphatics >C6-C8	<10 µg/kg	TM089	3710	122	3670	59.9	1170	31100
					♦	♦		
Aliphatics >C8-C10	<10 µg/kg	TM089	3570	115	34200	55.6	1000	17200
					♦	♦		
Aliphatics >C10-C12	<10 µg/kg	TM089	2850	127	27300	<40	1320	8210
					♦	♦		
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	96100	204000	35400	102000	1430
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	43200	52800	116000	149000	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	138000	132000	310000	440000	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	53000	37300	104000	68700	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	330000	427000	565000	759000	1430
Aromatics >EC5-EC7	<10 µg/kg	TM089	291	<40	249	<40	124	5740
					♦	♦		
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	531	42.8	190	<40
					♦	♦		
Aromatics >EC8-EC10	<10 µg/kg	TM089	3920	136	31300	108	1170	16700
					♦	♦		
Aromatics >EC10-EC12	<10 µg/kg	TM089	1900	85.2	18200	<40	882	5480
					♦	♦		
Aromatics >EC12-EC16	<100 µg/kg	TM173	1460	16200	48400	5690	17900	959
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	18500	31600	21700	42000	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	109000	2570000	170000	197000	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	61700	28800	105000	75500	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	26300	11400	43800	28900	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1460	205000	2670000	302000	332000	959
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	19200	536000	3220000	868000	1100000	91600
Aromatics >EC16-EC35	<100 µg/kg	TM173	<100	127000	2600000	191000	239000	<100



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1185	IP 1185	IP 1185	IP 1186	IP 1186	IP 1186
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	IP 1185	IP 1185	IP 1185	IP 1186	IP 1186	IP 1186
M	mCERTS accredited.		0.20	0.50	0.80	0.30	0.80	1.00
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
diss.filt	Dissolved / filtered sample.		24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
tot.unfilt	Total / unfiltered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
*	Subcontracted test.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
**	% 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		9686683	9686688	9686695	9686573	9686580	9686584
(F)	Trigger breach confirmed							
1-5&*&@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	64	56	77	95	120	85
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	528	596	22200	8290	305	314
			M	♦ M	M	M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
			M	♦ M	M	M	M	M
Benzene	<10 µg/kg	TM089	<40	<40	396	52.9	<40	<40
			M	♦ M	M	M	M	M
Toluene	<2 µg/kg	TM089	54.8	35	290	141	10.1	<8
			M	♦ M	M	M	M	M
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	21.9	<12	<12
			M	♦ M	M	M	M	M
m,p-Xylene	<6 µg/kg	TM089	47.7	38.4	217	122	<24	<24
			M	♦ M	M	M	M	M
o-Xylene	<3 µg/kg	TM089	12.2	15.8	<12	23	<12	<12
			M	♦ M	M	M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	59.9	54.2	217	145	<9	<9
				♦				
sum of detected BTEX by GC	<24 µg/kg	TM089	115	<96	903	361	<24	<24
				♦				
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<40	1910	185	<40	<40
				♦				
Aliphatics >C6-C8	<10 µg/kg	TM089	103	208	9980	683	76.2	<40
				♦				
Aliphatics >C8-C10	<10 µg/kg	TM089	71	97.2	4420	665	90.7	73.9
				♦				
Aliphatics >C10-C12	<10 µg/kg	TM089	70	42.9	1210	3570	<40	80.6
				♦				
Aliphatics >C12-C16	<100 µg/kg	TM173	17000	<100	<100	41100	26400	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	40700	<100	1100	11400	32900	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	137000	<100	6610	45200	49900	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	37600	<100	<100	9290	11800	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	232000	<100	7710	107000	121000	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	396	52.9	<40	<40
				♦				
Aromatics >EC7-EC8	<10 µg/kg	TM089	54.8	<40	290	141	<40	<40
				♦				
Aromatics >EC8-EC10	<10 µg/kg	TM089	117	129	3170	610	70.6	50.4
				♦				
Aromatics >EC10-EC12	<10 µg/kg	TM089	46.6	<40	808	2380	<40	53.8
				♦				
Aromatics >EC12-EC16	<100 µg/kg	TM173	20100	3730	<100	6500	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	293000	20800	<100	9900	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	1080000	91100	<100	47400	625	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	259000	22500	<100	17200	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	79000	7850	<100	6470	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1650000	138000	<100	80900	625	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1880000	139000	29900	196000	122000	314
Aromatics >EC16-EC35	<100 µg/kg	TM173	1370000	112000	<100	57300	625	<100



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1186	IP 1186	IP 1238	IP 1238	IP 1238	IP 1238
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.00	3.50	0.10	0.80	2.50	3.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	23/07/2014	23/07/2014	23/07/2014	23/07/2014
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		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
(F)	Trigger breach confirmed		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
1-5&*&\$@	Sample deviation (see appendix)		9686590	9686594	9686484	9686496	9686503	9686507
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	62	24	87	82	59	53
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176	<440	12200	540	<44	<44
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<50	<20	<20	<5	<5
Benzene	<10 µg/kg	TM089	<40	<100	<40	145	<10	<10
Toluene	<2 µg/kg	TM089	<8	<20	<8	97.8	<2	<2
Ethylbenzene	<3 µg/kg	TM089	<12	<30	<12	<12	<3	<3
m,p-Xylene	<6 µg/kg	TM089	<24	<60	<24	85.1	<6	<6
o-Xylene	<3 µg/kg	TM089	<12	<30	<12	22.9	<3	<3
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<9	<9	108	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<24	<24	351	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<100	<40	<40	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	<40	<100	761	<40	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089	<40	<100	3560	57.2	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089	<40	<100	3310	<40	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	4380	3920	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100	33900	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	<100	141000	2480	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	36000	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	<100	216000	6400	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<100	<40	145	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<100	<40	97.8	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40	<100	2370	151	<10	<10
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40	<100	2200	<40	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	4960	4380	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	6200	8390	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	13500	78700	<100	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	5220	36000	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	1160	13600	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	29800	128000	<100	<100	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	<100	29800	355000	6940	<100	<100
Aromatics >EC16-EC35	<100 µg/kg	TM173	<100	19700	87100	<100	<100	<100



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1239	IP 1239	IP 1239	IP 1239	IP 1239	IP 1240
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20	0.60	2.00	3.00	4.00	0.30
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		23/07/2014	23/07/2014	23/07/2014	23/07/2014	23/07/2014	24/07/2014
diss.filt	Dissolved / filtered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
tot.unfilt	Total / unfiltered sample.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
*	Subcontracted test.		9686513	9686521	9686526	9686530	9686536	9686543
**	% 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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	73	68	96	99	18	71
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	122	269	53.6	148	<44	380
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<20	<5	<5	<5	<20
Benzene	<10 µg/kg	TM089	<10	<40	13.1	<10	<10	<40
Toluene	<2 µg/kg	TM089	2.24	11.9	<2	<2	<2	17.5
Ethylbenzene	<3 µg/kg	TM089	<3	<12	<3	<3	<3	<12
m,p-Xylene	<6 µg/kg	TM089	<6	<24	<6	<6	<6	37.1
o-Xylene	<3 µg/kg	TM089	<3	<12	<3	<3	<3	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	<9	<9	37.1
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24	<24	<24	54.6
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<40	<10	<10	<10	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	<40	<10	11.3	<10	<40
Aliphatics >C8-C10	<10 µg/kg	TM089	20.2	61.9	<10	40.7	<10	69.8
Aliphatics >C10-C12	<10 µg/kg	TM089	39.2	46.4	<10	38.4	<10	73.1
Aliphatics >C12-C16	<100 µg/kg	TM173	5960	78500	<100	<100	<100	42200
Aliphatics >C16-C21	<100 µg/kg	TM173	5420	150000	<100	<100	<100	18300
Aliphatics >C21-C35	<100 µg/kg	TM173	17900	161000	<100	<100	<100	53900
Aliphatics >C35-C44	<100 µg/kg	TM173	3450	46400	<100	<100	<100	14400
Total Aliphatics >C12-C44	<100 µg/kg	TM173	32700	436000	<100	<100	<100	129000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<40	13.1	<10	<10	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<40	<10	<10	<10	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	21.3	64.3	<10	27.1	<10	98.2
Aromatics >EC10-EC12	<10 µg/kg	TM089	25.8	<40	<10	26	<10	49.1
Aromatics >EC12-EC16	<100 µg/kg	TM173	3660	14200	<100	<100	837	9060
Aromatics >EC16-EC21	<100 µg/kg	TM173	3930	15100	<100	<100	2050	6920
Aromatics >EC21-EC35	<100 µg/kg	TM173	20200	76500	<100	12100	6030	45700
Aromatics >EC35-EC44	<100 µg/kg	TM173	6650	48800	<100	<100	<100	27700
Aromatics >EC40-EC44	<100 µg/kg	TM173	2480	20700	<100	<100	<100	12000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	34400	155000	<100	12100	8920	89400
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	67300	591000	<100	12200	8920	219000
Aromatics >EC16-EC35	<100 µg/kg	TM173	24100	91600	<100	12100	8080	52600



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1240	IP 1240	IP 1240	IP 1240	IP 1426	IP 1426
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.70	2.00	2.30	2.80	0.50	1.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	24/07/2014	24/07/2014	23/07/2014	23/07/2014
diss.filt	Dissolved / filtered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
tot.unfilt	Total / unfiltered sample.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
*	Subcontracted test.		9686548	9686560	9686564	9686568	9686432	9686438
**	% 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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	68	90	62	53	53	45
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	17300	27200	6360	220	<176	265
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089	<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	32.9
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36	<36	<9	<36	<36
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<96	<96	<24	<96	<96
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	<40	104	101	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089	591	2870	405	41.8	<40	42.7
Aliphatics >C10-C12	<10 µg/kg	TM089	9760	13400	3330	70.1	<40	57.3
Aliphatics >C12-C16	<100 µg/kg	TM173	43100	12800	<100	<100	2260	3720
Aliphatics >C16-C21	<100 µg/kg	TM173	81100	<100	<100	<100	9230	10200
Aliphatics >C21-C35	<100 µg/kg	TM173	39500	<100	<100	<100	50700	44900
Aliphatics >C35-C44	<100 µg/kg	TM173	2770	<100	<100	<100	20100	25100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	166000	12800	<100	<100	82300	84000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	422	1910	279	<40	<40	83
Aromatics >EC10-EC12	<10 µg/kg	TM089	6500	8930	2220	46.3	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173	9830	<100	<100	<100	1590	789
Aromatics >EC16-EC21	<100 µg/kg	TM173	15700	<100	<100	<100	9220	12200
Aromatics >EC21-EC35	<100 µg/kg	TM173	20400	<100	<100	<100	52700	48800
Aromatics >EC35-EC44	<100 µg/kg	TM173	2320	<100	<100	<100	30800	21100
Aromatics >EC40-EC44	<100 µg/kg	TM173	559	<100	<100	<100	13900	7690
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	48200	<100	<100	<100	94300	82800
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	232000	40000	6360	138	177000	167000
Aromatics >EC16-EC35	<100 µg/kg	TM173	36100	<100	<100	<100	62000	60900



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1426	IP 1427	IP 1427	IP 1427	IP 1429	IP 1429
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.50	0.50	1.50	2.50	0.50	1.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		23/07/2014	23/07/2014	23/07/2014	23/07/2014	23/07/2014	23/07/2014
diss.filt	Dissolved / filtered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
tot.unfilt	Total / unfiltered sample.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
*	Subcontracted test.		9686443	9686416	9686422	9686427	9686385	9686389
**	% 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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	47	69	51	53	37	41
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176	<176	<176	<176	<176	262
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089	<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36	<36	<36	<36	<36
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<96	<96	<96	<96	<96
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089	<40	<40	<40	<40	<40	45.2
Aliphatics >C10-C12	<10 µg/kg	TM089	<40	<40	<40	<40	<40	64.5
Aliphatics >C12-C16	<100 µg/kg	TM173	4350	2660	<100	5490	107000	58400
Aliphatics >C16-C21	<100 µg/kg	TM173	10600	28800	5090	8190	213000	28400
Aliphatics >C21-C35	<100 µg/kg	TM173	48400	86800	69900	50100	488000	182000
Aliphatics >C35-C44	<100 µg/kg	TM173	21600	32000	83400	34600	241000	65900
Total Aliphatics >C12-C44	<100 µg/kg	TM173	84900	150000	158000	98400	1050000	335000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	61.4	<40	<40	62.5	<40	63.2
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40	<40	<40	<40	<40	42.6
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	14200	<100	<100	18500	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	3070	177000	2500	1780	66300	4850
Aromatics >EC21-EC35	<100 µg/kg	TM173	26500	606000	95600	28700	452000	83300
Aromatics >EC35-EC44	<100 µg/kg	TM173	17100	207000	69000	21800	302000	54900
Aromatics >EC40-EC44	<100 µg/kg	TM173	6600	74600	27300	8960	125000	20900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	46700	1000000	167000	52300	839000	143000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	132000	1150000	325000	151000	1890000	478000
Aromatics >EC16-EC35	<100 µg/kg	TM173	29600	783000	98100	30500	519000	88100



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1429	IP 1429	IP 1453	IP 1453	IP 1453	IP 1453
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.50	3.50	0.50	1.50	2.50	3.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		23/07/2014	23/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
diss.filt	Dissolved / filtered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
tot.unfilt	Total / unfiltered sample.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
*	Subcontracted test.		9686395	9686403	9686762	9686766	9686771	9686776
**	% 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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	39	56	77	77	95	62
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	17600	1840	158000	8250	267	5360
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089	<8	12.3	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36	<36	<36	<36	<36
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<96	<96	<96	<96	<96
Aliphatics >C5-C6	<10 µg/kg	TM089	46.4	46.6	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	92.9	78.1	1040	223	<40	114
Aliphatics >C8-C10	<10 µg/kg	TM089	1460	195	27600	1170	48.2	756
Aliphatics >C10-C12	<10 µg/kg	TM089	8970	797	66700	3640	90.7	2380
Aliphatics >C12-C16	<100 µg/kg	TM173	2430000	102000	2960000	49000	22200	16900
Aliphatics >C16-C21	<100 µg/kg	TM173	2140000	224000	1250000	20900	7720	5670
Aliphatics >C21-C35	<100 µg/kg	TM173	3590000	611000	462000	3200	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	1230000	228000	84800	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	9390000	1160000	4760000	73200	29900	22500
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	991	175	18400	781	<40	504
Aromatics >EC10-EC12	<10 µg/kg	TM089	5980	532	44500	2420	60.5	1580
Aromatics >EC12-EC16	<100 µg/kg	TM173	434000	12800	192000	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	590000	60900	188000	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	2660000	594000	227000	<100	2640	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	1060000	354000	83200	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	385000	138000	33200	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	4740000	1020000	689000	<100	2640	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	14200000	2190000	5610000	81400	32800	27900
Aromatics >EC16-EC35	<100 µg/kg	TM173	3250000	655000	415000	<100	2640	<100



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1453	IP1477	IP1477	IP1477	IP 1480	IP 1480
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.50	0.50	1.00	2.00	0.50	1.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
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		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
(F)	Trigger breach confirmed		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
1-5&*&@	Sample deviation (see appendix)		9686782	9686732	9686787	9686848	9686833	9686837
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	87	90	122	109	100	68
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	15700	243	3390	896000	529	<176
			M	M	M	M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<5	<100	<20	<20
			M	M	M	M	M	M
Benzene	<10 µg/kg	TM089	<40	<40	<10	<200	<40	<40
			M	M	M	M	M	M
Toluene	<2 µg/kg	TM089	<8	9.04	<2	<40	<8	<8
			M	M	M	M	M	M
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<3	<60	<12	<12
			M	M	M	M	M	M
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<6	<120	<24	<24
			M	M	M	M	M	M
o-Xylene	<3 µg/kg	TM089	<12	<12	<3	<60	<12	<12
			M	M	M	M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<9	<9	<9	<36	<36
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<24	<24	<24	<96	<96
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<40	<10	243	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	860	<40	559	16200	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089	3120	64.4	696	178000	48.2	<40
Aliphatics >C10-C12	<10 µg/kg	TM089	5760	<40	996	349000	251	<40
Aliphatics >C12-C16	<100 µg/kg	TM173	10200	4440	50800	1030000	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	2900	9710	24900	156000	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	21200	46600	31400	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	7010	11900	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	13100	42300	134000	1210000	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	<10	<200	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<10	<200	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	2080	68.9	464	119000	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089	3840	<40	663	233000	167	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	8270	121000	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	2780	10400	30300	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	17200	65600	2160	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	6920	34300	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	2070	12400	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	26900	119000	153000	<100	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	28800	69400	256000	2260000	529	<100
Aromatics >EC16-EC35	<100 µg/kg	TM173	<100	19900	76000	32500	<100	<100



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1480	IP 1480	IP 1481	IP 1481	IP 1481	IP 1523
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.50	3.50	0.50	1.50	2.40	0.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
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		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
(F)	Trigger breach confirmed		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
1-5&*&\$@	Sample deviation (see appendix)		9686844	9686853	9686868	9686875	9686881	9686859
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	89	99	99	88	83	83
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176	221	7900	10900	629	10300
			M	M	M	M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
			M	M	M	M	M	M
Benzene	<10 µg/kg	TM089	<40	<40	633	1100	<40	<40
			M	M	M	M	M	M
Toluene	<2 µg/kg	TM089	<8	<8	<8	33.1	<8	<8
			M	M	M	M	M	M
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
			M	M	M	M	M	M
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<24
			M	M	M	M	M	M
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
			M	M	M	M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36	<36	<36	<36	<36
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<96	633	1130	<96	<96
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<40	505	592	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	<40	<40	1580	2220	111	90.1
Aliphatics >C8-C10	<10 µg/kg	TM089	<40	50	1560	1980	116	1710
Aliphatics >C10-C12	<10 µg/kg	TM089	<40	58.8	1560	2170	158	4360
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	991	<100	6340	102000
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100	<100	<100	2560	67700
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	<100	<100	<100	<100	32400
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	3570
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	<100	991	<100	8910	206000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	633	1100	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40	<40	1040	1320	90.7	1140
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40	<40	1040	1450	105	2910
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	2460	5040	<100	23600
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	<100	<100	<100	10000
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	<100	<100	<100	<100	26200
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	12000
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	4940
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	<100	2460	5040	<100	71800
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	<100	147	11400	15900	9540	288000
Aromatics >EC16-EC35	<100 µg/kg	TM173	<100	<100	<100	<100	<100	36200



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1523	IP 1525	IP 1525	IP 1525	IP 1525	IP 1526
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.50	0.50	1.50	2.50	3.50	0.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
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		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
(F)	Trigger breach confirmed		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
1-5&*&\$@	Sample deviation (see appendix)		9686864	9686793	9686797	9686805	9686811	9686743
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	94	106	90	67	68	74
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	11300	21700	211	676	375	1300
			M	M	M	M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
			M	M	M	M	M	M
Benzene	<10 µg/kg	TM089	299	<40	<40	<40	<40	<40
			M	M	M	M	M	M
Toluene	<2 µg/kg	TM089	<8	<8	<8	<8	<8	<8
			M	M	M	M	M	M
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
			M	M	M	M	M	M
m,p-Xylene	<6 µg/kg	TM089	31.4	<24	<24	<24	<24	<24
			M	M	M	M	M	M
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
			M	M	M	M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<9	<36	<36	<9	<36
sum of detected BTEX by GC	<24 µg/kg	TM089	299	<24	<96	<96	<24	<96
Aliphatics >C5-C6	<10 µg/kg	TM089	79.5	197	<40	45.5	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	355	1180	<40	149	78.1	70.8
Aliphatics >C8-C10	<10 µg/kg	TM089	2300	4910	<40	110	84.7	242
Aliphatics >C10-C12	<10 µg/kg	TM089	4030	7270	63.3	173	69.3	473
Aliphatics >C12-C16	<100 µg/kg	TM173	16500	18400	<100	<100	<100	14100
Aliphatics >C16-C21	<100 µg/kg	TM173	4440	11700	<100	<100	<100	38600
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	8560	<100	<100	<100	53500
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	29600
Total Aliphatics >C12-C44	<100 µg/kg	TM173	20900	38700	<100	<100	<100	136000
Aromatics >EC5-EC7	<10 µg/kg	TM089	299	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	1570	3270	<40	79.9	67.1	167
Aromatics >EC10-EC12	<10 µg/kg	TM089	2690	4850	41.8	115	46.2	316
Aromatics >EC12-EC16	<100 µg/kg	TM173	6360	1120	<100	<100	<100	2340
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	2200	<100	<100	<100	14400
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	5350	<100	<100	<100	63800
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	746	<100	<100	<100	16100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	5740
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	6360	9430	<100	<100	<100	96600
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	38600	69800	134	676	375	234000
Aromatics >EC16-EC35	<100 µg/kg	TM173	<100	7560	<100	<100	<100	78200



SDG: 140725-32
Job: H_ATKINS_LDC-224
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Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
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TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1526	IP 1526	IP 1526	IP1532	IP1532	IP 1557
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.50	2.50	3.50	1.50	2.50	0.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
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		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
(F)	Trigger breach confirmed		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
1-5&*&\$@	Sample deviation (see appendix)		9686748	9686753	9686758	9686490	9686553	9686717
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	85	93	101	114	94	80
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	16300	10700	95600	518000	146000	4240
			M	M	M	♦ M	M	M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<50	<20	<20
			M	M	M	♦ M	M	M
Benzene	<10 µg/kg	TM089	<40	<40	53.1	<100	<40	<40
			M	M	M	♦ M	M	M
Toluene	<2 µg/kg	TM089	<8	<8	<8	<20	<8	<8
			M	M	M	♦ M	M	M
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<30	<12	<12
			M	M	M	♦ M	M	M
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<60	<24	<24
			M	M	M	♦ M	M	M
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<30	<12	<12
			M	M	M	♦ M	M	M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36	<36	<90	<9	<36
						♦		
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<96	<96	<240	<24	<96
						♦		
Aliphatics >C5-C6	<10 µg/kg	TM089	871	811	2220	<100	<40	<40
						♦		
Aliphatics >C6-C8	<10 µg/kg	TM089	5700	3800	19800	3070	1260	156
						♦		
Aliphatics >C8-C10	<10 µg/kg	TM089	4510	2060	23200	99100	29700	847
						♦		
Aliphatics >C10-C12	<10 µg/kg	TM089	1290	1600	20900	210000	57000	1590
						♦		
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	2320	22000	269000	65500	15300
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100	12600	36700	13400	8460
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	2320	34700	306000	78900	23800
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	53.1	<100	<40	<40
						♦		
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<100	<40	<40
						♦		
Aromatics >EC8-EC10	<10 µg/kg	TM089	3010	1370	15500	66000	19800	564
						♦		
Aromatics >EC10-EC12	<10 µg/kg	TM089	858	1070	13900	140000	38000	1060
						♦		
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	<100	5660	9600	2480
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	<100	2620	<100	2860
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	<100	<100	<100	<100	1720
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	<100	<100	8280	9600	7070
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	16300	13100	130000	832000	234000	35100
Aromatics >EC16-EC35	<100 µg/kg	TM173	<100	<100	<100	2620	<100	4590



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1557	IP 1557	IP 1557	IP 1600	IP 1600	IP 1600
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.50	2.50	3.50	0.50	1.50	2.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	24/07/2014	23/07/2014	23/07/2014	23/07/2014
diss.filt	Dissolved / filtered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
tot.unfilt	Total / unfiltered sample.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
*	Subcontracted test.		9686722	9686727	9686739	9686366	9686372	9686376
**	% 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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	125	87	75	118	91	119
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	312000	20100	22600	11900	9070	111000
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089	164	<40	<40	<40	<40	238
Toluene	<2 µg/kg	TM089	<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	17.1	<12
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	18.2	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36	<36	<36	<36	<36
sum of detected BTEX by GC	<24 µg/kg	TM089	164	<96	<96	<96	<96	238
Aliphatics >C5-C6	<10 µg/kg	TM089	8340	522	179	81.1	<40	2900
Aliphatics >C6-C8	<10 µg/kg	TM089	65800	3920	1770	229	85.5	28700
Aliphatics >C8-C10	<10 µg/kg	TM089	74300	4440	4140	659	781	26100
Aliphatics >C10-C12	<10 µg/kg	TM089	68200	4960	8280	6290	4580	21700
Aliphatics >C12-C16	<100 µg/kg	TM173	131000	54600	84300	<100	46000	140000
Aliphatics >C16-C21	<100 µg/kg	TM173	64200	28700	24900	<100	45200	130000
Aliphatics >C21-C35	<100 µg/kg	TM173	20300	12600	10500	<100	29200	177000
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	45600
Total Aliphatics >C12-C44	<100 µg/kg	TM173	215000	95900	120000	<100	120000	493000
Aromatics >EC5-EC7	<10 µg/kg	TM089	164	<40	<40	<40	<40	238
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	49500	2960	2760	440	556	17400
Aromatics >EC10-EC12	<10 µg/kg	TM089	45500	3310	5520	4200	3050	14500
Aromatics >EC12-EC16	<100 µg/kg	TM173	22200	8740	13700	<100	7770	28000
Aromatics >EC16-EC21	<100 µg/kg	TM173	19500	6530	4900	<100	19300	45200
Aromatics >EC21-EC35	<100 µg/kg	TM173	7970	<100	<100	5800	15700	78400
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	28300
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	<100	10500
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	49700	15300	18600	5800	42700	180000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	577000	131000	161000	17700	172000	784000
Aromatics >EC16-EC35	<100 µg/kg	TM173	27400	6530	4900	5800	35000	124000



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP 1600	IP1602	IP1634	IP1634	IP1635	IP1635
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	3.80	1.50	0.50	1.50	0.50	1.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		23/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
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							
(F)	Trigger breach confirmed		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
1-5&*&\$@	Sample deviation (see appendix)		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
			9686380	9686350	9686457	9686462	9686469	9686474
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	153	105	83	126	95	121
			♦		♦	♦	♦	♦
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	162000	1430	240	228000	202	62300
			♦ M	M	♦ M	♦ M	♦ M	♦ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<5	<20	<20	<20	<5
			♦ M	M	♦ M	♦ M	♦ M	♦ M
Benzene	<10 µg/kg	TM089	307	<10	<40	<40	<40	<10
			♦ M	M	♦ M	♦ M	♦ M	♦ M
Toluene	<2 µg/kg	TM089	<8	<2	<8	<8	<8	<2
			♦ M	M	♦ M	♦ M	♦ M	♦ M
Ethylbenzene	<3 µg/kg	TM089	<12	<3	<12	<12	<12	<3
			♦ M	M	♦ M	♦ M	♦ M	♦ M
m,p-Xylene	<6 µg/kg	TM089	<24	<6	<24	<24	<24	<6
			♦ M	M	♦ M	♦ M	♦ M	♦ M
o-Xylene	<3 µg/kg	TM089	<12	<3	<12	<12	<12	<3
			♦ M	M	♦ M	♦ M	♦ M	♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<36	<36	<36	<9
			♦		♦	♦	♦	♦
sum of detected BTEX by GC	<24 µg/kg	TM089	307	<24	<96	<96	<96	<24
			♦		♦	♦	♦	♦
Aliphatics >C5-C6	<10 µg/kg	TM089	5180	20.3	<40	131	<40	40.7
			♦		♦	♦	♦	♦
Aliphatics >C6-C8	<10 µg/kg	TM089	56300	281	<40	10700	<40	1830
			♦		♦	♦	♦	♦
Aliphatics >C8-C10	<10 µg/kg	TM089	36800	332	<40	65600	<40	14000
			♦		♦	♦	♦	♦
Aliphatics >C10-C12	<10 µg/kg	TM089	23200	345	77.7	64500	59.9	22300
			♦		♦	♦	♦	♦
Aliphatics >C12-C16	<100 µg/kg	TM173	88800	2550	<100	821000	<100	195000
Aliphatics >C16-C21	<100 µg/kg	TM173	79200	<100	145000	359000	2820	135000
Aliphatics >C21-C35	<100 µg/kg	TM173	97500	<100	280000	323000	17300	98200
Aliphatics >C35-C44	<100 µg/kg	TM173	23200	<100	67400	81600	4760	556
Total Aliphatics >C12-C44	<100 µg/kg	TM173	289000	2550	492000	1580000	24900	428000
Aromatics >EC5-EC7	<10 µg/kg	TM089	307	<10	<40	<40	<40	<10
			♦		♦	♦	♦	♦
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<10	<40	<40	<40	<10
			♦		♦	♦	♦	♦
Aromatics >EC8-EC10	<10 µg/kg	TM089	24500	221	<40	43700	<40	9330
			♦		♦	♦	♦	♦
Aromatics >EC10-EC12	<10 µg/kg	TM089	15400	229	51.1	43000	<40	14800
			♦		♦	♦	♦	♦
Aromatics >EC12-EC16	<100 µg/kg	TM173	21400	1080	2400	166000	<100	9150
Aromatics >EC16-EC21	<100 µg/kg	TM173	31100	1720	21400	158000	<100	20000
Aromatics >EC21-EC35	<100 µg/kg	TM173	42600	<100	205000	240000	8800	26200
Aromatics >EC35-EC44	<100 µg/kg	TM173	6110	<100	103000	83100	6660	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	42000	33700	3020	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	101000	2810	332000	647000	15500	55400
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	552000	6790	825000	2460000	40600	546000
Aromatics >EC16-EC35	<100 µg/kg	TM173	73700	1720	227000	398000	8800	46200



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	IP1635	TP 1532	TP 1602	TP6104	TP6104	TP6104
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.50	0.50	0.50	0.50	1.50	2.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014	24/07/2014
diss.filt	Dissolved / filtered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
tot.unfilt	Total / unfiltered sample.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
*	Subcontracted test.		9686479	9686297	9686302	9686902	9686912	9686917
**	% 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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	104	84	81	65	54	60
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	35900	<176	1030	301	<176	<176
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20
Benzene	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Toluene	<2 µg/kg	TM089	<8	<8	<8	<8	<8	<8
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<24
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<9	<36	<36	<36	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<24	<96	<96	<96	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	311	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089	6160	<40	173	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089	10800	42.8	207	<40	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089	6830	<40	290	121	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173	4610	20200	5220	91100	20200	14800
Aliphatics >C16-C21	<100 µg/kg	TM173	2620	66200	<100	367000	70900	46100
Aliphatics >C21-C35	<100 µg/kg	TM173	16600	168000	<100	622000	209000	111000
Aliphatics >C35-C44	<100 µg/kg	TM173	945	67100	<100	280000	105000	71600
Total Aliphatics >C12-C44	<100 µg/kg	TM173	24800	322000	5220	1360000	405000	244000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089	7230	<40	148	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089	4560	<40	193	81.2	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	2470	<100	15700	7590	3090
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	28000	<100	177000	56000	17600
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	113000	<100	500000	188000	94700
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	45200	<100	262000	83000	64200
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	16200	<100	114000	31600	28000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	189000	<100	955000	334000	180000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	60700	511000	incomplete	2320000	740000	423000
Aromatics >EC16-EC35	<100 µg/kg	TM173	<100	141000	<100	677000	244000	112000



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample Ref.		TP6104	TP6104	TP6105	TP6105	TP6105	TPE0691
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	3.50 Soil/Solid 24/07/2014 25/07/2014 140725-32 9686922	4.50 Soil/Solid 24/07/2014 25/07/2014 140725-32 9686928	0.50 Soil/Solid 24/07/2014 25/07/2014 140725-32 9686886	1.50 Soil/Solid 24/07/2014 25/07/2014 140725-32 9686892	2.50 Soil/Solid 24/07/2014 25/07/2014 140725-32 9686897	0.50 Soil/Solid 24/07/2014 25/07/2014 140725-32 9686827	
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)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089	62	50	53	70	56	97		
			♦	♦	♦	♦	♦	♦		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	1110	2400	448	4680	<176	5870		M
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<20		M
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M		
Benzene	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40		M
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M		
Toluene	<2 µg/kg	TM089	11.9	10.8	<8	<8	<8	<8		M
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M		
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12		M
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M		
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<24		M
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M		
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<12		M
			♦ M	♦ M	♦ M	♦ M	♦ M	♦ M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36	<36	<36	<36	<36		
			♦	♦	♦	♦	♦	♦		
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<96	<96	<96	<96	<96		<24
			♦	♦	♦	♦	♦	♦		
Aliphatics >C5-C6	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40		62.7
			♦	♦	♦	♦	♦	♦		
Aliphatics >C6-C8	<10 µg/kg	TM089	79.2	101	40.2	<40	<40	<40		1100
			♦	♦	♦	♦	♦	♦		
Aliphatics >C8-C10	<10 µg/kg	TM089	119	215	70.8	194	<40	<40		1930
			♦	♦	♦	♦	♦	♦		
Aliphatics >C10-C12	<10 µg/kg	TM089	459	1130	155	2570	<40	<40		887
			♦	♦	♦	♦	♦	♦		
Aliphatics >C12-C16	<100 µg/kg	TM173	29100	29700	42200	24900	19900	<100		
Aliphatics >C16-C21	<100 µg/kg	TM173	80000	81700	28700	32800	51100	<100		
Aliphatics >C21-C35	<100 µg/kg	TM173	167000	197000	90700	64300	434000	294		
Aliphatics >C35-C44	<100 µg/kg	TM173	71400	74900	40200	21600	115000	<100		
Total Aliphatics >C12-C44	<100 µg/kg	TM173	347000	383000	202000	144000	620000	294		
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40		<40
			♦	♦	♦	♦	♦	♦		
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40		<40
			♦	♦	♦	♦	♦	♦		
Aromatics >EC8-EC10	<10 µg/kg	TM089	97.7	163	61.3	141	<40	<40		1290
			♦	♦	♦	♦	♦	♦		
Aromatics >EC10-EC12	<10 µg/kg	TM089	306	750	104	1710	<40	<40		591
			♦	♦	♦	♦	♦	♦		
Aromatics >EC12-EC16	<100 µg/kg	TM173	6220	7180	6890	12100	12400	325		
Aromatics >EC16-EC21	<100 µg/kg	TM173	26400	30300	18100	26600	47200	217		
Aromatics >EC21-EC35	<100 µg/kg	TM173	139000	166000	152000	98200	699000	1520		
Aromatics >EC35-EC44	<100 µg/kg	TM173	83100	92500	73900	33300	277000	<100		
Aromatics >EC40-EC44	<100 µg/kg	TM173	35500	39200	26100	11000	81400	<100		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	254000	296000	250000	170000	1040000	2060		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	602000	682000	453000	318000	1660000	8210		
Aromatics >EC16-EC35	<100 µg/kg	TM173	165000	196000	170000	125000	746000	1740		



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample Ref.		TPE0691	TPE0691	TPE0695	TPE0696	TPE0696	TPE0725
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.50 Soil/Solid 24/07/2014	2.40 Soil/Solid 24/07/2014	0.50 Soil/Solid 24/07/2014	0.50 Soil/Solid 24/07/2014	1.50 Soil/Solid 24/07/2014	0.50 Soil/Solid 23/07/2014	0.50 Soil/Solid 23/07/2014
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)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089		106	98	77	101	115	117	
				♦			♦	♦	♦	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<44	<176	<176	77000	374000	<176	
				♦ M	M	M	♦ M	♦ M	♦ M	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5	<20	<20	<20	<50	<20	
				♦ M	M	M	♦ M	♦ M	♦ M	
Benzene	<10 µg/kg	TM089		<10	<40	<40	<40	<100	<40	
				♦ M	M	M	♦ M	♦ M	♦ M	
Toluene	<2 µg/kg	TM089		<2	<8	<8	<8	<20	<8	
				♦ M	M	M	♦ M	♦ M	♦ M	
Ethylbenzene	<3 µg/kg	TM089		<3	<12	<12	<12	<30	<12	
				♦ M	M	M	♦ M	♦ M	♦ M	
m,p-Xylene	<6 µg/kg	TM089		<6	<24	<24	<24	<60	<24	
				♦ M	M	M	♦ M	♦ M	♦ M	
o-Xylene	<3 µg/kg	TM089		<3	<12	<12	<12	<30	<12	
				♦ M	M	M	♦ M	♦ M	♦ M	
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<36	<9	<36	<90	<36	
				♦			♦	♦	♦	
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<96	<24	<96	<240	<96	
				♦			♦	♦	♦	
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<40	<40	751	<100	<40	
				♦			♦	♦	♦	
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	<40	<40	8520	3960	<40	
				♦			♦	♦	♦	
Aliphatics >C8-C10	<10 µg/kg	TM089		11.2	<40	53.8	21700	80700	43.9	
				♦			♦	♦	♦	
Aliphatics >C10-C12	<10 µg/kg	TM089		12.3	<40	<40	18900	141000	57.3	
				♦			♦	♦	♦	
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	1620	322000	165000	4960	
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	8830	205000	29700	30800	
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	26700	107000	<100	81900	
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	18300	20200	<100	18300	
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	55500	654000	195000	136000	
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<40	<40	<40	<100	<40	
				♦			♦	♦	♦	
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<40	<40	<40	<100	<40	
				♦			♦	♦	♦	
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	<40	<40	14500	53800	<40	
				♦			♦	♦	♦	
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	<40	<40	12600	94100	<40	
				♦			♦	♦	♦	
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	1070	13500	25800	<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	<100	3150	42200	5840	3260	
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	<100	18700	85300	<100	47900	
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	7180	31800	<100	21700	
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	1950	10800	<100	8720	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	<100	30100	173000	31700	72800	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		<100	<100	85700	903000	600000	209000	
Aromatics >EC16-EC35	<100 µg/kg	TM173		<100	<100	21900	128000	5840	51100	



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	TPE0725	TPE0725	TPE0725	TPE0770	TPE0770	TPE0770
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.50	2.50	3.50	0.50	1.50	2.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		23/07/2014	23/07/2014	23/07/2014	24/07/2014	24/07/2014	24/07/2014
diss.filt	Dissolved / filtered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
tot.unfilt	Total / unfiltered sample.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
*	Subcontracted test.		9686346	9686354	9686359	9686699	9686703	9686707
**	% 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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	75	119	123	88	89	140
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	29500	298000	75400	<176	<176	737000
			M	♦ M	♦ M	M	M	♦ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<100
			M	♦ M	♦ M	M	M	♦ M
Benzene	<10 µg/kg	TM089	<40	255	<40	<40	<40	1550
			M	♦ M	♦ M	M	M	♦ M
Toluene	<2 µg/kg	TM089	40.7	<8	<8	<8	<8	<40
			M	♦ M	♦ M	M	M	♦ M
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<60
			M	♦ M	♦ M	M	M	♦ M
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<120
			M	♦ M	♦ M	M	M	♦ M
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<60
			M	♦ M	♦ M	M	M	♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36	<36	<36	<36	<180
				♦	♦			♦
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	255	<96	<96	<96	1550
				♦	♦			♦
Aliphatics >C5-C6	<10 µg/kg	TM089	405	14600	1750	<40	<40	9770
				♦	♦			♦
Aliphatics >C6-C8	<10 µg/kg	TM089	2960	104000	15500	<40	<40	334000
				♦	♦			♦
Aliphatics >C8-C10	<10 µg/kg	TM089	5920	65500	14100	<40	<40	171000
				♦	♦			♦
Aliphatics >C10-C12	<10 µg/kg	TM089	9740	41600	20800	<40	<40	63800
				♦	♦			♦
Aliphatics >C12-C16	<100 µg/kg	TM173	207000	203000	182000	<100	<100	13300
Aliphatics >C16-C21	<100 µg/kg	TM173	165000	203000	124000	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	56000	59000	69200	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	7020	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	428000	465000	383000	<100	<100	13300
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	255	<40	<40	<40	1550
				♦	♦			♦
Aromatics >EC7-EC8	<10 µg/kg	TM089	40.7	<40	<40	<40	<40	<200
				♦	♦			♦
Aromatics >EC8-EC10	<10 µg/kg	TM089	3950	43700	9400	<40	<40	114000
				♦	♦			♦
Aromatics >EC10-EC12	<10 µg/kg	TM089	6500	27800	13800	<40	<40	42500
				♦	♦			♦
Aromatics >EC12-EC16	<100 µg/kg	TM173	59400	56900	25000	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	54600	80100	31100	<100	1190	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	19100	26200	19300	<100	10200	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	<100	2340	<100	6370	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100	<100	<100	2500	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	133000	163000	77700	<100	17800	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	590000	926000	536000	<100	17800	750000
Aromatics >EC16-EC35	<100 µg/kg	TM173	73700	106000	50400	<100	11400	<100



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	TPE0770	TPE0773	TPE0773	TPE1598	TPE1598	TPE1598
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	3.50	0.50	1.50	0.50	1.50	2.50
M	mCERTS accredited.		Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.		24/07/2014	24/07/2014	24/07/2014	23/07/2014	23/07/2014	23/07/2014
diss.filt	Dissolved / filtered sample.		25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014	25/07/2014
tot.unfilt	Total / unfiltered sample.		140725-32	140725-32	140725-32	140725-32	140725-32	140725-32
*	Subcontracted test.		9686711	9686412	9686449	9686308	9686312	9686319
**	% 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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	114	72	96	97	118	121
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	97600	<176	94100	942	64600	467000
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20	<20	<20	<20	<100
Benzene	<10 µg/kg	TM089	111	<40	<40	<40	<40	596
Toluene	<2 µg/kg	TM089	<8	<8	<8	<8	<8	<40
Ethylbenzene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<60
m,p-Xylene	<6 µg/kg	TM089	<24	<24	<24	<24	<24	<120
o-Xylene	<3 µg/kg	TM089	<12	<12	<12	<12	<12	<60
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36	<36	<36	<36	<180
sum of detected BTEX by GC	<24 µg/kg	TM089	111	<96	<96	<96	<96	596
Aliphatics >C5-C6	<10 µg/kg	TM089	2190	<40	<40	<40	<40	10600
Aliphatics >C6-C8	<10 µg/kg	TM089	35800	<40	1470	<40	5450	109000
Aliphatics >C8-C10	<10 µg/kg	TM089	21600	<40	20300	246	20100	99800
Aliphatics >C10-C12	<10 µg/kg	TM089	14100	<40	35200	298	15300	108000
Aliphatics >C12-C16	<100 µg/kg	TM173	43400	4000	544000	<100	19000	137000
Aliphatics >C16-C21	<100 µg/kg	TM173	3860	17200	147000	<100	5690	24300
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	78700	65400	<100	<100	5640
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	23300	10100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	47300	123000	766000	<100	24700	167000
Aromatics >EC5-EC7	<10 µg/kg	TM089	111	<40	<40	<40	<40	596
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<200
Aromatics >EC8-EC10	<10 µg/kg	TM089	14400	<40	13600	164	13400	66500
Aromatics >EC10-EC12	<10 µg/kg	TM089	9370	<40	23500	199	10200	72100
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	43100	<100	<100	19200
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	5460	37000	<100	<100	7200
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	58300	21200	2100	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	33100	3630	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	13300	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	96900	105000	2100	<100	26400
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	145000	220000	965000	3040	89300	660000
Aromatics >EC16-EC35	<100 µg/kg	TM173	<100	63800	58200	2100	<100	7200



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample Ref.	TPE1598	TPE1598				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
M	mCERTS accredited.		3.50	4.30				
aq	Aqueous / settled sample.		Soil/Solid	Soil/Solid				
diss.filt	Dissolved / filtered sample.		23/07/2014	23/07/2014				
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		25/07/2014	25/07/2014				
(F)	Trigger breach confirmed		140725-32	140725-32				
1-5&*\$@	Sample deviation (see appendix)		9686325	9686330				
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	83	55				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	38600	12700				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20	<20				
Benzene	<10 µg/kg	TM089	<40	<40				
Toluene	<2 µg/kg	TM089	<8	<8				
Ethylbenzene	<3 µg/kg	TM089	<12	<12				
m,p-Xylene	<6 µg/kg	TM089	<24	<24				
o-Xylene	<3 µg/kg	TM089	<12	<12				
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<36	<36				
sum of detected BTEX by GC	<24 µg/kg	TM089	<96	<96				
Aliphatics >C5-C6	<10 µg/kg	TM089	445	177				
Aliphatics >C6-C8	<10 µg/kg	TM089	10700	1630				
Aliphatics >C8-C10	<10 µg/kg	TM089	9490	3010				
Aliphatics >C10-C12	<10 µg/kg	TM089	6970	3540				
Aliphatics >C12-C16	<100 µg/kg	TM173	11000	14000				
Aliphatics >C16-C21	<100 µg/kg	TM173	2180	2740				
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	13200	16700				
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40	<40				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40	<40				
Aromatics >EC8-EC10	<10 µg/kg	TM089	6330	2010				
Aromatics >EC10-EC12	<10 µg/kg	TM089	4650	2360				
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100				
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100				
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	<100				
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	<100				
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	<100				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	<100				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	51900	29500				
Aromatics >EC16-EC35	<100 µg/kg	TM173	<100	<100				



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

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Report Number: 291885
Superseded Report:

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1127 0.30 SOLID 24/07/2014 00:00:00 140725-32 9686600 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1127 0.60 SOLID 24/07/2014 00:00:00 140725-32 9686605 TM048	9/8/14	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1128 0.20 SOLID 24/07/2014 00:00:00 140725-32 9686634 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1128 0.40 SOLID 24/07/2014 00:00:00 140725-32 9686639 TM048	8/8/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1128 0.70 SOLID 24/07/2014 00:00:00 140725-32 9686643 TM048	8/8/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG: 140725-32
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Report Number: 291885
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1129 0.20 SOLID 24/07/2014 00:00:00 140725-32 9686648 TM048	8/8/14	Paul Fenney	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1129 0.40 SOLID 24/07/2014 00:00:00 140725-32 9686656 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1130 0.30 SOLID 24/07/2014 00:00:00 140725-32 9686662 TM048	9/8/14	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1130 0.55 SOLID 24/07/2014 00:00:00 140725-32 9686668 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1130 0.80 SOLID 24/07/2014 00:00:00 140725-32 9686674 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1185 0.20 SOLID 24/07/2014 00:00:00 140725-32 9686683 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1185 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686688 TM048	8/8/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1185 0.80 SOLID 24/07/2014 00:00:00 140725-32 9686695 TM048	8/8/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1186 0.30 SOLID 24/07/2014 00:00:00 140725-32 9686573 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1186 0.80 SOLID 24/07/2014 00:00:00 140725-32 9686580 TM048	9/8/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1186 1.00 SOLID 24/07/2014 00:00:00 140725-32 9686584 TM048	9/8/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1238 0.10 SOLID 23/07/2014 00:00:00 140725-32 9686484 TM048	9/8/14	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1238 0.80 SOLID 23/07/2014 00:00:00 140725-32 9686496 TM048	9/8/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1239 0.20 SOLID 23/07/2014 00:00:00 140725-32 9686513 TM048	8/8/14	Lauren Sargeant	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1239 0.60 SOLID 23/07/2014 00:00:00 140725-32 9686521 TM048	9/8/14	Tomasz Pawlikowski	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1240 0.30 SOLID 24/07/2014 00:00:00 140725-32 9686543 TM048	9/8/14	Tomasz Pawlikowski	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1240 0.70 SOLID 24/07/2014 00:00:00 140725-32 9686548 TM048	9/8/14	Tomasz Pawlikowski	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1426 0.50 SOLID 23/07/2014 00:00:00 140725-32 9686432 TM048	9/8/14	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1427 0.50 SOLID 23/07/2014 00:00:00 140725-32 9686416 TM048	9/8/14	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1429 0.50 SOLID 23/07/2014 00:00:00 140725-32 9686385 TM048	9/8/14	Tomasz Pawlikowski	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1453 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686762 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP1477 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686732 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP1477 1.00 SOLID 24/07/2014 00:00:00 140725-32 9686787 TM048	8/8/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1481 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686868 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1523 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686859 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1525 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686793 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1526 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686743 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1557 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686717 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1600 0.50 SOLID 23/07/2014 00:00:00 140725-32 9686366 TM048	9/8/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP1634 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686457 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP1635 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686469 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP 1532 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686297 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP 1602 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686302 TM048	9/8/14	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP6104 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686902 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TP6105 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686886 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0691 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686827 TM048	9/8/14	Tomasz Pawlikowski	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0695 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686907 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0696 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686614 TM048	8/8/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0725 0.50 SOLID 23/07/2014 00:00:00 140725-32 9686339 TM048	9/8/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0770 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686699 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE0773 0.50 SOLID 24/07/2014 00:00:00 140725-32 9686412 TM048	8/8/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE1598 0.50 SOLID 23/07/2014 00:00:00 140725-32 9686308 TM048	9/8/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1129 0.20 SOLID 24/07/2014 00:00:00 140725-32 9686648 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	0.0012 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1238 0.10 SOLID 23/07/2014 00:00:00 140725-32 9686484 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1239 0.20 SOLID 23/07/2014 00:00:00 140725-32 9686513 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1239 0.60 SOLID 23/07/2014 00:00:00 140725-32 9686521 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1240 0.30 SOLID 24/07/2014 00:00:00 140725-32 9686543 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)



CERTIFICATE OF ANALYSIS

Validated

SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1240 0.70 SOLID 24/07/2014 00:00:00 140725-32 9686548 TM 304	Crocidolite (Trace, Loose fibres in soil.) (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	IP 1429 0.50 SOLID 23/07/2014 00:00:00 140725-32 9686385 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)



SDG:	140725-32	Location:	Coed Darcy	Order Number:	CD0759
Job:	H_ATKINS_LDC-224	Customer:	Atkins Global Ltd	Report Number:	291885
Client Reference:	Site Wide Trial Pitting	Attention:	Jack Lowrie	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
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		
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		

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



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686600	9686605	9686623	9686627	9686634	9686639	9686643	9686648	9686656	9686662
	IP 1127	IP 1127	IP 1127	IP 1127	IP 1128	IP 1128	IP 1128	IP 1129	IP 1129	IP 1130
	0.30	0.60	2.00	3.00	0.20	0.40	0.70	0.20	0.40	0.30
Asbestos ID in Solid Samples	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	11-Aug-2014	11-Aug-2014			11-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014
	Asbestos Quantification - Full							27-Aug-2014		
	EPH CWG (Aliphatic) GC (S)	08-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
EPH CWG (Aromatic) GC (S)	08-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
	GRO by GC-FID (S)	08-Aug-2014	09-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	10-Aug-2014
	Metals in solid samples by OES	07-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	07-Aug-2014	06-Aug-2014	04-Aug-2014	06-Aug-2014	06-Aug-2014
	PAH by GCMS	08-Aug-2014	10-Aug-2014	31-Jul-2014	04-Aug-2014	08-Aug-2014	10-Aug-2014	06-Aug-2014	07-Aug-2014	10-Aug-2014
pH	07-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	07-Aug-2014
	Sample description	02-Aug-2014	02-Aug-2014	28-Jul-2014	28-Jul-2014	02-Aug-2014	31-Jul-2014	31-Jul-2014	31-Jul-2014	31-Jul-2014
	Total Organic Carbon			01-Aug-2014					06-Aug-2014	
	TPH CWG GC (S)	08-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	10-Aug-2014	10-Aug-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686668	9686674	9686683	9686688	9686695	9686573	9686580	9686584	9686590	9686594
	IP 1130	IP 1130	IP 1185	IP 1185	IP 1185	IP 1186	IP 1186	IP 1186	IP 1186	IP 1186
	0.55	0.80	0.20	0.50	0.80	0.30	0.80	1.00	2.00	3.50
Asbestos ID in Solid Samples	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	11-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014		
	EPH CWG (Aliphatic) GC (S)	07-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
	EPH CWG (Aromatic) GC (S)	07-Aug-2014	08-Aug-2014	09-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
GRO by GC-FID (S)	08-Aug-2014	09-Aug-2014	08-Aug-2014	10-Aug-2014	09-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014
	Metals in solid samples by OES	07-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014	04-Aug-2014	07-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014
	PAH by GCMS	11-Aug-2014	10-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014
	pH	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014
Sample description	05-Aug-2014	05-Aug-2014	05-Aug-2014	05-Aug-2014	31-Jul-2014	05-Aug-2014	05-Aug-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014
	Total Organic Carbon			07-Aug-2014					01-Aug-2014	
	TPH CWG GC (S)	08-Aug-2014	09-Aug-2014	09-Aug-2014	10-Aug-2014	09-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686484	9686496	9686503	9686507	9686513	9686521	9686526	9686530	9686536	9686543
	IP 1238	IP 1238	IP 1238	IP 1238	IP 1239	IP 1239	IP 1239	IP 1239	IP 1239	IP 1240
	0.10	0.80	2.50	3.50	0.20	0.60	2.00	3.00	4.00	0.30
Asbestos ID in Solid Samples	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	11-Aug-2014	11-Aug-2014			11-Aug-2014	11-Aug-2014				11-Aug-2014
	Asbestos Quantification - Full	27-Aug-2014			26-Aug-2014	26-Aug-2014				26-Aug-2014
	EPH CWG (Aliphatic) GC (S)	07-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	07-Aug-2014
EPH CWG (Aromatic) GC (S)	07-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	07-Aug-2014
	GRO by GC-FID (S)	11-Aug-2014	11-Aug-2014	09-Aug-2014	10-Aug-2014	09-Aug-2014	11-Aug-2014	08-Aug-2014	09-Aug-2014	08-Aug-2014
	Metals in solid samples by OES	07-Aug-2014	07-Aug-2014	04-Aug-2014	04-Aug-2014	07-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	07-Aug-2014
	PAH by GCMS	07-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014	10-Aug-2014	02-Aug-2014	02-Aug-2014	11-Aug-2014
pH	07-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	07-Aug-2014	07-Aug-2014	05-Aug-2014	06-Aug-2014	05-Aug-2014	06-Aug-2014
	Sample description	05-Aug-2014	05-Aug-2014	30-Jul-2014	30-Jul-2014	05-Aug-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	04-Aug-2014
	Total Organic Carbon					07-Aug-2014				
	TPH CWG GC (S)	11-Aug-2014	11-Aug-2014	09-Aug-2014	10-Aug-2014	09-Aug-2014	11-Aug-2014	08-Aug-2014	09-Aug-2014	08-Aug-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686548	9686560	9686564	9686568	9686432	9686438	9686443	9686416	9686422	9686427
	IP 1240	IP 1240	IP 1240	IP 1240	IP 1426	IP 1426	IP 1426	IP 1427	IP 1427	IP 1427
	0.70	2.00	2.30	2.80	0.50	1.50	2.50	0.50	1.50	2.50
Asbestos ID in Solid Samples	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	11-Aug-2014				11-Aug-2014			11-Aug-2014		
	Asbestos Quantification - Full	27-Aug-2014								
	EPH CWG (Aliphatic) GC (S)	08-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	07-Aug-2014	08-Aug-2014
EPH CWG (Aromatic) GC (S)	08-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	07-Aug-2014	08-Aug-2014	08-Aug-2014
	GRO by GC-FID (S)	09-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	09-Aug-2014	10-Aug-2014
	Metals in solid samples by OES	07-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014	06-Aug-2014	01-Aug-2014	01-Aug-2014	07-Aug-2014	31-Jul-2014
	PAH by GCMS	10-Aug-2014	01-Aug-2014	02-Aug-2014	04-Aug-2014	07-Aug-2014	11-Aug-2014	11-Aug-2014	10-Aug-2014	10-Aug-2014
pH	07-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	05-Aug-2014	05-Aug-2014	07-Aug-2014	05-Aug-2014
	Sample description	05-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	31-Jul-2014	29-Jul-2014	29-Jul-2014	04-Aug-2014	29-Jul-2014
	Total Organic Carbon		01-Aug-2014			07-Aug-2014		07-Aug-2014		
	TPH CWG GC (S)	09-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	10-Aug-2014	10-Aug-2014	09-Aug-2014	10-Aug-2014	10-Aug-2014



CERTIFICATE OF ANALYSIS

Validated

SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686732	9686385	9686389	9686395	9686403	9686762	9686766	9686771	9686776	9686782
	IP1477	IP 1429	IP 1429	IP 1429	IP 1429	IP 1453	IP 1453	IP 1453	IP 1453	IP 1453
	0.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	4.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	11-Aug-2014	11-Aug-2014				11-Aug-2014				
Asbestos Quantification - Full		27-Aug-2014								
EPH CWG (Aliphatic) GC (S)	08-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014
EPH CWG (Aromatic) GC (S)	08-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014
GRO by GC-FID (S)	08-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
Metals in solid samples by OES	07-Aug-2014	07-Aug-2014	04-Aug-2014	31-Jul-2014	01-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014
PAH by GCMS	08-Aug-2014	10-Aug-2014	11-Aug-2014	08-Aug-2014	10-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014	04-Aug-2014	07-Aug-2014
pH	07-Aug-2014	07-Aug-2014	05-Aug-2014	05-Aug-2014	06-Aug-2014	07-Aug-2014	05-Aug-2014	05-Aug-2014	06-Aug-2014	05-Aug-2014
Sample description	02-Aug-2014	05-Aug-2014	29-Jul-2014		29-Jul-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014
Total Organic Carbon		08-Aug-2014		06-Aug-2014		07-Aug-2014				
TPH CWG GC (S)	08-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686787	9686848	9686833	9686837	9686844	9686853	9686868	9686875	9686881	9686859
	IP1477	IP1477	IP 1480	IP 1480	IP 1480	IP 1480	IP 1481	IP 1481	IP 1481	IP 1523
	1.00	2.00	0.50	1.50	2.50	3.50	0.50	1.50	2.40	0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	11-Aug-2014						11-Aug-2014			11-Aug-2014
EPH CWG (Aliphatic) GC (S)	08-Aug-2014	08-Aug-2014	11-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014
EPH CWG (Aromatic) GC (S)	08-Aug-2014	08-Aug-2014	11-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014
GRO by GC-FID (S)	09-Aug-2014	09-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
Metals in solid samples by OES	07-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014	04-Aug-2014	01-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	07-Aug-2014
PAH by GCMS	08-Aug-2014	06-Aug-2014	07-Aug-2014	07-Aug-2014	08-Aug-2014	07-Aug-2014	10-Aug-2014	07-Aug-2014	07-Aug-2014	10-Aug-2014
pH	07-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	07-Aug-2014
Sample description	02-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	30-Jul-2014	29-Jul-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	05-Aug-2014
Total Organic Carbon	06-Aug-2014		01-Aug-2014					01-Aug-2014		
TPH CWG GC (S)	09-Aug-2014	09-Aug-2014	11-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686490	9686864	9686793	9686797	9686805	9686811	9686743	9686748	9686753	9686758
	IP1532	IP 1523	IP 1525	IP 1525	IP 1525	IP 1525	IP 1526	IP 1526	IP 1526	IP 1526
	1.50	1.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			11-Aug-2014				11-Aug-2014			
EPH CWG (Aliphatic) GC (S)	09-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	08-Aug-2014
EPH CWG (Aromatic) GC (S)	09-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	08-Aug-2014
GRO by GC-FID (S)	09-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014
Metals in solid samples by OES	01-Aug-2014	01-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014
PAH by GCMS	06-Aug-2014	07-Aug-2014	07-Aug-2014	02-Aug-2014	02-Aug-2014	02-Aug-2014	10-Aug-2014	08-Aug-2014	08-Aug-2014	10-Aug-2014
pH	06-Aug-2014	06-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014
Sample description	29-Jul-2014	29-Jul-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014
Total Organic Carbon			07-Aug-2014							
TPH CWG GC (S)	09-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	11-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014
Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686553	9686350	9686717	9686722	9686727	9686739	9686366	9686372	9686376	9686380
	IP1532	IP1602	IP 1557	IP 1557	IP 1557	IP 1557	IP 1600	IP 1600	IP 1600	IP 1600
	2.50	1.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.80
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			11-Aug-2014				11-Aug-2014			
EPH CWG (Aliphatic) GC (S)	08-Aug-2014	09-Aug-2014	07-Aug-2014	11-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	11-Aug-2014	11-Aug-2014	08-Aug-2014
EPH CWG (Aromatic) GC (S)	08-Aug-2014	09-Aug-2014	07-Aug-2014	11-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	11-Aug-2014	11-Aug-2014	08-Aug-2014
GRO by GC-FID (S)	08-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014
Metals in solid samples by OES	01-Aug-2014	01-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	31-Jul-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014
PAH by GCMS	06-Aug-2014	04-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014	08-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014
pH	06-Aug-2014	05-Aug-2014	06-Aug-2014	06-Aug-2014	05-Aug-2014	06-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014
Sample description	29-Jul-2014	29-Jul-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014
Total Organic Carbon			07-Aug-2014			01-Aug-2014	07-Aug-2014			
TPH CWG GC (S)	08-Aug-2014	09-Aug-2014	09-Aug-2014	11-Aug-2014	11-Aug-2014	09-Aug-2014	08-Aug-2014	11-Aug-2014	11-Aug-2014	09-Aug-2014



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
Superseded Report:

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686457	9686462	9686469	9686474	9686479	9686902	9686912	9686917	9686297	9686302
	IP1634	IP1634	IP1635	IP1635	IP1635	TP6104	TP6104	TP6104	TP 1532	TP 1602
	0.50	1.50	0.50	1.50	2.50	0.50	1.50	2.50	0.50	0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	11-Aug-2014		11-Aug-2014			11-Aug-2014			11-Aug-2014	11-Aug-2014
EPH CWG (Aliphatic) GC (S)	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
EPH CWG (Aromatic) GC (S)	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
GRO by GC-FID (S)	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	10-Aug-2014	11-Aug-2014	08-Aug-2014	10-Aug-2014
Metals in solid samples by OES	07-Aug-2014	05-Aug-2014	06-Aug-2014	04-Aug-2014	04-Aug-2014	07-Aug-2014	04-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014
PAH by GCMS	10-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	04-Aug-2014	08-Aug-2014	07-Aug-2014	08-Aug-2014	10-Aug-2014
pH	07-Aug-2014	06-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	07-Aug-2014	07-Aug-2014
Sample description	05-Aug-2014	30-Jul-2014	05-Aug-2014	30-Jul-2014	30-Jul-2014	31-Jul-2014	30-Jul-2014	30-Jul-2014	02-Aug-2014	05-Aug-2014
Total Organic Carbon			07-Aug-2014			06-Aug-2014			06-Aug-2014	
TPH CWG GC (S)	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014	10-Aug-2014	11-Aug-2014	08-Aug-2014	10-Aug-2014

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686922	9686928	9686886	9686892	9686897	9686815	9686820	9686827	9686907	9686614
	TP6104	TP6104	TP6105	TP6105	TP6105	TPE0691	TPE0691	TPE0691	TPE0695	TPE0696
	3.50	4.50	0.50	1.50	2.50	2.40	1.50	0.50	0.50	0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			11-Aug-2014					11-Aug-2014	11-Aug-2014	11-Aug-2014
EPH CWG (Aliphatic) GC (S)	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
EPH CWG (Aromatic) GC (S)	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
GRO by GC-FID (S)	10-Aug-2014	10-Aug-2014	10-Aug-2014	09-Aug-2014	10-Aug-2014	08-Aug-2014	09-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014
Metals in solid samples by OES	07-Aug-2014	07-Aug-2014	07-Aug-2014	04-Aug-2014	07-Aug-2014	04-Aug-2014	01-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014
PAH by GCMS	07-Aug-2014	08-Aug-2014	04-Aug-2014	04-Aug-2014	07-Aug-2014	08-Aug-2014	04-Aug-2014	07-Aug-2014	10-Aug-2014	08-Aug-2014
pH	07-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	06-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014
Sample description	30-Jul-2014	30-Jul-2014	31-Jul-2014	30-Jul-2014	30-Jul-2014	30-Jul-2014	29-Jul-2014	05-Aug-2014	02-Aug-2014	02-Aug-2014
Total Organic Carbon										06-Aug-2014
TPH CWG GC (S)	10-Aug-2014	10-Aug-2014	10-Aug-2014	09-Aug-2014	10-Aug-2014	08-Aug-2014	09-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686679	9686339	9686346	9686354	9686359	9686699	9686703	9686707	9686711	9686412
	TPE0696	TPE0725	TPE0725	TPE0725	TPE0725	TPE0770	TPE0770	TPE0770	TPE0770	TPE0773
	1.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	0.50
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples		11-Aug-2014				11-Aug-2014				11-Aug-2014
EPH CWG (Aliphatic) GC (S)	08-Aug-2014	08-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014	07-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014
EPH CWG (Aromatic) GC (S)	08-Aug-2014	08-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014	07-Aug-2014	11-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014
GRO by GC-FID (S)	09-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	10-Aug-2014	09-Aug-2014	10-Aug-2014
Metals in solid samples by OES	01-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014	07-Aug-2014
PAH by GCMS	10-Aug-2014	10-Aug-2014	10-Aug-2014	10-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014	10-Aug-2014
pH	06-Aug-2014	07-Aug-2014	05-Aug-2014	05-Aug-2014	05-Aug-2014	07-Aug-2014	05-Aug-2014	05-Aug-2014	05-Aug-2014	07-Aug-2014
Sample description	29-Jul-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	05-Aug-2014
Total Organic Carbon		07-Aug-2014						01-Aug-2014		
TPH CWG GC (S)	09-Aug-2014	08-Aug-2014	11-Aug-2014	11-Aug-2014	11-Aug-2014	09-Aug-2014	11-Aug-2014	10-Aug-2014	11-Aug-2014	10-Aug-2014

Lab Sample No(s) Customer Sample Ref. AGS Ref. Depth Type	9686449	9686308	9686312	9686319	9686325	9686330
	TPE0773	TPE1598	TPE1598	TPE1598	TPE1598	TPE1598
	1.50	0.50	1.50	2.50	3.50	4.30
	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples		11-Aug-2014				
EPH CWG (Aliphatic) GC (S)	08-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
EPH CWG (Aromatic) GC (S)	08-Aug-2014	08-Aug-2014	11-Aug-2014	08-Aug-2014	08-Aug-2014	08-Aug-2014
GRO by GC-FID (S)	09-Aug-2014	08-Aug-2014	08-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014
Metals in solid samples by OES	01-Aug-2014	07-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014	01-Aug-2014
PAH by GCMS	04-Aug-2014	07-Aug-2014	04-Aug-2014	07-Aug-2014	07-Aug-2014	07-Aug-2014
pH	06-Aug-2014	07-Aug-2014	06-Aug-2014	06-Aug-2014	05-Aug-2014	06-Aug-2014
Sample description	29-Jul-2014	05-Aug-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014	29-Jul-2014
Total Organic Carbon		07-Aug-2014		01-Aug-2014		
TPH CWG GC (S)	09-Aug-2014	08-Aug-2014	11-Aug-2014	09-Aug-2014	09-Aug-2014	09-Aug-2014



SDG: 140725-32
Job: H_ATKINS_LDC-224
Client Reference: Site Wide Trial Pitting

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0759
Report Number: 291885
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 Anthophyllite	-
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.



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date: 20 June 2014
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 140530-49
Your Reference: TP East
Location: Coed Darcy
Report No: 274150

We received 86 samples on Friday May 30, 2014 and 86 of these samples were scheduled for analysis which was completed on Thursday June 19, 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: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9364657	TPE 542		0.30 - 0.00	28/05/2014
9364661	TPE 542		1.30 - 0.00	28/05/2014
9364667	TPE 542		2.30 - 0.00	28/05/2014
9364676	TPE 542		3.50 - 0.00	28/05/2014
9364681	TPE 543		0.30 - 0.00	28/05/2014
9364685	TPE 543		1.30 - 0.00	28/05/2014
9364690	TPE 543		2.50 - 0.00	28/05/2014
9364695	TPE 543		3.30 - 0.00	28/05/2014
9364707	TPE 544		0.30 - 0.00	28/05/2014
9364713	TPE 544		1.30 - 0.00	28/05/2014
9364717	TPE 544		2.30 - 0.00	28/05/2014
9364724	TPE 544		3.30 - 0.00	28/05/2014
9364729	TPE 544		4.30 - 0.00	28/05/2014
9364733	TPE 545		0.30 - 0.00	28/05/2014
9364739	TPE 545		1.30 - 0.00	28/05/2014
9364745	TPE 545		2.30 - 0.00	28/05/2014
9364749	TPE 545		3.30 - 0.00	28/05/2014
9364502	TPE 546		0.20 - 0.00	28/05/2014
9364506	TPE 546		1.20 - 0.00	28/05/2014
9364510	TPE 546		2.40 - 0.00	28/05/2014
9364514	TPE 546		3.40 - 0.00	28/05/2014
9364525	TPE 546		4.80 - 0.00	28/05/2014
9364774	TPE 585		0.30 - 0.00	28/05/2014
9364781	TPE 585		1.30 - 0.00	28/05/2014
9364787	TPE 585		2.30 - 0.00	28/05/2014
9364757	TPE 586		0.30 - 0.00	28/05/2014
9364768	TPE 586		1.50 - 0.00	28/05/2014
9364472	TPE 587		0.40 - 0.00	28/05/2014
9364483	TPE 587		1.50 - 0.00	28/05/2014
9364488	TPE 587		2.50 - 0.00	28/05/2014
9364493	TPE 587		3.50 - 0.00	28/05/2014
9364497	TPE 587		4.80 - 0.00	28/05/2014
9364441	TPE 588		0.30 - 0.00	28/05/2014
9364445	TPE 588		1.40 - 0.00	28/05/2014
9364452	TPE 588		2.30 - 0.00	28/05/2014
9364456	TPE 588		3.50 - 0.00	28/05/2014
9364467	TPE 588		4.80 - 0.00	28/05/2014
9364413	TPE 589		0.30 - 0.00	28/05/2014
9364418	TPE 589		1.20 - 0.00	28/05/2014
9364424	TPE 589		2.30 - 0.00	28/05/2014
9364429	TPE 589		3.30 - 0.00	28/05/2014
9364436	TPE 589		4.50 - 0.00	28/05/2014
9364399	TPE 590		0.20 - 0.00	28/05/2014
9364460	TPE 590		0.90 - 0.00	28/05/2014
9364521	TPE 590		1.80 - 0.00	28/05/2014
9364576	TPE 590		2.80 - 0.00	28/05/2014
9364640	TPE 590		3.80 - 0.00	28/05/2014
9364700	TPE 592		0.20 - 0.00	28/05/2014
9364763	TPE 592		0.80 - 0.00	28/05/2014
9364832	TPE 592		1.80 - 0.00	28/05/2014
9364876	TPE 592		3.00 - 0.00	28/05/2014
9364407	TPE 592		4.00 - 0.00	28/05/2014
9364853	TPE 593		0.30 - 0.00	28/05/2014
9364859	TPE 593		1.20 - 0.00	28/05/2014
9364865	TPE 593		2.50 - 0.00	28/05/2014
9364870	TPE 593		3.60 - 0.00	28/05/2014



CERTIFICATE OF ANALYSIS

SDG:	140530-49	Location:	Coed Darcy	Order Number:	CD0689
Job:	H_ATKINS_LDC-208	Customer:	Atkins Global Ltd	Report Number:	274150
Client Reference:	TP East	Attention:	Jack Lowrie	Superseded Report:	

9364631	TPE 594	0.30 - 0.00	28/05/2014
9364636	TPE 594	1.30 - 0.00	28/05/2014
9364646	TPE 594	2.30 - 0.00	28/05/2014
9364651	TPE 594	3.30 - 0.00	28/05/2014
9364826	TPE 639	0.30 - 0.00	28/05/2014
9364838	TPE 639	1.30 - 0.00	28/05/2014
9364843	TPE 639	2.30 - 0.00	28/05/2014
9364849	TPE 639	3.30 - 0.00	28/05/2014
9364793	TPE 642	0.50 - 0.00	28/05/2014
9364799	TPE 642	1.50 - 0.00	28/05/2014
9364805	TPE 642	2.50 - 0.00	28/05/2014
9364813	TPE 642	3.50 - 0.00	28/05/2014
9364820	TPE 642	4.50 - 0.00	28/05/2014
9364552	TPE 643	0.20 - 0.00	28/05/2014
9364556	TPE 643	1.60 - 0.00	28/05/2014
9364563	TPE 643	2.60 - 0.00	28/05/2014
9364570	TPE 643	3.80 - 0.00	28/05/2014
9364530	TPE 644	0.30 - 0.00	28/05/2014
9364535	TPE 644	1.30 - 0.00	28/05/2014
9364539	TPE 644	2.50 - 0.00	28/05/2014
9364543	TPE 644	3.50 - 0.00	28/05/2014
9364547	TPE 644	4.50 - 0.00	28/05/2014
9364586	TPE 645	0.30 - 0.00	28/05/2014
9364590	TPE 645	1.20 - 0.00	28/05/2014
9364594	TPE 645	2.30 - 0.00	28/05/2014
9364602	TPE 645	3.70 - 0.00	28/05/2014
9364608	TPE 645	4.60 - 0.00	28/05/2014
9364613	TPE 646	0.30 - 0.00	28/05/2014
9364619	TPE 646	1.30 - 0.00	28/05/2014
9364625	TPE 646	2.00 - 0.00	28/05/2014

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



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9364733		TPE 545				0.30 - 0.00		250g Amber Jar (AL)	
	9364729		TPE 544				4.30 - 0.00		60g VOC (ALE215)	
	9364724		TPE 544				3.30 - 0.00		400g Tub (ALE214)	
	9364717		TPE 544				2.30 - 0.00		250g Amber Jar (AL)	
	9364713		TPE 544				1.30 - 0.00		60g VOC (ALE215)	
	9364707		TPE 544				0.30 - 0.00		400g Tub (ALE214)	
	9364695		TPE 543				3.30 - 0.00		250g Amber Jar (AL)	
	9364690		TPE 543				2.50 - 0.00		60g VOC (ALE215)	
	9364685		TPE 543				1.30 - 0.00		400g Tub (ALE214)	
	9364681		TPE 543				0.30 - 0.00		250g Amber Jar (AL)	
	9364676		TPE 542				3.50 - 0.00		60g VOC (ALE215)	
	9364667		TPE 542				2.30 - 0.00		400g Tub (ALE214)	
	9364661		TPE 542				1.30 - 0.00		250g Amber Jar (AL)	
	9364657		TPE 542				0.30 - 0.00		60g VOC (ALE215)	
									400g Tub (ALE214)	
									250g Amber Jar (AL)	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 22								
Asbestos Quantification - Full	All	NDPs: 0 Tests: 9								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 86								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 86								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 86								
Metals in solid samples by OES	All	NDPs: 0 Tests: 86								
PAH by GCMS	All	NDPs: 0 Tests: 86								
pH	All	NDPs: 0 Tests: 86								
Sample description	All	NDPs: 0 Tests: 83								
Total Organic Carbon	All	NDPs: 0 Tests: 20								
TPH CWG GC (S)	All	NDPs: 0 Tests: 86								



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9364733		TPE 545				0.30 - 0.00		400g Tub (ALE214)	
	9364739		TPE 545				1.30 - 0.00		60g VOC (ALE215)	
	9364745		TPE 545				2.30 - 0.00		400g Tub (ALE214)	
	9364749		TPE 545				3.30 - 0.00		250g Amber Jar (AL)	
Asbestos ID in Solid Samples	9364502		TPE 546				0.20 - 0.00		400g Tub (ALE214)	
	9364506		TPE 546				1.20 - 0.00		60g VOC (ALE215)	
Asbestos Quantification - Full	9364510		TPE 546				2.40 - 0.00		250g Amber Jar (AL)	
	9364514		TPE 546				3.40 - 0.00		400g Tub (ALE214)	
EPH CWG (Aliphatic) GC (S)	9364525		TPE 546				4.80 - 0.00		60g VOC (ALE215)	
	9364774		TPE 585				0.30 - 0.00		250g Amber Jar (AL)	
EPH CWG (Aromatic) GC (S)	9364781		TPE 585				1.30 - 0.00		400g Tub (ALE214)	
	9364787		TPE 585				2.30 - 0.00		60g VOC (ALE215)	
GRO by GC-FID (S)	9364768		TPE 586				1.50 - 0.00		400g Tub (ALE214)	
	9364757		TPE 586				0.30 - 0.00		250g Amber Jar (AL)	
Metals in solid samples by OES									60g VOC (ALE215)	
									400g Tub (ALE214)	
PAH by GCMS									250g Amber Jar (AL)	
									400g Tub (ALE214)	
pH									60g VOC (ALE215)	
									250g Amber Jar (AL)	
Sample description									400g Tub (ALE214)	
									60g VOC (ALE215)	
Total Organic Carbon									250g Amber Jar (AL)	
									400g Tub (ALE214)	
TPH CWG GC (S)									60g VOC (ALE215)	
									250g Amber Jar (AL)	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9364424		TPE 589				2.30 - 0.00		60g VOC (ALE215)	
	9364418		TPE 589				1.20 - 0.00		400g Tub (ALE214)	
	9364413		TPE 589				0.30 - 0.00		250g Amber Jar (AL)	
	9364467		TPE 588				4.80 - 0.00		60g VOC (ALE215)	
Asbestos ID in Solid Samples	9364456		TPE 588				3.50 - 0.00		250g Amber Jar (AL)	
	9364452		TPE 588				2.30 - 0.00		60g VOC (ALE215)	
	9364445		TPE 588				1.40 - 0.00		250g Amber Jar (AL)	
	9364441		TPE 588				0.30 - 0.00		60g VOC (ALE215)	
	9364497		TPE 587				4.80 - 0.00		400g Tub (ALE214)	
	9364493		TPE 587				3.50 - 0.00		250g Amber Jar (AL)	
	9364488		TPE 587				2.50 - 0.00		60g VOC (ALE215)	
	9364483		TPE 587				1.50 - 0.00		250g Amber Jar (AL)	
	9364472		TPE 587				0.40 - 0.00		60g VOC (ALE215)	
	9364768		TPE 586				1.50 - 0.00		250g Amber Jar (AL)	
Asbestos Quantification - Full									60g VOC (ALE215)	
EPH CWG (Aliphatic) GC (S)									400g Tub (ALE214)	
EPH CWG (Aromatic) GC (S)									250g Amber Jar (AL)	
GRO by GC-FID (S)									60g VOC (ALE215)	
Metals in solid samples by OES									250g Amber Jar (AL)	
PAH by GCMS									60g VOC (ALE215)	
pH									400g Tub (ALE214)	
Sample description									250g Amber Jar (AL)	
Total Organic Carbon									60g VOC (ALE215)	
TPH CWG GC (S)									250g Amber Jar (AL)	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9364859		TPE 593				1.20 - 0.00		250g Amber Jar (AL)	
	9364853		TPE 593				0.30 - 0.00		60g VOC (ALE215)	
									400g Tub (ALE214)	
									250g Amber Jar (AL)	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 22								
Asbestos Quantification - Full	All	NDPs: 0 Tests: 9								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 86								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 86								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 86								
Metals in solid samples by OES	All	NDPs: 0 Tests: 86								
PAH by GCMS	All	NDPs: 0 Tests: 86								
pH	All	NDPs: 0 Tests: 86								
Sample description	All	NDPs: 0 Tests: 83								
Total Organic Carbon	All	NDPs: 0 Tests: 20								
TPH CWG GC (S)	All	NDPs: 0 Tests: 86								



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

SOLID**Results Legend**

Test



No Determination Possible

SOLID Results Legend	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9364805	TPE 642					2.50 - 0.00		400g Tub (ALE214)	
	9364799	TPE 642					1.50 - 0.00		250g Amber Jar (AL 60g VOC (ALE215))	
	9364793	TPE 642					0.50 - 0.00		400g Tub (ALE214)	
	9364849	TPE 639					3.30 - 0.00		250g Amber Jar (AL 60g VOC (ALE215))	
	9364843	TPE 639					2.30 - 0.00		400g Tub (ALE214)	
	9364838	TPE 639					1.30 - 0.00		250g Amber Jar (AL 60g VOC (ALE215))	
	9364826	TPE 639					0.30 - 0.00		400g Tub (ALE214)	
	9364851	TPE 594					3.30 - 0.00		250g Amber Jar (AL 60g VOC (ALE215))	
	9364846	TPE 594					2.30 - 0.00		400g Tub (ALE214)	
	9364836	TPE 594					1.30 - 0.00		250g Amber Jar (AL 60g VOC (ALE215))	
	9364831	TPE 594					0.30 - 0.00		400g Tub (ALE214)	
	9364870	TPE 593					3.60 - 0.00		250g Amber Jar (AL 60g VOC (ALE215))	
	9364865	TPE 593					2.50 - 0.00		400g Tub (ALE214)	
	9364859	TPE 593					1.20 - 0.00		250g Amber Jar (AL 60g VOC (ALE215))	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 22								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 86								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 86								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 86								
Metals in solid samples by OES	All	NDPs: 0 Tests: 86								
PAH by GCMS	All	NDPs: 0 Tests: 86								
pH	All	NDPs: 0 Tests: 86								
Sample description	All	NDPs: 0 Tests: 83								
Total Organic Carbon	All	NDPs: 0 Tests: 20								
TPH CWG GC (S)	All	NDPs: 0 Tests: 86								



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		Customer Sample Reference		AGS Reference		Depth (m)		Container	
	9364590	TPE 645					1.20 - 0.00		60g VOC (ALE215)	
	9364586	TPE 645					0.30 - 0.00		400g Tub (ALE214)	
	9364547	TPE 644					4.50 - 0.00		250g Amber Jar (AL)	
	9364543	TPE 644					3.50 - 0.00		60g VOC (ALE215)	
	9364539	TPE 644					2.50 - 0.00		250g Amber Jar (AL)	
	9364535	TPE 644					1.30 - 0.00		400g Tub (ALE214)	
	9364530	TPE 644					0.30 - 0.00		250g Amber Jar (AL)	
	9364570	TPE 643					3.80 - 0.00		60g VOC (ALE215)	
	9364563	TPE 643					2.60 - 0.00		400g Tub (ALE214)	
	9364556	TPE 643					1.60 - 0.00		250g Amber Jar (AL)	
	9364552	TPE 643					0.20 - 0.00		60g VOC (ALE215)	
	9364820	TPE 642					4.50 - 0.00		400g Tub (ALE214)	
	9364813	TPE 642					3.50 - 0.00		250g Amber Jar (AL)	
	9364805	TPE 642					2.50 - 0.00		60g VOC (ALE215)	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 22								
Asbestos Quantification - Full	All	NDPs: 0 Tests: 9								
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 86								
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 86								
GRO by GC-FID (S)	All	NDPs: 0 Tests: 86								
Metals in solid samples by OES	All	NDPs: 0 Tests: 86								
PAH by GCMS	All	NDPs: 0 Tests: 86								
pH	All	NDPs: 0 Tests: 86								
Sample description	All	NDPs: 0 Tests: 83								
Total Organic Carbon	All	NDPs: 0 Tests: 20								
TPH CWG GC (S)	All	NDPs: 0 Tests: 86								



SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)		9364594	9364602	9364608	9364613	9364619	9364625
	Customer Sample Reference		TPE 645	TPE 645	TPE 645	TPE 646	TPE 646	TPE 646
	AGS Reference							
	Depth (m)		2.30 - 0.00	3.70 - 0.00	4.60 - 0.00	0.30 - 0.00	1.30 - 0.00	2.00 - 0.00
	Container		60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 22				X		
Asbestos Quantification - Full	All	NDPs: 0 Tests: 9				X		
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 86	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 86	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 86		X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 86	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 86	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 86	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 83	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 20				X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 86	X	X	X	X	X	X



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
9364657	TPE 542	0.30 - 0.00	Black	Loamy Sand	0.1 - 2 mm	Stones	Concrete/Aggregate
9364661	TPE 542	1.30 - 0.00	Black	Sandy Loam	0.1 - 2 mm	Stones	None
9364667	TPE 542	2.30 - 0.00	Black	Sandy Loam	0.1 - 2 mm	N/A	Stones
9364676	TPE 542	3.50 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
9364681	TPE 543	0.30 - 0.00	Black	Clay Loam	0.1 - 2 mm	Stones	Vegetation
9364685	TPE 543	1.30 - 0.00	Black	Sandy Loam	0.1 - 2 mm	N/A	Stones
9364690	TPE 543	2.50 - 0.00	Grey	Sandy Clay Loam	0.1 - 2 mm	Stones	N/A
9364695	TPE 543	3.30 - 0.00	Grey	Sandy Clay Loam	0.1 - 2 mm	N/A	Stones
9364707	TPE 544	0.30 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
9364713	TPE 544	1.30 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
9364717	TPE 544	2.30 - 0.00	Black	Sand	0.063 - 0.1 mm	Stones	Oil/Petroleum
9364724	TPE 544	3.30 - 0.00	Dark Brown	Silt Loam	0.063 - 0.1 mm	None	None
9364729	TPE 544	4.30 - 0.00	Grey	Silt Loam	0.063 - 0.1 mm	Stones	None
9364733	TPE 545	0.30 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
9364739	TPE 545	1.30 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
9364745	TPE 545	2.30 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9364749	TPE 545	3.30 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9364502	TPE 546	0.20 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	N/A
9364506	TPE 546	1.20 - 0.00	Black	Sand	0.1 - 2 mm	Stones	None
9364510	TPE 546	2.40 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9364514	TPE 546	3.40 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9364525	TPE 546	4.80 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Stones
9364774	TPE 585	0.30 - 0.00	Light Brown	Silty Clay Loam	0.063 - 0.1 mm	None	None
9364781	TPE 585	1.30 - 0.00	Dark Brown	Loamy Sand	0.063 - 0.1 mm	N/A	Stones
9364787	TPE 585	2.30 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	N/A	N/A
9364757	TPE 586	0.30 - 0.00	Black	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9364768	TPE 586	1.50 - 0.00	Light Brown	Silt Loam	0.063 - 0.1 mm	Oil/Petroleum	Stones
9364472	TPE 587	0.40 - 0.00	Light Brown	Sandy Silt Loam	0.1 - 2 mm	Brick	Stones
9364483	TPE 587	1.50 - 0.00	Dark Brown	Silt Loam	0.1 - 2 mm	Vegetation	Stones
9364488	TPE 587	2.50 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9364493	TPE 587	3.50 - 0.00	Dark Brown	Sandy Loam	0.063 - 0.1 mm	Stones	Oil/Petroleum
9364497	TPE 587	4.80 - 0.00	Dark Brown	Loamy Sand	0.063 - 0.1 mm	Oil/Petroleum	Stones
9364441	TPE 588	0.30 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
9364445	TPE 588	1.40 - 0.00	Black	Sand	0.063 - 0.1 mm	Vegetation	Stones
9364452	TPE 588	2.30 - 0.00	Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	None
9364456	TPE 588	3.50 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
9364467	TPE 588	4.80 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9364413	TPE 589	0.30 - 0.00	Dark Brown	Clay Loam	0.1 - 2 mm	Stones	Vegetation



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

			Colour	Description	Grain size	Inclusions	Inclusions 2
9364418	TPE 589	1.20 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9364424	TPE 589	2.30 - 0.00	Black	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9364429	TPE 589	3.30 - 0.00	Dark Brown	Silt Loam	0.063 - 0.1 mm	Tar	Oil/Petroleum
9364436	TPE 589	4.50 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9364399	TPE 590	0.20 - 0.00	Dark Brown	Gravel	2 - 10 mm	Stones	None
9364460	TPE 590	0.90 - 0.00	Dark Brown	Gravel	2 - 10 mm	None	None
9364521	TPE 590	1.80 - 0.00	Black	Clinker	0.1 - 2 mm	None	None
9364576	TPE 590	2.80 - 0.00	Black	Sand	0.1 - 2 mm	Stones	None
9364640	TPE 590	3.80 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9364407	TPE 592	4.00 - 0.00	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9364700	TPE 592	0.20 - 0.00	Light Brown	Loamy Sand	0.1 - 2 mm	Brick	Concrete/Aggregate
9364763	TPE 592	0.80 - 0.00	Dark Brown	Gravel	2 - 10 mm	Stones	None
9364832	TPE 592	1.80 - 0.00	Black	Sand	0.1 - 2 mm	Stones	None
9364876	TPE 592	3.00 - 0.00	Black	Sand	0.1 - 2 mm	N/A	None
9364853	TPE 593	0.30 - 0.00	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	None	None
9364859	TPE 593	1.20 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9364865	TPE 593	2.50 - 0.00	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9364870	TPE 593	3.60 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
9364631	TPE 594	0.30 - 0.00	Dark Brown	Clay Loam	0.1 - 2 mm	Brick	Vegetation
9364636	TPE 594	1.30 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Oil/Petroleum	Brick
9364646	TPE 594	2.30 - 0.00	Grey	Silty Clay	0.063 - 0.1 mm	Stones	Vegetation
9364651	TPE 594	3.30 - 0.00	Grey	Sandy Clay Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9364826	TPE 639	0.30 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	N/A
9364838	TPE 639	1.30 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9364843	TPE 639	2.30 - 0.00	Light Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	None
9364849	TPE 639	3.30 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9364793	TPE 642	0.50 - 0.00	Black	Loamy Sand	0.1 - 2 mm	Stones	None
9364799	TPE 642	1.50 - 0.00	Dark Brown	Sand	0.1 - 2 mm	Stones	None
9364805	TPE 642	2.50 - 0.00	Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
9364813	TPE 642	3.50 - 0.00	Dark Brown	Sand	0.1 - 2 mm	Stones	None
9364820	TPE 642	4.50 - 0.00	Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
9364552	TPE 643	0.20 - 0.00	Dark Brown	Clay Loam	0.1 - 2 mm	Stones	Vegetation
9364556	TPE 643	1.60 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9364563	TPE 643	2.60 - 0.00	Black	Sand	0.1 - 2 mm	Stones	None
9364570	TPE 643	3.80 - 0.00	Black	Sand	0.1 - 2 mm	Stones	None
9364530	TPE 644	0.30 - 0.00	Dark Brown	Sandy Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
9364535	TPE 644	1.30 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9364539	TPE 644	2.50 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9364543	TPE 644	3.50 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9364547	TPE 644	4.50 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9364586	TPE 645	0.30 - 0.00	Dark Brown	Sand	0.063 - 0.1 mm	Stones	Vegetation



CERTIFICATE OF ANALYSIS

SDG:	140530-49	Location:	Coed Darcy	Order Number:	CD0689
Job:	H_ATKINS_LDC-208	Customer:	Atkins Global Ltd	Report Number:	274150
Client Reference:	TP East	Attention:	Jack Lowrie	Superseded Report:	

			Colour	Description	Grain size	Inclusions	Inclusions 2
9364590	TPE 645	1.20 - 0.00	Black	Sand	0.1 - 2 mm	Stones	None
9364594	TPE 645	2.30 - 0.00	Black	Sand	0.1 - 2 mm	Stones	None
9364602	TPE 645	3.70 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9364608	TPE 645	4.60 - 0.00	Grey	Silt Loam	0.063 - 0.1 mm	Stones	Oil/Petroleum
9364613	TPE 646	0.30 - 0.00	Black	Sand	0.1 - 2 mm	Brick	Stones
9364619	TPE 646	1.30 - 0.00	Grey	Silt Loam	0.063 - 0.1 mm	Oil/Petroleum	None
9364625	TPE 646	2.00 - 0.00	Grey	Silt Loam	0.063 - 0.1 mm	Oil/Petroleum	None

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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CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

Results Legend		Customer Sample R	TPE 590		TPE 590		TPE 590		TPE 590		TPE 592	
#	ISO17025 accredited.		0.20 - 0.00		0.90 - 0.00		1.80 - 0.00		2.80 - 0.00		3.80 - 0.00	
M	mCERTS accredited.		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014	
diss.filt	Dissolved / filtered sample.		-		-		-		-		-	
tot.unfilt	Total / unfiltered sample.		30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014	
*	Subcontracted test.		140530-49		140530-49		140530-49		140530-49		140530-49	
**	% 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		9364399		9364460		9364521		9364576		9364640	
(F)	Trigger breach confirmed		Lab Sample No.(s)									
1-5&*\$@	Sample deviation (see appendix)		AGS Reference									
Component	LOD/Units	Method										
Moisture Content Ratio	%	PM024	26	32	32	31	10	14				
Soil Organic Matter (SOM)	<0.35 %	TM132	66.2									
pH	1 pH Units	TM133	7.09	7.05	6.23	6.36	7.14	8.96				
Arsenic	<0.6 mg/kg	TM181	33.5	26.6	16.3	15.5	8.76	31.5				
Cadmium	<0.02 mg/kg	TM181	3.62	0.8	0.323	0.46	0.481	1.15				
Chromium	<0.9 mg/kg	TM181	32.3	19.8	25.8	15.6	12.5	37.7				
Copper	<1.4 mg/kg	TM181	161	280	85	188	13.7	267				
Lead	<0.7 mg/kg	TM181	455	74.4	22.3	36.3	11.8	284				
Mercury	<0.14 mg/kg	TM181	0.28	<0.14	<0.14	<0.14	<0.14	0.398				
Nickel	<0.2 mg/kg	TM181	55.2	44.9	54.7	61.3	31.7	47.1				
Selenium	<1 mg/kg	TM181	1.2	<1	<1	<1	<1	<1				
Vanadium	<0.2 mg/kg	TM181	40.6	39.4	62.2	56	12.9	39				
Zinc	<1.9 mg/kg	TM181	409	211	119	131	65.3	568				

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Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

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CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

PAH by GCMS

Results Legend		Customer Sample R	TPE 542		TPE 542		TPE 542		TPE 542		TPE 543		TPE 543	
#	ISO17025 accredited.		TPE 542		TPE 542		TPE 542		TPE 542		TPE 543		TPE 543	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.00		1.30 - 0.00		2.30 - 0.00		3.50 - 0.00		0.30 - 0.00		1.30 - 0.00	
aq	Aqueous / settled sample.		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
diss.filt	Dissolved / filtered sample.		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014	
tot.unfilt	Total / unfiltered sample.		30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014	
*	Subcontracted test.		140530-49		140530-49		140530-49		140530-49		140530-49		140530-49	
**	% 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		9364657		9364661		9364667		9364676		9364681		9364685	
(F)	Trigger breach confirmed													
1-5&*\$@	Sample deviation (see appendix)													
Component	LOD/Units	Method												
Naphthalene-d8 % recovery**	%	TM218	101		100		101		94.9		102		103	
Acenaphthene-d10 % recovery**	%	TM218	105		99.7		103		91.6		104		97.3	
Phenanthrene-d10 % recovery**	%	TM218	99.3		85.5		79.3		87.1		104		77.7	
Chrysene-d12 % recovery**	%	TM218	80.9		53.9		44		81.9		93.7		39.4	
Perylene-d12 % recovery**	%	TM218	77.3		32.4		29.8		74.9		107		19.8	
Naphthalene	<9 µg/kg	TM218	31		98.8		85.6		<9		346		96.9	
			M		M		M		M		M		M	
Acenaphthylene	<12 µg/kg	TM218	<12		53.2		50.8		<12		7060		<12	
			M		M		M		M		M		M	
Acenaphthene	<8 µg/kg	TM218	<8		<8		<8		<8		525		<8	
			M		M		M		M		M		M	
Fluorene	<10 µg/kg	TM218	<10		31.3		25.4		<10		2330		<10	
			M		M		M		M		M		M	
Phenanthrene	<15 µg/kg	TM218	100		250		214		82		24800		163	
			M		M		M		M		M		M	
Anthracene	<16 µg/kg	TM218	<16		44.2		34.7		<16		8290		<16	
			M		M		M		M		M		M	
Fluoranthene	<17 µg/kg	TM218	52.2		166		140		21.3		42500		26.1	
			M		M		M		M		M		M	
Pyrene	<15 µg/kg	TM218	48.9		141		103		23.5		29900		<15	
			M		M		M		M		M		M	
Benz(a)anthracene	<14 µg/kg	TM218	24.7		55.1		50.6		<14		19200		<14	
			M		M		M		M		M		M	
Chrysene	<10 µg/kg	TM218	49.4		99.3		65.1		44.4		15900		<10	
			M		M		M		M		M		M	
Benzo(b)fluoranthene	<15 µg/kg	TM218	59.1		84.5		63.2		22.2		23800		<15	
			M		M		M		M		M		M	
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14		26		<14		<14		7550		<14	
			M		M		M		M		M		M	
Benzo(a)pyrene	<15 µg/kg	TM218	22.5		30.3		34.9		<15		17600		<15	
			M		M		M		M		M		M	
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	<18		<18		<18		<18		9800		<18	
			M		M		M		M		M		M	
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23		<23		<23		<23		3210		<23	
			M		M		M		M		M		M	
Benzo(g,h,i)perylene	<24 µg/kg	TM218	<24		<24		<24		<24		10400		<24	
			M		M		M		M		M		M	
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	388		1080		868		193		223000		286	

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Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
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[illegible]



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

PAH by GCMS

Results Legend		Customer Sample R	TPE 645		TPE 645		TPE 645		TPE 645		TPE 645		TPE 646		
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.00 Soil/Solid 28/05/2014		1.20 - 0.00 Soil/Solid 28/05/2014		2.30 - 0.00 Soil/Solid 28/05/2014		3.70 - 0.00 Soil/Solid 28/05/2014		4.60 - 0.00 Soil/Solid 28/05/2014		0.30 - 0.00 Soil/Solid 28/05/2014	
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)														
Component	LOD/Units	Method													
Naphthalene-d8 % recovery**	%	TM218	102		116		104		94.7		95.1		110		
Acenaphthene-d10 % recovery**	%	TM218	96.7		111		106		105		106		108		
Phenanthrene-d10 % recovery**	%	TM218	95		98.1		89		92.7		92.5		97.6		
Chrysene-d12 % recovery**	%	TM218	95		71.8		73.5		99.2		99.6		76.7		
Perylene-d12 % recovery**	%	TM218	97.6		52		64		96.6		108		69.5		
Naphthalene	<9 µg/kg	TM218	238		55.5		91.2		13000		42700		391		
Acenaphthylene	<12 µg/kg	TM218	4390		55.4		183		<24		<24		38.1		
Acenaphthene	<8 µg/kg	TM218	566		<8		28.3		3330		5090		26.5		
Fluorene	<10 µg/kg	TM218	2310		16.8		93.2		9660		15800		49.6		
Phenanthrene	<15 µg/kg	TM218	38200		320		1580		62400		80100		743		
Anthracene	<16 µg/kg	TM218	8330		48		340		7280		7890		82		
Fluoranthene	<17 µg/kg	TM218	77100		302		2270		19700		9500		414		
Pyrene	<15 µg/kg	TM218	42900		227		1580		20800		15700		467		
Benz(a)anthracene	<14 µg/kg	TM218	41700		177		1360		10900		6850		196		
Chrysene	<10 µg/kg	TM218	46000		279		2030		17100		12500		313		
Benzo(b)fluoranthene	<15 µg/kg	TM218	57800		233		1210		8450		5940		444		
Benzo(k)fluoranthene	<14 µg/kg	TM218	16500		66.4		441		2920		1620		119		
Benzo(a)pyrene	<15 µg/kg	TM218	28900		98.9		633		5480		3260		167		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	17600		48.1		353		2430		1340		162		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	8240		<23		228		1210		837		69.6		
Benzo(g,h,i)perylene	<24 µg/kg	TM218	16700		54.6		343		2330		1590		246		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	408000		1980		12800		187000		211000		3930		

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SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 542		TPE 542		TPE 542		TPE 542		TPE 543		TPE 543	
#	ISO17025 accredited.		TPE 542		TPE 542		TPE 542		TPE 542		TPE 543		TPE 543	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.00 Soil/Solid 28/05/2014		1.30 - 0.00 Soil/Solid 28/05/2014		2.30 - 0.00 Soil/Solid 28/05/2014		3.50 - 0.00 Soil/Solid 28/05/2014		0.30 - 0.00 Soil/Solid 28/05/2014		1.30 - 0.00 Soil/Solid 28/05/2014	
aq	Aqueous / settled sample.		30/05/2014 140530-49 9364657		30/05/2014 140530-49 9364661		30/05/2014 140530-49 9364667		30/05/2014 140530-49 9364676		30/05/2014 140530-49 9364681		30/05/2014 140530-49 9364685	
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)													
Component	LOD/Units	Method	TPE 542		TPE 542		TPE 542		TPE 542		TPE 543		TPE 543	
GRO Surrogate % recovery**	%	TM089	108		4		2		10		99		2	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	1800		824		150		<44		20000		70.5	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<100		<5		<5		<5		<100		<5	
Benzene	<10 µg/kg	TM089	<200		18.1		<10		<10		<200		24	
Toluene	<2 µg/kg	TM089	<40		6.45		<2		<2		<40		7.05	
Ethylbenzene	<3 µg/kg	TM089	<60		<3		<3		<3		<60		<3	
m,p-Xylene	<6 µg/kg	TM089	<120		<6		<6		<6		<120		<6	
o-Xylene	<3 µg/kg	TM089	<60		<3		<3		<3		<60		<3	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9		<9		<9		<9		<9		<9	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24		24.6		<24		<24		<24		31.1	
Aliphatics >C5-C6	<10 µg/kg	TM089	<200		54.2		36.8		<10		529		<10	
Aliphatics >C6-C8	<10 µg/kg	TM089	218		137		63.5		<10		908		19.7	
Aliphatics >C8-C10	<10 µg/kg	TM089	255		163		16.5		<10		996		<10	
Aliphatics >C10-C12	<10 µg/kg	TM089	554		201		10.2		<10		10100		<10	
Aliphatics >C12-C16	<100 µg/kg	TM173	361000		5080		3140		<100		13300		<100	
Aliphatics >C16-C21	<100 µg/kg	TM173	51100		5500		5200		<100		19600		<100	
Aliphatics >C21-C35	<100 µg/kg	TM173	87400		15400		21700		<100		76100		<100	
Aliphatics >C35-C44	<100 µg/kg	TM173	34000		5840		8220		<100		69400		<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	534000		31800		38200		<100		178000		<100	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<200		18.1		<10		<10		<200		24	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<200		<10		<10		<10		<200		<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089	207		112		14		<10		760		<10	
Aromatics >EC10-EC12	<10 µg/kg	TM089	369		134		<10		<10		6730		<10	
Aromatics >EC12-EC16	<100 µg/kg	TM173	88800		1020		<100		<100		9300		<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	144000		551		<100		<100		73400		<100	
Aromatics >EC21-EC35	<100 µg/kg	TM173	411000		2840		7280		<100		290000		<100	
Aromatics >EC35-EC44	<100 µg/kg	TM173	151000		5860		10000		<100		187000		<100	
Aromatics >EC40-EC44	<100 µg/kg	TM173	55900		2250		4340		<100		76200		<100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	795000		10300		17300		<100		559000		<100	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1330000		42900		55700		<100		758000		<100	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 543		TPE 543		TPE 544		TPE 544		TPE 544		TPE 544	
#	ISO17025 accredited.		2.50 - 0.00		3.30 - 0.00		0.30 - 0.00		1.30 - 0.00		2.30 - 0.00		3.30 - 0.00	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014	
diss.filt	Dissolved / filtered 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	30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014	
tot.unfilt	Total / unfiltered sample.		140530-49		140530-49		140530-49		140530-49		140530-49		140530-49	
*	Subcontracted test.	Trigger breach confirmed	9364690		9364695		9364707		9364713		9364717		9364724	
**	% 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)												
1-5&*\$@	Sample deviation (see appendix)													
Component	LOD/Units	Method												
GRO Surrogate % recovery**	%	TM089	49		108		82		56		68		84	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<44		<880		8290		20000		<880		785	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5		<100		<20		<5		<100		<5	
Benzene	<10 µg/kg	TM089	<10		<200		<40		<10		<200		<10	
Toluene	<2 µg/kg	TM089	<2		<40		23		<2		<40		<2	
Ethylbenzene	<3 µg/kg	TM089	<3		<60		<12		<3		<60		<3	
m,p-Xylene	<6 µg/kg	TM089	<6		<120		<24		<6		<120		<6	
o-Xylene	<3 µg/kg	TM089	<3		<60		29		<3		<60		<3	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9		<9		29		<9		<9		<9	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24		<24		52		<24		<24		<24	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10		<200		<40		48.8		<200		25.3	
Aliphatics >C6-C8	<10 µg/kg	TM089	<10		<200		117		715		<200		152	
Aliphatics >C8-C10	<10 µg/kg	TM089	<10		<200		1320		3510		<200		262	
Aliphatics >C10-C12	<10 µg/kg	TM089	<10		<200		3540		8040		<200		102	
Aliphatics >C12-C16	<100 µg/kg	TM173	<100		<100		55200		136000		69800		<100	
Aliphatics >C16-C21	<100 µg/kg	TM173	<100		<100		26700		126000		22200		<100	
Aliphatics >C21-C35	<100 µg/kg	TM173	<100		<100		86500		58400		28900		<100	
Aliphatics >C35-C44	<100 µg/kg	TM173	<100		<100		26300		14600		8780		<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100		<100		195000		335000		130000		<100	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10		<200		<40		<10		<200		<10	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10		<200		<40		<10		<200		<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10		<200		917		2340		<200		174	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10		<200		2360		5360		<200		69.2	
Aromatics >EC12-EC16	<100 µg/kg	TM173	165		<100		14800		44100		15100		<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100		<100		29900		40900		16600		<100	
Aromatics >EC21-EC35	<100 µg/kg	TM173	5740		6440		129000		62000		35400		<100	
Aromatics >EC35-EC44	<100 µg/kg	TM173	1980		1920		66800		30000		21100		<100	
Aromatics >EC40-EC44	<100 µg/kg	TM173	1240		930		28500		12900		8200		<100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	7890		8350		240000		177000		88200		<100	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	7890		8360		443000		532000		218000		785	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 544		TPE 545		TPE 545		TPE 545		TPE 545		TPE 546	
#	ISO17025 accredited.		Depth (m)		Sample Type		Date Sampled		Sample Time		Date Received		SDG Ref	
M	mCERTS accredited.		4.30 - 0.00		Soil/Solid		28/05/2014		30/05/2014		140530-49		140530-49	
aq	Aqueous / settled sample.		0.30 - 0.00		Soil/Solid		28/05/2014		30/05/2014		140530-49		140530-49	
diss.filt	Dissolved / filtered sample.		1.30 - 0.00		Soil/Solid		28/05/2014		30/05/2014		140530-49		140530-49	
tot.unfilt	Total / unfiltered sample.		2.30 - 0.00		Soil/Solid		28/05/2014		30/05/2014		140530-49		140530-49	
*	Subcontracted test.		3.30 - 0.00		Soil/Solid		28/05/2014		30/05/2014		140530-49		140530-49	
**	% 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		0.20 - 0.00		Soil/Solid		28/05/2014		30/05/2014		140530-49		140530-49	
(F)	Trigger breach confirmed		30/05/2014		140530-49		140530-49		140530-49		140530-49		140530-49	
1-5&*\$@	Sample deviation (see appendix)		9364729		9364733		9364739		9364745		9364749		9364502	
Component		LOD/Units	Method											
GRO Surrogate % recovery**		%	TM089		81		80		80		27		21	
GRO TOT (Moisture Corrected)		<44 µg/kg	TM089		17700		22000		3970		2280		1720	
Methyl tertiary butyl ether (MTBE)		<5 µg/kg	TM089		<100		<20		<100		<5		<5	
Benzene		<10 µg/kg	TM089		<200		<40		<200		<10		<10	
Toluene		<2 µg/kg	TM089		<40		9.6		67.3		36.3		28.8	
Ethylbenzene		<3 µg/kg	TM089		<60		<12		<60		8.47		3.6	
m,p-Xylene		<6 µg/kg	TM089		<120		<24		<120		<6		7.2	
o-Xylene		<3 µg/kg	TM089		<60		<12		<60		<3		<3	
sum of detected mpo xylene by GC		<9 µg/kg	TM089		<9		<9		<9		<9		<9	
sum of detected BTEX by GC		<24 µg/kg	TM089		<24		<24		67.3		44.8		32.4	
Aliphatics >C5-C6		<10 µg/kg	TM089		<200		<40		<200		21.8		33.6	
Aliphatics >C6-C8		<10 µg/kg	TM089		3580		259		<200		85.9		90	
Aliphatics >C8-C10		<10 µg/kg	TM089		6640		3920		893		346		208	
Aliphatics >C10-C12		<10 µg/kg	TM089		1670		9090		1310		928		722	
Aliphatics >C12-C16		<100 µg/kg	TM173		<100		229000		109000		53700		79200	
Aliphatics >C16-C21		<100 µg/kg	TM173		16200		44100		98100		52900		89700	
Aliphatics >C21-C35		<100 µg/kg	TM173		1250		95400		253000		155000		216000	
Aliphatics >C35-C44		<100 µg/kg	TM173		<100		37700		82600		59100		65900	
Total Aliphatics >C12-C44		<100 µg/kg	TM173		17500		406000		542000		320000		451000	
Aromatics >EC5-EC7		<10 µg/kg	TM089		<200		<40		<200		<10		<10	
Aromatics >EC7-EC8		<10 µg/kg	TM089		<200		<40		<200		36.3		28.8	
Aromatics >EC8-EC10		<10 µg/kg	TM089		4430		2610		596		242		150	
Aromatics >EC10-EC12		<10 µg/kg	TM089		1110		6060		870		618		481	
Aromatics >EC12-EC16		<100 µg/kg	TM173		<100		33700		19200		9370		13300	
Aromatics >EC16-EC21		<100 µg/kg	TM173		<100		38300		67300		38600		55400	
Aromatics >EC21-EC35		<100 µg/kg	TM173		4220		141000		339000		207000		301000	
Aromatics >EC35-EC44		<100 µg/kg	TM173		1920		81200		192000		113000		142000	
Aromatics >EC40-EC44		<100 µg/kg	TM173		124		33800		86100		48600		61600	
Total Aromatics >EC12-EC44		<100 µg/kg	TM173		6140		294000		618000		368000		512000	
Total Aliphatics & Aromatics >C5-C44		<100 µg/kg	TM173		41200		722000		1160000		690000		965000	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 546		TPE 546		TPE 546		TPE 546		TPE 585		TPE 585	
#	ISO17025 accredited.		1.20 - 0.00		2.40 - 0.00		3.40 - 0.00		4.80 - 0.00		0.30 - 0.00		1.30 - 0.00	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014	
diss.filt	Dissolved / filtered 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	30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014	
tot.unfilt	Total / unfiltered sample.		140530-49		140530-49		140530-49		140530-49		140530-49		140530-49	
*	Subcontracted test.	Trigger breach confirmed	9364506		9364510		9364514		9364525		9364774		9364781	
**	% 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)												
1-5&*\$@	Sample deviation (see appendix)													
Component	LOD/Units	Method												
GRO Surrogate % recovery**	%	TM089	90		95		68		95		78		96	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<880		11100		<44		<880		3340		16600	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<100		<5		<5		<100		<100		<100	
Benzene	<10 µg/kg	TM089	<200		<10		<10		<200		<200		<200	
Toluene	<2 µg/kg	TM089	<40		<2		<2		<40		<40		<40	
Ethylbenzene	<3 µg/kg	TM089	<60		<3		<3		<60		<60		<60	
m,p-Xylene	<6 µg/kg	TM089	<120		<6		<6		<120		<120		<120	
o-Xylene	<3 µg/kg	TM089	<60		<3		<3		<60		<60		<60	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9		<9		<9		<9		<9		<9	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24		<24		<24		<24		<24		<24	
Aliphatics >C5-C6	<10 µg/kg	TM089	<200		<10		<10		<200		<200		522	
Aliphatics >C6-C8	<10 µg/kg	TM089	<200		149		<10		<200		432		848	
Aliphatics >C8-C10	<10 µg/kg	TM089	<200		4280		<10		<200		745		1800	
Aliphatics >C10-C12	<10 µg/kg	TM089	<200		2290		<10		<200		864		7260	
Aliphatics >C12-C16	<100 µg/kg	TM173	<100		<100		10100		<100		418000		2910	
Aliphatics >C16-C21	<100 µg/kg	TM173	1020		<100		5430		<100		485000		3000	
Aliphatics >C21-C35	<100 µg/kg	TM173	9450		<100		6110		<100		913000		12400	
Aliphatics >C35-C44	<100 µg/kg	TM173	1920		<100		1790		<100		280000		4540	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	12400		<100		23400		<100		2100000		22900	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<200		<10		<10		<200		<200		<200	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<200		<10		<10		<200		<200		<200	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<200		2850		<10		<200		585		1310	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<200		1530		<10		<200		576		4840	
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100		<100		5610		<100		440000		1840	
Aromatics >EC16-EC21	<100 µg/kg	TM173	1710		<100		<100		<100		953000		<100	
Aromatics >EC21-EC35	<100 µg/kg	TM173	11300		1120		29000		<100		2480000		28100	
Aromatics >EC35-EC44	<100 µg/kg	TM173	6400		8160		9820		<100		631000		15700	
Aromatics >EC40-EC44	<100 µg/kg	TM173	2640		815		3810		<100		214000		6780	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	19400		9290		44400		<100		4500000		45700	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	31800		20400		67900		<100		6600000		85200	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 585		TPE 586		TPE 586		TPE 587		TPE 587		TPE 587	
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.30 - 0.00	0.30 - 0.00	1.50 - 0.00	0.40 - 0.00	1.50 - 0.00	2.50 - 0.00					
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid					
aq	Aqueous / settled sample.			28/05/2014	28/05/2014	28/05/2014	28/05/2014	28/05/2014	28/05/2014					
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													
(F)	Trigger breach confirmed													
1-5&*\$@	Sample deviation (see appendix)													
Component	LOD/Units	Method	TPE 585		TPE 586		TPE 586		TPE 587		TPE 587		TPE 587	
GRO Surrogate % recovery**	%	TM089	87		77		130		89		39		70	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	3950		<880		6040000		3950		27900		8190	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5		<100		51000		<20		<5		<100	
Benzene	<10 µg/kg	TM089	<10		<200		3730		<40		<10		<200	
Toluene	<2 µg/kg	TM089	<2		<40		<40		<8		<2		57.6	
Ethylbenzene	<3 µg/kg	TM089	<3		<60		<60		<12		<3		<60	
m,p-Xylene	<6 µg/kg	TM089	<6		<120		<120		<24		<6		<120	
o-Xylene	<3 µg/kg	TM089	<3		<60		<60		15.3		<3		<60	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9		<9		<9		15.3		<9		<9	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24		<24		3730		<24		<24		57.6	
Aliphatics >C5-C6	<10 µg/kg	TM089	55		<200		129000		<40		11.8		<200	
Aliphatics >C6-C8	<10 µg/kg	TM089	536		<200		1360000		49.6		203		386	
Aliphatics >C8-C10	<10 µg/kg	TM089	840		<200		1390000		522		4340		1050	
Aliphatics >C10-C12	<10 µg/kg	TM089	1180		<200		1220000		1800		12300		3510	
Aliphatics >C12-C16	<100 µg/kg	TM173	<100		13200		6180000		275000		294000		27000	
Aliphatics >C16-C21	<100 µg/kg	TM173	<100		43600		1940000		44300		32600		36000	
Aliphatics >C21-C35	<100 µg/kg	TM173	<100		146000		2850000		85500		66000		160000	
Aliphatics >C35-C44	<100 µg/kg	TM173	<100		162000		731000		29700		14500		60100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100		364000		11700000		435000		407000		283000	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10		<200		3730		<40		<10		<200	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10		<200		<200		<40		<10		<200	
Aromatics >EC8-EC10	<10 µg/kg	TM089	561		<200		930000		369		2890		740	
Aromatics >EC10-EC12	<10 µg/kg	TM089	783		<200		814000		1200		8170		2340	
Aromatics >EC12-EC16	<100 µg/kg	TM173	2290		10900		5670000		42100		44900		7550	
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100		33700		3780000		37600		32700		36600	
Aromatics >EC21-EC35	<100 µg/kg	TM173	6110		269000		4470000		158000		162000		394000	
Aromatics >EC35-EC44	<100 µg/kg	TM173	1360		137000		562000		100000		101000		190000	
Aromatics >EC40-EC44	<100 µg/kg	TM173	675		48900		134000		42000		43000		72800	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	9760		451000		14500000		337000		340000		628000	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	13700		815000		32000000		776000		775000		919000	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 587		TPE 587		TPE 588		TPE 588		TPE 588		TPE 588	
#	ISO17025 accredited.		3.50 - 0.00		4.80 - 0.00		0.30 - 0.00		1.40 - 0.00		2.30 - 0.00		3.50 - 0.00	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014	
diss.filt	Dissolved / filtered sample.		30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014	
tot.unfilt	Total / unfiltered sample.		140530-49		140530-49		140530-49		140530-49		140530-49		140530-49	
*	Subcontracted test.		9364493		9364497		9364441		9364445		9364452		9364456	
**	% 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)													
Component	LOD/Units	Method												
GRO Surrogate % recovery**	%	TM089	89		75		95		22		11		83	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	97800		73700		11700		710		54200		22400	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<25		<5		<20		<5		<5		<100	
Benzene	<10 µg/kg	TM089	<50		56.6		<40		<10		<10		<200	
Toluene	<2 µg/kg	TM089	<10		<2		<8		6		<2		<40	
Ethylbenzene	<3 µg/kg	TM089	<15		<3		16		<3		<3		<60	
m,p-Xylene	<6 µg/kg	TM089	<30		<6		<24		<6		<6		<120	
o-Xylene	<3 µg/kg	TM089	<15		<3		49		4.8		<3		<60	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9		<9		49		<9		<9		<9	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24		56.6		65		<24		<24		<24	
Aliphatics >C5-C6	<10 µg/kg	TM089	62.6		1060		<40		14.4		<10		<200	
Aliphatics >C6-C8	<10 µg/kg	TM089	12100		13400		47.9		38.4		72		473	
Aliphatics >C8-C10	<10 µg/kg	TM089	24700		17000		1710		81.6		7700		2530	
Aliphatics >C10-C12	<10 µg/kg	TM089	26600		18500		5240		301		24800		10500	
Aliphatics >C12-C16	<100 µg/kg	TM173	2180000		838000		134000		12800		3510000		139000	
Aliphatics >C16-C21	<100 µg/kg	TM173	1030000		543000		34300		53100		1260000		105000	
Aliphatics >C21-C35	<100 µg/kg	TM173	708000		439000		100000		243000		3910000		389000	
Aliphatics >C35-C44	<100 µg/kg	TM173	161000		114000		38100		127000		631000		69400	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	4080000		1930000		307000		436000		9310000		702000	
Aromatics >EC5-EC7	<10 µg/kg	TM089	55.7		56.6		<40		<10		<10		<200	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<50		<10		<40		<10		<10		<200	
Aromatics >EC8-EC10	<10 µg/kg	TM089	16400		11400		1200		66		5130		1750	
Aromatics >EC10-EC12	<10 µg/kg	TM089	17800		12300		3490		202		16500		7010	
Aromatics >EC12-EC16	<100 µg/kg	TM173	3480000		446000		9940		16400		1990000		64100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	2430000		747000		26900		142000		1870000		621000	
Aromatics >EC21-EC35	<100 µg/kg	TM173	2520000		1190000		141000		885000		10600000		643	
Aromatics >EC35-EC44	<100 µg/kg	TM173	518000		260000		89200		416000		2410000		142000	
Aromatics >EC40-EC44	<100 µg/kg	TM173	169000		81600		37400		148000		605000		<100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	8950000		2650000		267000		1460000		16900000		828000	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	13100000		4650000		585000		1900000		26200000		1550000	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R						
#	ISO17025 accredited.		TPE 588		TPE 589		TPE 589	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	4.80 - 0.00		0.30 - 0.00		1.20 - 0.00	
aq	Aqueous / settled sample.		Soil/Solid		Soil/Solid		Soil/Solid	
diss.filt	Dissolved / filtered sample.		28/05/2014		28/05/2014		28/05/2014	
tot.unfilt	Total / unfiltered sample.		30/05/2014		30/05/2014		30/05/2014	
*	Subcontracted test.		140530-49		140530-49		140530-49	
**	% 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		9364467		9364413		9364424	
(F)	Trigger breach confirmed							
1-5&*\$@	Sample deviation (see appendix)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	49	90	72	103	75	72
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	30300	22800	25400	<880	16700	30900
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	<5	<5	<100	<5	<5
Benzene	<10 µg/kg	TM089	<10	<10	<10	<200	<10	<10
Toluene	<2 µg/kg	TM089	<2	<2	4.64	<40	<2	<2
Ethylbenzene	<3 µg/kg	TM089	<3	<3	<3	<60	<3	36.3
m,p-Xylene	<6 µg/kg	TM089	<6	<6	<6	<120	<6	<6
o-Xylene	<3 µg/kg	TM089	<3	<3	<3	<60	<3	<3
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24	<24	<24	36.3
Aliphatics >C5-C6	<10 µg/kg	TM089	287	42.9	11.6	<200	56.2	108
Aliphatics >C6-C8	<10 µg/kg	TM089	5960	283	109	<200	612	2200
Aliphatics >C8-C10	<10 µg/kg	TM089	7750	4410	4030	<200	5160	6270
Aliphatics >C10-C12	<10 µg/kg	TM089	6660	9100	11100	<200	4480	10900
Aliphatics >C12-C16	<100 µg/kg	TM173	26600	57800	375000	11700	3730000	90700
Aliphatics >C16-C21	<100 µg/kg	TM173	25000	60900	46400	22800	1150000	52300
Aliphatics >C21-C35	<100 µg/kg	TM173	260000	266000	108000	77700	1930000	145000
Aliphatics >C35-C44	<100 µg/kg	TM173	23800	295000	28100	22900	692000	44600
Total Aliphatics >C12-C44	<100 µg/kg	TM173	335000	679000	557000	135000	7510000	333000
Aromatics >EC5-EC7	<10 µg/kg	TM089	12.4	<10	<10	<200	<10	10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<200	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	5170	2940	2690	<200	3440	4210
Aromatics >EC10-EC12	<10 µg/kg	TM089	4440	6070	7420	<200	2990	7240
Aromatics >EC12-EC16	<100 µg/kg	TM173	21500	25300	72900	6630	2750000	155000
Aromatics >EC16-EC21	<100 µg/kg	TM173	32600	94600	26200	13600	2460000	220000
Aromatics >EC21-EC35	<100 µg/kg	TM173	268000	1090000	167000	105000	6650000	852000
Aromatics >EC35-EC44	<100 µg/kg	TM173	73800	669000	74900	44400	2140000	187000
Aromatics >EC40-EC44	<100 µg/kg	TM173	23900	289000	31900	15200	594000	53000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	395000	1880000	341000	169000	14000000	1410000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	761000	2580000	924000	305000	21500000	1780000



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 590		TPE 590		TPE 590		TPE 590		TPE 592	
#	ISO17025 accredited.		0.20 - 0.00		0.90 - 0.00		1.80 - 0.00		2.80 - 0.00		3.80 - 0.00	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014	
diss.filt	Dissolved / filtered sample.		30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014	
tot.unfilt	Total / unfiltered sample.		140530-49		140530-49		140530-49		140530-49		140530-49	
*	Subcontracted test.		9364399		9364460		9364521		9364576		9364640	
**	% 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)											
Component	LOD/Units	Method										
GRO Surrogate % recovery**	%	TM089	12		93		25		89		101	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<44		<880		11700		16900		<880	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5		<100		<5		<100		<100	
Benzene	<10 µg/kg	TM089	<10		<200		32.6		<200		<200	
Toluene	<2 µg/kg	TM089	<2		<40		10.4		<40		<40	
Ethylbenzene	<3 µg/kg	TM089	<3		<60		10.4		<60		<60	
m,p-Xylene	<6 µg/kg	TM089	<6		<120		8.88		<120		<120	
o-Xylene	<3 µg/kg	TM089	<3		<60		<3		<60		<60	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9		<9		<9		<9		<9	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24		<24		53.4		<24		<24	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10		<200		81.4		256		<200	
Aliphatics >C6-C8	<10 µg/kg	TM089	10.8		<200		108		514		<200	
Aliphatics >C8-C10	<10 µg/kg	TM089	<10		<200		1430		1380		<200	
Aliphatics >C10-C12	<10 µg/kg	TM089	<10		<200		5440		8050		<200	
Aliphatics >C12-C16	<100 µg/kg	TM173	1570		<100		5760		23800		<100	
Aliphatics >C16-C21	<100 µg/kg	TM173	12300		1380		6030		14000		<100	
Aliphatics >C21-C35	<100 µg/kg	TM173	63000		7820		29200		45300		<100	
Aliphatics >C35-C44	<100 µg/kg	TM173	29100		3590		3380		2250		<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	106000		12800		44400		85400		<100	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10		<200		32.6		212		<200	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10		<200		10.4		<200		<200	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10		<200		975		1020		<200	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10		<200		3630		5360		<200	
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100		<100		2560		9540		<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	5550		1400		2560		<100		<100	
Aromatics >EC21-EC35	<100 µg/kg	TM173	124000		9320		20900		46300		<100	
Aromatics >EC35-EC44	<100 µg/kg	TM173	74100		8570		3920		9400		4070	
Aromatics >EC40-EC44	<100 µg/kg	TM173	26400		3340		1180		4110		2230	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	204000		19300		30000		65200		4070	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	310000		32200		86100		167000		4070	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 592		TPE 592		TPE 592		TPE 593	
#	ISO17025 accredited.		TPE 592		TPE 592		TPE 592		TPE 593	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.80 - 0.00 Soil/Solid 28/05/2014		1.80 - 0.00 Soil/Solid 28/05/2014		3.00 - 0.00 Soil/Solid 28/05/2014		0.30 - 0.00 Soil/Solid 28/05/2014	
aq	Aqueous / settled sample.		30/05/2014 140530-49 9364763		30/05/2014 140530-49 9364832		30/05/2014 140530-49 9364876		30/05/2014 140530-49 9364853	
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)									
Component	LOD/Units	Method	TPE 592		TPE 592		TPE 592		TPE 593	
GRO Surrogate % recovery**	%	TM089	89	♦	87	♦	94		62	♦
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<880	♦ #	<880	♦ M	1830	M	<44	♦ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<100	♦ #	<100	♦ M	<100	M	<5	♦ M
Benzene	<10 µg/kg	TM089	<200	♦ #	<200	♦ M	<200	M	<10	♦ M
Toluene	<2 µg/kg	TM089	<40	♦ #	<40	♦ M	89	M	<2	♦ M
Ethylbenzene	<3 µg/kg	TM089	<60	♦ #	<60	♦ M	<60	M	<3	♦ M
m,p-Xylene	<6 µg/kg	TM089	<120	♦ #	<120	♦ M	<120	M	<6	♦ M
o-Xylene	<3 µg/kg	TM089	<60	♦ #	<60	♦ M	<60	M	<3	♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	♦	<9	♦	<9		<9	♦
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	♦	<24	♦	89		<24	♦
Aliphatics >C5-C6	<10 µg/kg	TM089	<200	♦	<200	♦	220		<10	♦
Aliphatics >C6-C8	<10 µg/kg	TM089	<200	♦	<200	♦	398		<10	♦
Aliphatics >C8-C10	<10 µg/kg	TM089	<200	♦	<200	♦	286		<10	♦
Aliphatics >C10-C12	<10 µg/kg	TM089	<200	♦	<200	♦	267		<10	♦
Aliphatics >C12-C16	<100 µg/kg	TM173	14200		1220		3310		<100	
Aliphatics >C16-C21	<100 µg/kg	TM173	36700		743		1540		<100	
Aliphatics >C21-C35	<100 µg/kg	TM173	58800		5720		1620		<100	
Aliphatics >C35-C44	<100 µg/kg	TM173	24300		4410		1570		<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	134000		12100		8050		<100	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<200	♦	<200	♦	<200		<10	♦
Aromatics >EC7-EC8	<10 µg/kg	TM089	<200	♦	<200	♦	<200		<10	♦
Aromatics >EC8-EC10	<10 µg/kg	TM089	<200	♦	<200	♦	322		<10	♦
Aromatics >EC10-EC12	<10 µg/kg	TM089	<200	♦	<200	♦	<200		<10	♦
Aromatics >EC12-EC16	<100 µg/kg	TM173	2640		477		1120		<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	6970		<100		<100		<100	
Aromatics >EC21-EC35	<100 µg/kg	TM173	36700		10200		13900		<100	
Aromatics >EC35-EC44	<100 µg/kg	TM173	24100		7090		6140		5150	
Aromatics >EC40-EC44	<100 µg/kg	TM173	9490		3580		2830		2050	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	70400		17800		21200		5150	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	204000		30100		31000		5160	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R	TPE 593	TPE 593	TPE 594	TPE 594	TPE 594	TPE 594
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		2.50 - 0.00	3.60 - 0.00	0.30 - 0.00	1.30 - 0.00	2.30 - 0.00	3.30 - 0.00
M	mCERTS accredited.			Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.			28/05/2014	28/05/2014	28/05/2014	28/05/2014	28/05/2014	28/05/2014
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								
(F)	Trigger breach confirmed								
1-5&*\$@	Sample deviation (see appendix)								
Component	LOD/Units		Method						
GRO Surrogate % recovery**	%	TM089	79	56	33	97	86	89	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<44 M	102 M	580 M	250000 M	35000 M	<44 M	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 M	<5 M	<5 M	<100 M	<5 M	<5 M	
Benzene	<10 µg/kg	TM089	<10 M	<10 M	<10 M	<200 M	15.9 M	<10 M	
Toluene	<2 µg/kg	TM089	3.66 M	<2 M	<2 M	<40 M	<2 M	<2 M	
Ethylbenzene	<3 µg/kg	TM089	<3 M	<3 M	<3 M	<60 M	<3 M	<3 M	
m,p-Xylene	<6 µg/kg	TM089	<6 M	<6 M	<6 M	<120 M	15.9 M	<6 M	
o-Xylene	<3 µg/kg	TM089	<3 M	<3 M	<3 M	<60 M	<3 M	<3 M	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	<9	15.9	<9	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24	<24	31.8	<24	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10	<10	<10	650	56.1	<10	
Aliphatics >C6-C8	<10 µg/kg	TM089	<10	16.2	26	2480	803	<10	
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	19.7	76.8	40400	7190	<10	
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	25.5	247	108000	13300	<10	
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	717	3810	1100000	159000	131000	
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	2300	2950	710000	87500	79300	
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	<100	4670	111000	<100	23200	
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	165	2420	69100	1460	3350	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	3180	13900	1990000	248000	236000	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	<10	<10	<200	15.9	<10	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	<10	<10	<200	<10	<10	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10	16.2	53.1	26900	4810	<10	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	17.4	165	72000	8860	<10	
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	1110	<100	487000	47500	31500	
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	2430	<100	535000	51700	40500	
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	37100	<100	455000	34600	7600	
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	5890	<100	185000	23900	3850	
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	1610	<100	77600	9450	1070	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	46600	<100	1660000	158000	83400	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	<100	49800	14400	3900000	441000	320000	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 639		TPE 639		TPE 639		TPE 639		TPE 642		TPE 642	
#	ISO17025 accredited.		TPE 639		TPE 639		TPE 639		TPE 639		TPE 642		TPE 642	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.00 Soil/Solid 28/05/2014		1.30 - 0.00 Soil/Solid 28/05/2014		2.30 - 0.00 Soil/Solid 28/05/2014		3.30 - 0.00 Soil/Solid 28/05/2014		0.50 - 0.00 Soil/Solid 28/05/2014		1.50 - 0.00 Soil/Solid 28/05/2014	
aq	Aqueous / settled sample.		30/05/2014 140530-49 9364826		30/05/2014 140530-49 9364838		30/05/2014 140530-49 9364843		30/05/2014 140530-49 9364849		30/05/2014 140530-49 9364793		30/05/2014 140530-49 9364799	
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)													
Component	LOD/Units	Method	TPE 639		TPE 639		TPE 639		TPE 639		TPE 642		TPE 642	
GRO Surrogate % recovery**	%	TM089	68		99		72		99		79		103	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<44		9490		961		2880		<880		<880	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5		<5		<5		<5		<100		<100	
Benzene	<10 µg/kg	TM089	<10		<10		<10		<10		<200		<200	
Toluene	<2 µg/kg	TM089	<2		<2		<2		<2		<40		76.7	
Ethylbenzene	<3 µg/kg	TM089	<3		<3		<3		<3		<60		<60	
m,p-Xylene	<6 µg/kg	TM089	<6		<6		<6		<6		<120		<120	
o-Xylene	<3 µg/kg	TM089	<3		<3		<3		<3		<60		<60	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9		<9		<9		<9		<9		<9	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24		<24		<24		<24		<24		76.7	
Aliphatics >C5-C6	<10 µg/kg	TM089	<10		12		10.6		<10		<200		<200	
Aliphatics >C6-C8	<10 µg/kg	TM089	<10		48		56.6		33.6		<200		<200	
Aliphatics >C8-C10	<10 µg/kg	TM089	<10		1150		210		448		<200		<200	
Aliphatics >C10-C12	<10 µg/kg	TM089	<10		4510		326		1250		<200		<200	
Aliphatics >C12-C16	<100 µg/kg	TM173	<100		38000		17100		1140		1360		1840	
Aliphatics >C16-C21	<100 µg/kg	TM173	<100		24900		7560		<100		6220		8560	
Aliphatics >C21-C35	<100 µg/kg	TM173	<100		3390		3090		<100		24300		159000	
Aliphatics >C35-C44	<100 µg/kg	TM173	<100		2460		<100		<100		15400		36100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100		68700		27800		1140		47300		205000	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10		<10		<10		<10		<200		<200	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10		<10		<10		<10		<200		<200	
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10		764		140		302		<200		219	
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10		3010		217		833		<200		<200	
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100		9300		7260		<100		7110		<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100		14400		9790		<100		7720		3970	
Aromatics >EC21-EC35	<100 µg/kg	TM173	6760		4180		<100		1060		39700		45300	
Aromatics >EC35-EC44	<100 µg/kg	TM173	4510		7240		632		<100		22000		29100	
Aromatics >EC40-EC44	<100 µg/kg	TM173	1250		2910		<100		<100		8220		11600	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	11300		35100		17700		1060		76500		78400	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	11300		113000		46400		5070		124000		284000	



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R						
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m)						
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Sample Type						
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.	Date Sampled						
**	% 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	Date Received						
1-5&*&@	Sample deviation (see appendix)							
Component		LOD/Units	Method					
GRO Surrogate % recovery**	%	TM089	16	103	100	70	36	76
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	5240 M	<880 M	303000 M	28700 M	2860 M	2940 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 M	<100 M	<100 M	<100 M	<5 M	<100 M
Benzene	<10 µg/kg	TM089	31.9 M	<200 M	<200 M	<200 M	<10 M	<200 M
Toluene	<2 µg/kg	TM089	59.9 M	<40 M	<40 M	<40 M	<2 M	336 M
Ethylbenzene	<3 µg/kg	TM089	23.9 M	<60 M	<60 M	<60 M	<3 M	86.5 M
m,p-Xylene	<6 µg/kg	TM089	51.9 M	<120 M	<120 M	<120 M	<6 M	390 M
o-Xylene	<3 µg/kg	TM089	45.2 M	<60 M	<60 M	<60 M	<3 M	86.5 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	97.1	<9	<9	<9	<9	477
sum of detected BTEX by GC	<24 µg/kg	TM089	213	<24	<24	<24	<24	900
Aliphatics >C5-C6	<10 µg/kg	TM089	98.4	<200	896	<200	15.8	<200
Aliphatics >C6-C8	<10 µg/kg	TM089	222	<200	9760	386	115	371
Aliphatics >C8-C10	<10 µg/kg	TM089	657	<200	68200	2540	559	473
Aliphatics >C10-C12	<10 µg/kg	TM089	2170	<200	107000	14400	1080	407
Aliphatics >C12-C16	<100 µg/kg	TM173	73600	<100	6300	232000	140000	7880
Aliphatics >C16-C21	<100 µg/kg	TM173	192000	594	34400	671000	285000	17300
Aliphatics >C21-C35	<100 µg/kg	TM173	711000	60000	167000	2050000	630000	52300
Aliphatics >C35-C44	<100 µg/kg	TM173	250000	28400	98800	965000	262000	41100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1230000	89000	306000	3910000	1320000	118000
Aromatics >EC5-EC7	<10 µg/kg	TM089	31.9	<200	<200	<200	<10	<200
Aromatics >EC7-EC8	<10 µg/kg	TM089	59.9	<200	<200	<200	<10	336
Aromatics >EC8-EC10	<10 µg/kg	TM089	559	<200	45400	1690	373	879
Aromatics >EC10-EC12	<10 µg/kg	TM089	1440	<200	71400	9590	720	271
Aromatics >EC12-EC16	<100 µg/kg	TM173	35000	174	3920	148000	51700	4190
Aromatics >EC16-EC21	<100 µg/kg	TM173	117000	1950	26600	697000	235000	10800
Aromatics >EC21-EC35	<100 µg/kg	TM173	638000	40600	177000	2060000	650000	105000
Aromatics >EC35-EC44	<100 µg/kg	TM173	420000	31800	135000	1050000	343000	69000
Aromatics >EC40-EC44	<100 µg/kg	TM173	175000	12300	57900	448000	148000	27900
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1210000	74500	343000	3950000	1280000	189000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2440000	164000	952000	7890000	2600000	310000



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R						
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m)						
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Sample Type						
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.	Date Sampled						
**	% 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	Date Received						
1-5&*\$@	Sample deviation (see appendix)							
Component		LOD/Units	Method					
GRO Surrogate % recovery**	%	TM089	77	85	42	28	81	17
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	23100	7230	3090	1210	15400	885
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<100	<100	<5	<5	<100	<5
Benzene	<10 µg/kg	TM089	<200	<200	<10	<10	<200	<10
Toluene	<2 µg/kg	TM089	130	<40	<2	4.8	<40	9.76
Ethylbenzene	<3 µg/kg	TM089	<60	<60	<3	<3	<60	3.66
m,p-Xylene	<6 µg/kg	TM089	<120	<120	<6	<6	<120	9.76
o-Xylene	<3 µg/kg	TM089	<60	<60	<3	<3	<60	7.32
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	<9	<9	17.1
sum of detected BTEX by GC	<24 µg/kg	TM089	130	<24	<24	<24	<24	30.5
Aliphatics >C5-C6	<10 µg/kg	TM089	<200	<200	18.6	13.2	<200	47.6
Aliphatics >C6-C8	<10 µg/kg	TM089	473	252	137	68.4	507	46.4
Aliphatics >C8-C10	<10 µg/kg	TM089	2430	931	608	246	3890	70.8
Aliphatics >C10-C12	<10 µg/kg	TM089	10900	3220	1150	424	4980	381
Aliphatics >C12-C16	<100 µg/kg	TM173	178000	53900	167000	77200	53500	106000
Aliphatics >C16-C21	<100 µg/kg	TM173	130000	163000	522000	231000	177000	175000
Aliphatics >C21-C35	<100 µg/kg	TM173	229000	424000	1200000	563000	255000	330000
Aliphatics >C35-C44	<100 µg/kg	TM173	95700	277000	506000	276000	120000	123000
Total Aliphatics >C12-C44	<100 µg/kg	TM173	633000	918000	2390000	1150000	605000	734000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<200	<200	<10	<10	<200	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<200	<200	<10	<10	<200	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	1800	620	406	166	2640	67.1
Aromatics >EC10-EC12	<10 µg/kg	TM089	7240	2140	766	283	3320	254
Aromatics >EC12-EC16	<100 µg/kg	TM173	78000	25300	67000	28400	14600	29600
Aromatics >EC16-EC21	<100 µg/kg	TM173	118000	142000	395000	197000	131000	120000
Aromatics >EC21-EC35	<100 µg/kg	TM173	302000	340000	681000	704000	235000	893000
Aromatics >EC35-EC44	<100 µg/kg	TM173	121000	366000	270000	394000	116000	431000
Aromatics >EC40-EC44	<100 µg/kg	TM173	46900	211000	124000	167000	54900	158000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	618000	874000	1410000	1320000	497000	1470000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1270000	1800000	3810000	2470000	1120000	2210000



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 645		TPE 645		TPE 645		TPE 645		TPE 646	
#	ISO17025 accredited.		TPE 645		TPE 645		TPE 645		TPE 645		TPE 646	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.30 - 0.00		1.20 - 0.00		2.30 - 0.00		3.70 - 0.00		4.80 - 0.00	
aq	Aqueous / settled sample.		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
diss.filt	Dissolved / filtered sample.		28/05/2014		28/05/2014		28/05/2014		28/05/2014		28/05/2014	
tot.unfilt	Total / unfiltered sample.		30/05/2014		30/05/2014		30/05/2014		30/05/2014		30/05/2014	
*	Subcontracted test.		140530-49		140530-49		140530-49		140530-49		140530-49	
**	% 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		9364586		9364590		9364594		9364602		9364608	
(F)	Trigger breach confirmed											
1-5&*\$@	Sample deviation (see appendix)											
Component	LOD/Units	Method										
GRO Surrogate % recovery**	%	TM089	88	99	76	109	89	78				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<880	2940	<880	3750000	3020000	<880				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<100	<100	<100	26100	16100	<100				
Benzene	<10 µg/kg	TM089	<200	<200	<200	3650	2950	<200				
Toluene	<2 µg/kg	TM089	<40	<40	<40	<40	<40	<40				
Ethylbenzene	<3 µg/kg	TM089	<60	<60	<60	10700	20300	<60				
m,p-Xylene	<6 µg/kg	TM089	<120	<120	<120	69400	69700	<120				
o-Xylene	<3 µg/kg	TM089	<60	<60	<60	46100	44900	<60				
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	<9	<9	116000	115000	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	<24	130000	138000	<24				
Aliphatics >C5-C6	<10 µg/kg	TM089	<200	<200	<200	72100	39400	<200				
Aliphatics >C6-C8	<10 µg/kg	TM089	<200	230	<200	830000	607000	<200				
Aliphatics >C8-C10	<10 µg/kg	TM089	<200	424	<200	897000	724000	<200				
Aliphatics >C10-C12	<10 µg/kg	TM089	<200	1040	<200	721000	608000	<200				
Aliphatics >C12-C16	<100 µg/kg	TM173	2520	<100	12300	4530000	10600000	16000				
Aliphatics >C16-C21	<100 µg/kg	TM173	18300	1680	32800	2440000	7240000	40200				
Aliphatics >C21-C35	<100 µg/kg	TM173	205000	12400	148000	4780000	15600000	91900				
Aliphatics >C35-C44	<100 µg/kg	TM173	98300	4400	58200	750000	2370000	19400				
Total Aliphatics >C12-C44	<100 µg/kg	TM173	324000	18500	251000	12500000	35800000	168000				
Aromatics >EC5-EC7	<10 µg/kg	TM089	<200	<200	<200	3650	2950	<200				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<200	<200	<200	<200	<200	<200				
Aromatics >EC8-EC10	<10 µg/kg	TM089	<200	362	<200	724000	617000	<200				
Aromatics >EC10-EC12	<10 µg/kg	TM089	<200	696	<200	480000	405000	<200				
Aromatics >EC12-EC16	<100 µg/kg	TM173	15100	<100	4390	3430000	4600000	4570				
Aromatics >EC16-EC21	<100 µg/kg	TM173	164000	1510	21500	2590000	4360000	18800				
Aromatics >EC21-EC35	<100 µg/kg	TM173	1250000	10700	185000	5380000	10500000	96700				
Aromatics >EC35-EC44	<100 µg/kg	TM173	422000	9960	96400	1440000	2610000	54300				
Aromatics >EC40-EC44	<100 µg/kg	TM173	132000	4590	35700	531000	957000	21700				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	1860000	22200	307000	12800000	22100000	174000				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	2180000	43600	558000	29100000	60900000	342000				



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 646	TPE 646				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	108	66				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	6090000 3 ♦ M	2560000 3 ♦ M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<100 ♦ M	<100 ♦ M				
Benzene	<10 µg/kg	TM089	13300 ♦ M	25500 ♦ M				
Toluene	<2 µg/kg	TM089	12800 ♦ M	15900 ♦ M				
Ethylbenzene	<3 µg/kg	TM089	27100 ♦ M	25200 ♦ M				
m,p-Xylene	<6 µg/kg	TM089	138000 ♦ M	91700 ♦ M				
o-Xylene	<3 µg/kg	TM089	113000 ♦ M	45300 ♦ M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089	251000 ♦	137000 ♦				
sum of detected BTEX by GC	<24 µg/kg	TM089	304000 ♦	204000 ♦				
Aliphatics >C5-C6	<10 µg/kg	TM089	190000 3 ♦	245000 ♦				
Aliphatics >C6-C8	<10 µg/kg	TM089	1950000 3 ♦	1040000 ♦				
Aliphatics >C8-C10	<10 µg/kg	TM089	1520000 3 ♦	443000 ♦				
Aliphatics >C10-C12	<10 µg/kg	TM089	670000 3 ♦	196000 ♦				
Aliphatics >C12-C16	<100 µg/kg	TM173	12100000	12300000				
Aliphatics >C16-C21	<100 µg/kg	TM173	9070000	7400000				
Aliphatics >C21-C35	<100 µg/kg	TM173	7870000	14000000				
Aliphatics >C35-C44	<100 µg/kg	TM173	1200000	2700000				
Total Aliphatics >C12-C44	<100 µg/kg	TM173	30300000	36400000				
Aromatics >EC5-EC7	<10 µg/kg	TM089	13300 3 ♦	25500 ♦				
Aromatics >EC7-EC8	<10 µg/kg	TM089	12800 3 ♦	15900 ♦				
Aromatics >EC8-EC10	<10 µg/kg	TM089	1290000 3 ♦	457000 ♦				
Aromatics >EC10-EC12	<10 µg/kg	TM089	447000 3 ♦	131000 ♦				
Aromatics >EC12-EC16	<100 µg/kg	TM173	5250000	7190000				
Aromatics >EC16-EC21	<100 µg/kg	TM173	4490000	5270000				
Aromatics >EC21-EC35	<100 µg/kg	TM173	6560000	10200000				
Aromatics >EC35-EC44	<100 µg/kg	TM173	1560000	2500000				
Aromatics >EC40-EC44	<100 µg/kg	TM173	574000	894000				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	17900000	25100000				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	54200000	64100000				



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 542 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364657 TM048	10/6/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 543 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364681 TM048	10/6/14	Chris Swindells	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 544 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364707 TM048	10/6/14	Simon Postlewhite	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 545 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364733 TM048	10/6/14	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 546 0.20 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364502 TM048	10/6/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 585 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364774 TM048	10/6/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 586 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364757 TM048	10/6/14	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 587 0.40 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364472 TM048	10/6/14	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 588 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364441 TM048	10/6/14	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 589 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364413 TM048	10/6/14	Kevin Bowron	Soil containing ACM debris	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 590 0.20 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364399 TM048	10/6/14	Chris Swindells	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 590 0.90 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364460 TM048	10/6/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 592 0.20 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364700 TM048	10/6/14	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 592 0.80 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364763 TM048	10/6/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 593 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364853 TM048	10/6/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 594 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364631 TM048	10/6/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 639 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364826 TM048	10/6/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 642 0.50 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364793 TM048	10/6/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 643 0.20 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364552 TM048	10/6/14	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 644 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364530 TM048	10/6/14	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 645 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364586 TM048	10/6/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 646 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364613 TM048	10/6/14	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 544 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364707 TM 304	Crocidolite (#)	Loose fibres	0.3256 (#)	0.0014 (#)	0.327 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 545 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364733 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 586 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364757 TM 304	Crocidolite (Loose fibres in soil). (#)	N/C	<0.001 (#)	<0.001 (#)	0.0014 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 588 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364441 TM 304	Amosite, crocidolite (Loose fibres in soil.) (#)	N/C	0.0021 (#)	<0.001 (#)	0.0026 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 589 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364413 TM 304	None (#)	Amphibole fibres found during PCM analysis.	<0.001 (#)	<0.001 (#)	0.0011 (#)



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 590 0.20 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364399 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 592 0.20 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364700 TM 304	Crocidolite (#)	Loose fibres in soil	0.0015 (#)	0.0018 (#)	0.0033 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 643 0.20 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364552 TM 304	None (#)	Amphibole fibres found during PCM analysis.	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 646 0.30 - 0.00 SOLID 28/05/2014 00:00:00 140530-49 9364613 TM 304	None (#)	N/C	0.5204 (#)	<0.001 (#)	0.5211 (#)



SDG:	140530-49	Location:	Coed Darcy	Order Number:	CD0689
Job:	H_ATKINS_LDC-208	Customer:	Atkins Global Ltd	Report Number:	274150
Client Reference:	TP East	Attention:	Jack Lowrie	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM 304				
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
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		
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		

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



SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	9364657	9364661	9364667	9364676	9364681	9364685	9364690	9364695	9364707	9364713
	TPE 542	TPE 542	TPE 542	TPE 542	TPE 543	TPE 543	TPE 543	TPE 543	TPE 544	TPE 544
AGS Ref.										
Depth	0.30 - 0.00	1.30 - 0.00	2.30 - 0.00	3.50 - 0.00	0.30 - 0.00	1.30 - 0.00	2.50 - 0.00	3.30 - 0.00	0.30 - 0.00	1.30 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	10-Jun-2014				10-Jun-2014				10-Jun-2014	
Asbestos Quantification - Full									19-Jun-2014	
EPH CWG (Aliphatic) GC (S)	12-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
EPH CWG (Aromatic) GC (S)	12-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
GRO by GC-FID (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	13-Jun-2014
Metals in solid samples by OES	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	10-Jun-2014	12-Jun-2014	05-Jun-2014	03-Jun-2014	12-Jun-2014	12-Jun-2014
PAH by GCMS	10-Jun-2014	12-Jun-2014	12-Jun-2014	10-Jun-2014	10-Jun-2014	12-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014
pH	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	09-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014
Sample description	03-Jun-2014	30-May-2014	30-May-2014	30-May-2014	03-Jun-2014	30-May-2014	30-May-2014	30-May-2014	02-Jun-2014	30-May-2014
Total Organic Carbon	06-Jun-2014				06-Jun-2014				09-Jun-2014	
TPH CWG GC (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	13-Jun-2014
Lab Sample No(s) Customer Sample Ref.	9364717	9364724	9364729	9364733	9364739	9364745	9364749	9364502	9364506	9364510
	TPE 544	TPE 544	TPE 544	TPE 545	TPE 545	TPE 545	TPE 545	TPE 546	TPE 546	TPE 546
AGS Ref.										
Depth	2.30 - 0.00	3.30 - 0.00	4.30 - 0.00	0.30 - 0.00	1.30 - 0.00	2.30 - 0.00	3.30 - 0.00	0.20 - 0.00	1.20 - 0.00	2.40 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples				10-Jun-2014				10-Jun-2014		
Asbestos Quantification - Full				18-Jun-2014						
EPH CWG (Aliphatic) GC (S)	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	11-Jun-2014	06-Jun-2014
EPH CWG (Aromatic) GC (S)	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	11-Jun-2014	06-Jun-2014
GRO by GC-FID (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	13-Jun-2014	13-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014
Metals in solid samples by OES	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	11-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	11-Jun-2014
PAH by GCMS	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	11-Jun-2014	09-Jun-2014
pH	09-Jun-2014	09-Jun-2014	09-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014
Sample description	30-May-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014	30-May-2014	30-May-2014	30-May-2014	02-Jun-2014	30-May-2014	30-May-2014
Total Organic Carbon					09-Jun-2014			09-Jun-2014		
TPH CWG GC (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	13-Jun-2014	13-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014
Lab Sample No(s) Customer Sample Ref.	9364514	9364525	9364774	9364781	9364787	9364757	9364768	9364472	9364483	9364488
	TPE 546	TPE 546	TPE 585	TPE 585	TPE 585	TPE 586	TPE 586	TPE 587	TPE 587	TPE 587
AGS Ref.										
Depth	3.40 - 0.00	4.80 - 0.00	0.30 - 0.00	1.30 - 0.00	2.30 - 0.00	0.30 - 0.00	1.50 - 0.00	0.40 - 0.00	1.50 - 0.00	2.50 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			10-Jun-2014			10-Jun-2014		10-Jun-2014		
Asbestos Quantification - Full						19-Jun-2014				
EPH CWG (Aliphatic) GC (S)	06-Jun-2014	05-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
EPH CWG (Aromatic) GC (S)	06-Jun-2014	05-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
GRO by GC-FID (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	13-Jun-2014	12-Jun-2014	13-Jun-2014	13-Jun-2014	12-Jun-2014
Metals in solid samples by OES	12-Jun-2014	12-Jun-2014	11-Jun-2014	12-Jun-2014	12-Jun-2014	05-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014
PAH by GCMS	11-Jun-2014	10-Jun-2014	11-Jun-2014	11-Jun-2014	10-Jun-2014	11-Jun-2014	12-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014
pH	09-Jun-2014	09-Jun-2014	09-Jun-2014	06-Jun-2014	09-Jun-2014	05-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014
Sample description	30-May-2014	30-May-2014	30-May-2014	31-May-2014	31-May-2014	30-May-2014	02-Jun-2014	02-Jun-2014	30-May-2014	30-May-2014
Total Organic Carbon			06-Jun-2014			05-Jun-2014		06-Jun-2014		
TPH CWG GC (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	13-Jun-2014	12-Jun-2014	13-Jun-2014	13-Jun-2014	12-Jun-2014
Lab Sample No(s) Customer Sample Ref.	9364493	9364497	9364441	9364445	9364452	9364456	9364467	9364413	9364418	9364424
	TPE 587	TPE 587	TPE 588	TPE 588	TPE 588	TPE 588	TPE 588	TPE 589	TPE 589	TPE 589
AGS Ref.										
Depth	3.50 - 0.00	4.80 - 0.00	0.30 - 0.00	1.40 - 0.00	2.30 - 0.00	3.50 - 0.00	4.80 - 0.00	0.30 - 0.00	1.20 - 0.00	2.30 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			10-Jun-2014					10-Jun-2014		
Asbestos Quantification - Full			19-Jun-2014					19-Jun-2014		
EPH CWG (Aliphatic) GC (S)	07-Jun-2014	05-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
EPH CWG (Aromatic) GC (S)	07-Jun-2014	05-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
GRO by GC-FID (S)	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014
Metals in solid samples by OES	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	10-Jun-2014	12-Jun-2014	10-Jun-2014
PAH by GCMS	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	11-Jun-2014	10-Jun-2014
pH	09-Jun-2014	06-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014
Sample description	30-May-2014	30-May-2014	02-Jun-2014	30-May-2014	30-May-2014	30-May-2014	30-May-2014	03-Jun-2014	30-May-2014	30-May-2014
Total Organic Carbon			09-Jun-2014						10-Jun-2014	
TPH CWG GC (S)	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	13-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014



CERTIFICATE OF ANALYSIS

SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
Superseded Report:

Lab Sample No(s)	9364429	9364436	9364399	9364460	9364521	9364576	9364640	9364407	9364700	9364763
Customer Sample Ref.	TPE 589	TPE 589	TPE 590	TPE 590	TPE 590	TPE 590	TPE 590	TPE 592	TPE 592	TPE 592
AGS Ref.										
Depth	3.30 - 0.00	4.50 - 0.00	0.20 - 0.00	0.90 - 0.00	1.80 - 0.00	2.80 - 0.00	3.80 - 0.00	4.00 - 0.00	0.20 - 0.00	0.80 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			10-Jun-2014	10-Jun-2014					10-Jun-2014	10-Jun-2014
Asbestos Quantification - Full			19-Jun-2014						19-Jun-2014	
EPH CWG (Aliphatic) GC (S)	07-Jun-2014	09-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	07-Jun-2014	06-Jun-2014
EPH CWG (Aromatic) GC (S)	07-Jun-2014	09-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014
GRO by GC-FID (S)	11-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014
Metals in solid samples by OES	12-Jun-2014	10-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	11-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014
PAH by GCMS	11-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	11-Jun-2014	11-Jun-2014	11-Jun-2014	11-Jun-2014	11-Jun-2014	12-Jun-2014
pH	09-Jun-2014	09-Jun-2014	09-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	06-Jun-2014	09-Jun-2014
Sample description	30-May-2014	30-May-2014	02-Jun-2014	02-Jun-2014	30-May-2014	30-May-2014	30-May-2014	30-May-2014	02-Jun-2014	02-Jun-2014
Total Organic Carbon			06-Jun-2014							10-Jun-2014
TPH CWG GC (S)	11-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014

Lab Sample No(s)	9364832	9364876	9364853	9364859	9364865	9364870	9364631	9364636	9364646	9364651
Customer Sample Ref.	TPE 592	TPE 592	TPE 593	TPE 593	TPE 593	TPE 593	TPE 594	TPE 594	TPE 594	TPE 594
AGS Ref.										
Depth	1.80 - 0.00	3.00 - 0.00	0.30 - 0.00	1.20 - 0.00	2.50 - 0.00	3.60 - 0.00	0.30 - 0.00	1.30 - 0.00	2.30 - 0.00	3.30 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			10-Jun-2014				10-Jun-2014			
EPH CWG (Aliphatic) GC (S)	06-Jun-2014	06-Jun-2014	06-Jun-2014	07-Jun-2014	06-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
EPH CWG (Aromatic) GC (S)	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
GRO by GC-FID (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014
Metals in solid samples by OES	12-Jun-2014	12-Jun-2014	05-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	12-Jun-2014
PAH by GCMS	11-Jun-2014	12-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014
pH	09-Jun-2014	09-Jun-2014	09-Jun-2014	06-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014
Sample description	30-May-2014	30-May-2014	30-May-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014	03-Jun-2014	30-May-2014	30-May-2014	30-May-2014
Total Organic Carbon				09-Jun-2014				06-Jun-2014		
TPH CWG GC (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014

Lab Sample No(s)	9364826	9364838	9364843	9364849	9364793	9364799	9364805	9364813	9364820	9364552
Customer Sample Ref.	TPE 639	TPE 639	TPE 639	TPE 639	TPE 642	TPE 642	TPE 642	TPE 642	TPE 642	TPE 643
AGS Ref.										
Depth	0.30 - 0.00	1.30 - 0.00	2.30 - 0.00	3.30 - 0.00	0.50 - 0.00	1.50 - 0.00	2.50 - 0.00	3.50 - 0.00	4.50 - 0.00	0.20 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	10-Jun-2014				10-Jun-2014					10-Jun-2014
Asbestos Quantification - Full										19-Jun-2014
EPH CWG (Aliphatic) GC (S)	06-Jun-2014	06-Jun-2014	05-Jun-2014	09-Jun-2014	06-Jun-2014	05-Jun-2014	05-Jun-2014	05-Jun-2014	05-Jun-2014	06-Jun-2014
EPH CWG (Aromatic) GC (S)	06-Jun-2014	06-Jun-2014	05-Jun-2014	09-Jun-2014	06-Jun-2014	05-Jun-2014	05-Jun-2014	05-Jun-2014	05-Jun-2014	06-Jun-2014
GRO by GC-FID (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014
Metals in solid samples by OES	10-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	05-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014
PAH by GCMS	10-Jun-2014	10-Jun-2014	10-Jun-2014	11-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	11-Jun-2014	12-Jun-2014	10-Jun-2014
pH	09-Jun-2014	06-Jun-2014	09-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014
Sample description	03-Jun-2014	03-Jun-2014	02-Jun-2014	03-Jun-2014	30-May-2014	02-Jun-2014	31-May-2014	02-Jun-2014	31-May-2014	03-Jun-2014
Total Organic Carbon	06-Jun-2014				11-Jun-2014					06-Jun-2014
TPH CWG GC (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014

Lab Sample No(s)	9364556	9364563	9364570	9364530	9364535	9364539	9364543	9364547	9364586	9364590
Customer Sample Ref.	TPE 643	TPE 643	TPE 643	TPE 644	TPE 644	TPE 644	TPE 644	TPE 644	TPE 645	TPE 645
AGS Ref.										
Depth	1.60 - 0.00	2.60 - 0.00	3.80 - 0.00	0.30 - 0.00	1.30 - 0.00	2.50 - 0.00	3.50 - 0.00	4.50 - 0.00	0.30 - 0.00	1.20 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples				10-Jun-2014					10-Jun-2014	
EPH CWG (Aliphatic) GC (S)	06-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	07-Jun-2014	06-Jun-2014	06-Jun-2014
EPH CWG (Aromatic) GC (S)	06-Jun-2014	06-Jun-2014	06-Jun-2014	05-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
GRO by GC-FID (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014
Metals in solid samples by OES	12-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	12-Jun-2014
PAH by GCMS	10-Jun-2014	12-Jun-2014	10-Jun-2014	11-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	10-Jun-2014	11-Jun-2014	12-Jun-2014
pH	06-Jun-2014	06-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	06-Jun-2014	09-Jun-2014	09-Jun-2014	06-Jun-2014
Sample description	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014
Total Organic Carbon				11-Jun-2014						11-Jun-2014
TPH CWG GC (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014	12-Jun-2014



CERTIFICATE OF ANALYSIS

SDG:	140530-49	Location:	Coed Darcy	Order Number:	CD0689
Job:	H_ATKINS_LDC-208	Customer:	Atkins Global Ltd	Report Number:	274150
Client Reference:	TP East	Attention:	Jack Lowrie	Superseded Report:	

Lab Sample No(s)	9364594	9364602	9364608	9364613	9364619	9364625
Customer Sample Ref.	TPE 645	TPE 645	TPE 645	TPE 646	TPE 646	TPE 646
AGS Ref.						
Depth	2.30 - 0.00	3.70 - 0.00	4.60 - 0.00	0.30 - 0.00	1.30 - 0.00	2.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples				10-Jun-2014		
Asbestos Quantification - Full				19-Jun-2014		
EPH CWG (Aliphatic) GC (S)	11-Jun-2014	09-Jun-2014	09-Jun-2014	05-Jun-2014	09-Jun-2014	09-Jun-2014
EPH CWG (Aromatic) GC (S)	11-Jun-2014	07-Jun-2014	07-Jun-2014	05-Jun-2014	09-Jun-2014	07-Jun-2014
GRO by GC-FID (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	12-Jun-2014
Metals in solid samples by OES	12-Jun-2014	12-Jun-2014	12-Jun-2014	11-Jun-2014	12-Jun-2014	12-Jun-2014
PAH by GCMS	10-Jun-2014	10-Jun-2014	10-Jun-2014	11-Jun-2014	10-Jun-2014	10-Jun-2014
pH	06-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014	09-Jun-2014
Sample description	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014
Total Organic Carbon				11-Jun-2014		
TPH CWG GC (S)	12-Jun-2014	12-Jun-2014	12-Jun-2014	13-Jun-2014	12-Jun-2014	12-Jun-2014



SDG: 140530-49
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0689
Report Number: 274150
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 Anthophyllite	-
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.



Atkins Global Ltd
Project Jonah site office
Llan Coed House
Suite 24
Coed Darcy
Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date: 09 June 2014
Customer: H_ATKINS_LDC
Sample Delivery Group (SDG): 140522-119
Your Reference: TP East
Location: Coed Darcy
Report No: 272711

We received 62 samples on Thursday May 22, 2014 and 62 of these samples were scheduled for analysis which was completed on Monday June 09, 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: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9327304	TPE 282		0.20 - 0.20	15/05/2014
9327308	TPE 282		1.00 - 1.00	15/05/2014
9327313	TPE 282		2.00 - 2.00	15/05/2014
9327318	TPE 282		3.00 - 3.00	15/05/2014
9327323	TPE 282		3.70 - 3.70	15/05/2014
9327431	TPE 333		0.20 - 0.20	15/05/2014
9327493	TPE 333		1.00 - 1.00	15/05/2014
9327548	TPE 333		2.00 - 2.00	15/05/2014
9327594	TPE 333		3.00 - 3.00	15/05/2014
9327602	TPE 333		4.00 - 4.00	15/05/2014
9327300	TPE 333		5.00 - 5.00	15/05/2014
9327296	TPE 340		0.30 - 0.30	15/05/2014
9327328	TPE 340		1.00 - 1.00	15/05/2014
9327333	TPE 340		2.00 - 2.00	15/05/2014
9327375	TPE 340		2.90 - 2.90	15/05/2014
9327338	TPE 380		0.50 - 0.50	15/05/2014
9327342	TPE 381		2.00 - 2.00	15/05/2014
9327347	TPE 381		3.00 - 3.00	15/05/2014
9327351	TPE 381		4.00 - 4.00	15/05/2014
9327356	TPE 381		5.00 - 5.00	15/05/2014
9327360	TPE 382		0.30 - 0.30	16/05/2014
9327365	TPE 382		1.00 - 1.00	16/05/2014
9327370	TPE 382		2.00 - 2.00	16/05/2014
9327380	TPE 382		3.00 - 3.00	16/05/2014
9327384	TPE 382		4.00 - 4.00	16/05/2014
9327388	TPE 382		5.00 - 5.00	16/05/2014
9327392	TPE 383		0.10 - 0.10	16/05/2014
9327396	TPE 383		1.10 - 1.10	16/05/2014
9327402	TPE 383		2.20 - 2.20	16/05/2014
9327406	TPE 383		3.30 - 3.30	16/05/2014
9327410	TPE 383		4.40 - 4.40	16/05/2014
9327414	TPE 384		0.50 - 0.50	16/05/2014
9327424	TPE 384		1.10 - 1.10	16/05/2014
9327438	TPE 384		2.20 - 2.20	16/05/2014
9327442	TPE 384		3.30 - 3.30	16/05/2014
9327448	TPE 384		4.40 - 4.40	16/05/2014
9327572	TPE 385		0.30 - 0.30	16/05/2014
9327576	TPE 385		1.30 - 1.30	16/05/2014
9327581	TPE 385		2.30 - 2.30	16/05/2014
9327585	TPE 385		3.30 - 3.30	16/05/2014
9327590	TPE 385		4.30 - 4.30	16/05/2014
9327451	TPE 386		0.50 - 0.50	16/05/2014
9327458	TPE 386		1.30 - 1.30	16/05/2014
9327462	TPE 386		2.30 - 2.30	16/05/2014
9327467	TPE 386		3.30 - 3.30	16/05/2014
9327473	TPE 386		4.30 - 4.30	16/05/2014
9327481	TPE 387		0.20 - 0.20	16/05/2014
9327486	TPE 387		1.00 - 1.00	16/05/2014
9327501	TPE 387		2.00 - 2.00	16/05/2014
9327505	TPE 387		3.00 - 3.00	16/05/2014
9327509	TPE 387		4.00 - 4.00	16/05/2014
9327516	TPE 387		4.90 - 4.90	16/05/2014
9327521	TPE 388		0.50 - 0.50	16/05/2014
9327525	TPE 388		1.20 - 1.20	16/05/2014
9327530	TPE 388		2.30 - 2.30	16/05/2014
9327534	TPE 388		3.10 - 3.10	16/05/2014



CERTIFICATE OF ANALYSIS

SDG:	140522-119	Location:	Coed Darcy	Order Number:	CD0678
Job:	H_ATKINS_LDC-208	Customer:	Atkins Global Ltd	Report Number:	272711
Client Reference:	TP East	Attention:	Jack Lowrie	Superseded Report:	
9327538	TPE 388			4.30 - 4.30	16/05/2014
9327543	TPE 389			0.50 - 0.50	16/05/2014
9327552	TPE 389			1.30 - 1.30	16/05/2014
9327557	TPE 389			2.30 - 2.30	16/05/2014
9327564	TPE 389			3.30 - 3.30	16/05/2014
9327568	TPE 389			4.30 - 4.30	16/05/2014

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



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

SOLID**Results Legend**

Test

No Determination
Possible**Lab Sample No(s)****Customer
Sample Reference****AGS Reference****Depth (m)****Container**

	9327333	TPE 340		2.00 - 2.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327328	TPE 340		1.00 - 1.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327296	TPE 340		0.30 - 0.30	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327300	TPE 333		5.00 - 5.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327602	TPE 333		4.00 - 4.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327594	TPE 333		3.00 - 3.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327548	TPE 333		2.00 - 2.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327493	TPE 333		1.00 - 1.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327431	TPE 333		0.20 - 0.20	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327323	TPE 282		3.70 - 3.70	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327318	TPE 282		3.00 - 3.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327313	TPE 282		2.00 - 2.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327308	TPE 282		1.00 - 1.00	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
	9327304	TPE 282		0.20 - 0.20	250g Amber Jar (AL 60g VOC (ALE215) 400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 17	X	X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 62	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 62	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 62	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 62	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 62	X	X	X
pH	All	NDPs: 0 Tests: 62	X	X	X
Sample description	All	NDPs: 0 Tests: 62	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 22		X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 62	X	X	X



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

SOLID**Results Legend**

Test



No Determination Possible

SOLID Results Legend X Test N No Determination Possible	Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
	9327392	TPE 383		0.10 - 0.10	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))
	9327388	TPE 382		5.00 - 5.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))
	9327394	TPE 382		4.00 - 4.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))
	9327380	TPE 382		3.00 - 3.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))
9327370	TPE 382		2.00 - 2.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
9327365	TPE 382		1.00 - 1.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
9327360	TPE 382		0.30 - 0.30	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
9327356	TPE 381		5.00 - 5.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
9327351	TPE 381		4.00 - 4.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
9327347	TPE 381		3.00 - 3.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
9327342	TPE 381		2.00 - 2.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
9327338	TPE 380		0.50 - 0.50	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
9327375	TPE 340		2.90 - 2.90	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
9327333	TPE 340		2.00 - 2.00	400g Tub (ALE214) 250g Amber Jar (AL 60g VOC (ALE215))	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 17			
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 62			
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 62			
GRO by GC-FID (S)	All	NDPs: 0 Tests: 62			
Metals in solid samples by OES	All	NDPs: 0 Tests: 62			
PAH by GCMS	All	NDPs: 0 Tests: 62			
pH	All	NDPs: 0 Tests: 62			
Sample description	All	NDPs: 0 Tests: 62			
Total Organic Carbon	All	NDPs: 0 Tests: 22			
TPH CWG GC (S)	All	NDPs: 0 Tests: 62			

Validated

Order Number: CD0678
Report Number: 272711
Superseded Report:



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

SOLID**Results Legend**

Test



No Determination Possible

Lab Sample No(s)**Customer Sample Reference****AGS Reference****Depth (m)****Container**

			9327525	TPE 388		1.20 - 1.20	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327521	TPE 388		0.50 - 0.50	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327516	TPE 387		4.90 - 4.90	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327509	TPE 387		4.00 - 4.00	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327505	TPE 387		3.00 - 3.00	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327501	TPE 387		2.00 - 2.00	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327486	TPE 387		1.00 - 1.00	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327481	TPE 387		0.20 - 0.20	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327473	TPE 386		4.30 - 4.30	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327467	TPE 386		3.30 - 3.30	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327462	TPE 386		2.30 - 2.30	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327458	TPE 386		1.30 - 1.30	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327451	TPE 386		0.50 - 0.50	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
			9327590	TPE 385		4.30 - 4.30	60g VOC (ALE215) 400g Tub (ALE214) 250g Amber Jar (AL)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 17					
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 62					
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 62					
GRO by GC-FID (S)	All	NDPs: 0 Tests: 62					
Metals in solid samples by OES	All	NDPs: 0 Tests: 62					
PAH by GCMS	All	NDPs: 0 Tests: 62					
pH	All	NDPs: 0 Tests: 62					
Sample description	All	NDPs: 0 Tests: 62					
Total Organic Carbon	All	NDPs: 0 Tests: 22					
TPH CWG GC (S)	All	NDPs: 0 Tests: 62					



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

SOLID**Results Legend**

Test

No Determination
Possible**Lab Sample No(s)****Customer
Sample Reference****AGS Reference****Depth (m)****Container**

9327530

9327534

9327538

9327543

9327552

9327557

9327564

9327568

TPE 388

TPE 388

TPE 388

TPE 389

TPE 389

TPE 389

TPE 389

TPE 389

2.30 - 2.30

3.10 - 3.10

4.30 - 4.30

0.50 - 0.50

1.30 - 1.30

2.30 - 2.30

3.30 - 3.30

4.30 - 4.30

60g VOC (ALE215)
400g Tub (ALE214)
250g Amber Jar (AL60g VOC (ALE215)
400g Tub (ALE214)
250g Amber Jar (AL60g VOC (ALE215)
400g Tub (ALE214)
250g Amber Jar (AL60g VOC (ALE215)
400g Tub (ALE214)
250g Amber Jar (AL60g VOC (ALE215)
400g Tub (ALE214)
250g Amber Jar (AL60g VOC (ALE215)
400g Tub (ALE214)
250g Amber Jar (AL60g VOC (ALE215)
400g Tub (ALE214)
250g Amber Jar (AL60g VOC (ALE215)
400g Tub (ALE214)
250g Amber Jar (AL

Asbestos ID in Solid Samples

All

NDPs: 0
Tests: 17

X

EPH CWG (Aliphatic) GC (S)

All

NDPs: 0
Tests: 62

X

X

X

X

X

X

X

X

EPH CWG (Aromatic) GC (S)

All

NDPs: 0
Tests: 62

X

X

X

X

X

X

X

X

GRO by GC-FID (S)

All

NDPs: 0
Tests: 62

X

X

X

X

X

X

X

X

X

Metals in solid samples by OES

All

NDPs: 0
Tests: 62

X

X

X

X

X

X

X

X

PAH by GCMS

All

NDPs: 0
Tests: 62

X

X

X

X

X

X

X

X

pH

All

NDPs: 0
Tests: 62

X

X

X

X

X

X

X

X

X

Sample description

All

NDPs: 0
Tests: 62

X

X

X

X

X

X

X

X

Total Organic Carbon

All

NDPs: 0
Tests: 22

X

X

X

X

TPH CWG GC (S)

All

NDPs: 0
Tests: 62

X

X

X

X

X

X

X

X



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
-----------	----------	------	-----------------	--------	-------------	--------	------------	-------------	-------

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Grain size	Inclusions	Inclusions 2
9327304	TPE 282	0.20 - 0.20	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
9327308	TPE 282	1.00 - 1.00	Beige	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9327313	TPE 282	2.00 - 2.00	Grey	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum
9327318	TPE 282	3.00 - 3.00	Grey	Loamy Sand	0.1 - 2 mm	Stones	None
9327323	TPE 282	3.70 - 3.70	Grey	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9327300	TPE 333	5.00 - 5.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
9327431	TPE 333	0.20 - 0.20	Beige	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9327493	TPE 333	1.00 - 1.00	Beige	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9327548	TPE 333	2.00 - 2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9327594	TPE 333	3.00 - 3.00	Grey	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum
9327602	TPE 333	4.00 - 4.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum
9327296	TPE 340	0.30 - 0.30	Beige	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
9327328	TPE 340	1.00 - 1.00	Beige	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9327333	TPE 340	2.00 - 2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9327375	TPE 340	2.90 - 2.90	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9327338	TPE 380	0.50 - 0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Brick
9327342	TPE 381	2.00 - 2.00	Light Brown	Sandy Silt Loam	0.063 - 0.1 mm	N/A	N/A
9327347	TPE 381	3.00 - 3.00	Dark Brown	Sandy Clay Loam	0.063 - 0.1 mm	N/A	N/A
9327351	TPE 381	4.00 - 4.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
9327356	TPE 381	5.00 - 5.00	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
9327360	TPE 382	0.30 - 0.30	Black	Loamy Sand	0.1 - 2 mm	Stones	None
9327365	TPE 382	1.00 - 1.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
9327370	TPE 382	2.00 - 2.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
9327380	TPE 382	3.00 - 3.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
9327384	TPE 382	4.00 - 4.00	Dark Brown	Silty Clay Loam	0.1 - 2 mm	Stones	N/A
9327388	TPE 382	5.00 - 5.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
9327392	TPE 383	0.10 - 0.10	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9327396	TPE 383	1.10 - 1.10	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
9327402	TPE 383	2.20 - 2.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
9327406	TPE 383	3.30 - 3.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
9327410	TPE 383	4.40 - 4.40	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	N/A
9327414	TPE 384	0.50 - 0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9327424	TPE 384	1.10 - 1.10	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9327438	TPE 384	2.20 - 2.20	Beige	Sandy Clay Loam	0.1 - 2 mm	Brick	Stones
9327442	TPE 384	3.30 - 3.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9327448	TPE 384	4.40 - 4.40	Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
9327572	TPE 385	0.30 - 0.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9327576	TPE 385	1.30 - 1.30	Light Brown	Silty Clay	0.063 - 0.1 mm	Vegetation	None



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

			Colour	Description	Grain size	Inclusions	Inclusions 2
9327581	TPE 385	2.30 - 2.30	Light Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
9327585	TPE 385	3.30 - 3.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9327590	TPE 385	4.30 - 4.30	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
9327451	TPE 386	0.50 - 0.50	Yellow	Silty Clay Loam	<0.063 mm	Stones	N/A
9327458	TPE 386	1.30 - 1.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9327462	TPE 386	2.30 - 2.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9327467	TPE 386	3.30 - 3.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
9327473	TPE 386	4.30 - 4.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9327481	TPE 387	0.20 - 0.20	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9327486	TPE 387	1.00 - 1.00	Light Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9327501	TPE 387	2.00 - 2.00	Beige	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9327505	TPE 387	3.00 - 3.00	Beige	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9327509	TPE 387	4.00 - 4.00	Beige	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9327516	TPE 387	4.90 - 4.90	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
9327521	TPE 388	0.50 - 0.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9327525	TPE 388	1.20 - 1.20	Beige	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9327530	TPE 388	2.30 - 2.30	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
9327534	TPE 388	3.10 - 3.10	Grey	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Stones
9327538	TPE 388	4.30 - 4.30	Beige	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
9327543	TPE 389	0.50 - 0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9327552	TPE 389	1.30 - 1.30	Beige	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
9327557	TPE 389	2.30 - 2.30	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Oil/Petroleum	Stones
9327564	TPE 389	3.30 - 3.30	Beige	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9327568	TPE 389	4.30 - 4.30	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Oil/Petroleum

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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CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

Results Legend		Customer Sample R	TPE 333		TPE 333		TPE 333		TPE 333		TPE 340				
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	1.00 - 1.00		2.00 - 2.00		3.00 - 3.00		4.00 - 4.00		5.00 - 5.00		0.30 - 0.30	
M	mCERTS accredited.			Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.			15/05/2014		15/05/2014		15/05/2014		15/05/2014		15/05/2014		15/05/2014	
diss.filt	Dissolved / filtered sample.			-		-		-		-		-		-	
tot.unfilt	Total / unfiltered sample.			22/05/2014		22/05/2014		22/05/2014		22/05/2014		22/05/2014		22/05/2014	
*	Subcontracted test.			140522-119		140522-119		140522-119		140522-119		140522-119		140522-119	
**	% 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			9327493		9327548		9327594		9327602		9327300		9327296	
(F)	Trigger breach confirmed														
1-5&*\$@	Sample deviation (see appendix)														
Component	LOD/Units	Method	TPE 333		TPE 333		TPE 333		TPE 333		TPE 340				
Moisture Content Ratio	%	PM024	16		18		11		12		11		9.5		
Soil Organic Matter (SOM)	<0.35 %	TM132			2.48						1.17		2.24		
pH	1 pH Units	TM133	5.39		5.98		5.61		5.83		6.38		8.08		
Arsenic	<0.6 mg/kg	TM181	20.4		11.9		7.59		7.6		7.37		11.3		
Cadmium	<0.02 mg/kg	TM181	0.428		0.221		0.182		0.248		0.157		0.288		
Chromium	<0.9 mg/kg	TM181	12.4		13.6		10.6		9.73		10.5		14.3		
Copper	<1.4 mg/kg	TM181	27.4		16.1		10.3		15		9.26		19.7		
Lead	<0.7 mg/kg	TM181	17.8		15.9		12.3		13.5		11.9		59.9		
Mercury	<0.14 mg/kg	TM181	<0.14		<0.14		<0.14		<0.14		<0.14		<0.14		
Nickel	<0.2 mg/kg	TM181	14.6		14.8		27.3		24.3		26.3		29.9		
Selenium	<1 mg/kg	TM181	<1		<1		<1		<1		<1		<1		
Vanadium	<0.2 mg/kg	TM181	16.3		17.4		12.2		10.9		12.6		15.1		
Zinc	<1.9 mg/kg	TM181	55.9		48.5		62.9		59.1		59.6		90.1		

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CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

[illegible]

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Report Number: 272711
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SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

PAH by GCMS

[illegible]

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Owner:	Atkins Global Ltd	Report Number:	272711
Location:	Jack Lowrie	Superseded Report:	

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

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Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

PAH by GCMS

[illegible]

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

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Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

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Report Number: 272711
Superseded Report:

[illegible]



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 282		TPE 282		TPE 282		TPE 282		TPE 333	
#	ISO17025 accredited.		TPE 282		TPE 282		TPE 282		TPE 282		TPE 333	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	0.20 - 0.20 Soil/Solid 15/05/2014		1.00 - 1.00 Soil/Solid 15/05/2014		2.00 - 2.00 Soil/Solid 15/05/2014		3.00 - 3.00 Soil/Solid 15/05/2014		3.70 - 3.70 Soil/Solid 15/05/2014	
aq	Aqueous / settled sample.		22/05/2014 140522-119 9327304		22/05/2014 140522-119 9327308		22/05/2014 140522-119 9327313		22/05/2014 140522-119 9327318		22/05/2014 140522-119 9327323	
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)											
Component	LOD/Units	Method	TPE 282		TPE 282		TPE 282		TPE 282		TPE 333	
GRO Surrogate % recovery**	%	TM089	62 @		99 @		132 @		127 @		78 @	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	3830 @ M		644000 @ M		469000 @ M		109000 @ M		67400 @ M	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 @ M		<50 @ M		<100 @ M		<25 @ M		<5 @ M	
Benzene	<10 µg/kg	TM089	<10 @ M		<100 @ M		<200 @ M		<50 @ M		27.5 @ M	
Toluene	<2 µg/kg	TM089	4.88 @ M		<20 @ M		<40 @ M		<10 @ M		<2 @ M	
Ethylbenzene	<3 µg/kg	TM089	<3 @ M		<30 @ M		<60 @ M		<15 @ M		<3 @ M	
m,p-Xylene	<6 µg/kg	TM089	<6 @ M		<60 @ M		<120 @ M		<30 @ M		<6 @ M	
o-Xylene	<3 µg/kg	TM089	<3 @ M		<30 @ M		<60 @ M		<15 @ M		<3 @ M	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9 @		<9 @		<180 @		<9 @		<9 @	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24 @		<24 @		<480 @		<24 @		27.5 @	
Aliphatics >C5-C6	<10 µg/kg	TM089	17.1 @		415 @		1180 @		961 @		617 @	
Aliphatics >C6-C8	<10 µg/kg	TM089	80.5 @		16000 @		25400 @		12500 @		9290 @	
Aliphatics >C8-C10	<10 µg/kg	TM089	772 @		241000 @		147000 @		34600 @		22800 @	
Aliphatics >C10-C12	<10 µg/kg	TM089	1460 @		135000 @		118000 @		22600 @		11600 @	
Aliphatics >C12-C16	<100 µg/kg	TM173	9340		1680000		225000		34300		52700	
Aliphatics >C16-C21	<100 µg/kg	TM173	26900		210000		25200		3310		6310	
Aliphatics >C21-C35	<100 µg/kg	TM173	21500		56900		13500		<100		<100	
Aliphatics >C35-C44	<100 µg/kg	TM173	705		8000		2030		149		<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	58400		1950000		266000		37800		59100	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @		<100 @		<200 @		<50 @		27.5 @	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @		<100 @		<200 @		<50 @		<10 @	
Aromatics >EC8-EC10	<10 µg/kg	TM089	517 @		161000 @		98200 @		23100 @		15200 @	
Aromatics >EC10-EC12	<10 µg/kg	TM089	974 @		90200 @		78800 @		15100 @		7760 @	
Aromatics >EC12-EC16	<100 µg/kg	TM173	2790		394000		56200		9120		9390	
Aromatics >EC16-EC21	<100 µg/kg	TM173	17700		79200		11700		1920		2430	
Aromatics >EC21-EC35	<100 µg/kg	TM173	41200		47100		12800		<100		1150	
Aromatics >EC35-EC44	<100 µg/kg	TM173	11600		8500		3310		807		988	
Aromatics >EC40-EC44	<100 µg/kg	TM173	3750		1900		965		138		408	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	73400		528000		84000		11800		13900	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	136000		3130000		819000		158000		140000	



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 333		TPE 333		TPE 333		TPE 333		TPE 340	
#	ISO17025 accredited.		1.00 - 1.00	2.00 - 2.00	3.00 - 3.00	4.00 - 4.00	5.00 - 5.00	0.30 - 0.30				
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid				
aq	Aqueous / settled sample.		15/05/2014	15/05/2014	15/05/2014	15/05/2014	15/05/2014	15/05/2014				
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											
(F)	Trigger breach confirmed											
1-5&\$@	Sample deviation (see appendix)											
Component	LOD/Units	Method	TPE 333		TPE 333		TPE 333		TPE 333		TPE 340	
GRO Surrogate % recovery**	%	TM089	122	134	149	309	143	153				
			@	@	@	@	@	@				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	143000	153000	504000	378000	1030000	71400				
			@ M	@ M	@ M	@ M	@ M	@ M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<50	<25	<100	<5	<100	<5				
			@ M	@ M	@ M	@ M	@ M	@ M				
Benzene	<10 µg/kg	TM089	<100	<50	<200	59.3	<200	12.1				
			@ M	@ M	@ M	@ M	@ M	@ M				
Toluene	<2 µg/kg	TM089	<20	<10	<40	<2	<40	<2				
			@ M	@ M	@ M	@ M	@ M	@ M				
Ethylbenzene	<3 µg/kg	TM089	<30	<15	<60	<3	<60	<3				
			@ M	@ M	@ M	@ M	@ M	@ M				
m,p-Xylene	<6 µg/kg	TM089	<60	<30	<120	<6	<120	<6				
			@ M	@ M	@ M	@ M	@ M	@ M				
o-Xylene	<3 µg/kg	TM089	<30	<15	<60	<3	<60	<3				
			@ M	@ M	@ M	@ M	@ M	@ M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<90	<9	<180	<9	<180	<9				
			@	@	@	@	@	@				
sum of detected BTEX by GC	<24 µg/kg	TM089	<240	<24	<480	59.3	<480	<24				
			@	@	@	@	@	@				
Aliphatics >C5-C6	<10 µg/kg	TM089	<100	261	512	1340	1800	18.7				
			@	@	@	@	@	@				
Aliphatics >C6-C8	<10 µg/kg	TM089	1080	33100	124000	115000	168000	7960				
			@	@	@	@	@	@				
Aliphatics >C8-C10	<10 µg/kg	TM089	39300	39500	123000	90200	213000	27600				
			@	@	@	@	@	@				
Aliphatics >C10-C12	<10 µg/kg	TM089	46100	32600	104000	61000	304000	10400				
			@	@	@	@	@	@				
Aliphatics >C12-C16	<100 µg/kg	TM173	341000	8790	522000	317000	374000	4020				
Aliphatics >C16-C21	<100 µg/kg	TM173	465000	4480	174000	51500	70300	<100				
Aliphatics >C21-C35	<100 µg/kg	TM173	3910	<100	12500	1350	<100	2380				
Aliphatics >C35-C44	<100 µg/kg	TM173	314	<100	1810	<100	<100	816				
Total Aliphatics >C12-C44	<100 µg/kg	TM173	810000	13300	710000	370000	444000	7220				
Aromatics >EC5-EC7	<10 µg/kg	TM089	<100	51.7	202	59.3	<200	12.1				
			@	@	@	@	@	@				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<100	<50	<200	<10	<200	<10				
			@	@	@	@	@	@				
Aromatics >EC8-EC10	<10 µg/kg	TM089	26200	26300	82100	60100	142000	18400				
			@	@	@	@	@	@				
Aromatics >EC10-EC12	<10 µg/kg	TM089	30700	21700	69600	40700	203000	6960				
			@	@	@	@	@	@				
Aromatics >EC12-EC16	<100 µg/kg	TM173	88700	3110	88100	75700	90800	1600				
Aromatics >EC16-EC21	<100 µg/kg	TM173	123000	943	40400	19700	22300	2440				
Aromatics >EC21-EC35	<100 µg/kg	TM173	2580	362	11400	2690	1960	12700				
Aromatics >EC35-EC44	<100 µg/kg	TM173	1200	1920	4950	1440	967	5730				
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	905	1980	184	166	2220				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	216000	6330	145000	99600	116000	22500				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1170000	173000	1360000	837000	1590000	101000				



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		TPE 340	TPE 340	TPE 340	TPE 380	TPE 381	TPE 381
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		1.00 - 1.00	2.00 - 2.00	2.90 - 2.90	0.50 - 0.50	2.00 - 2.00	3.00 - 3.00
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.				15/05/2014	15/05/2014	15/05/2014	15/05/2014	15/05/2014	15/05/2014
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									
(F)	Trigger breach confirmed									
1-5&*\$@	Sample deviation (see appendix)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089	30	@	23	@	121	@	91	@
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	247	@ M	1590	@ M	65800	@ M	18900	@ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	@ M	<5	@ M	<50	@ M	<5	@ M
Benzene	<10 µg/kg	TM089	<10	@ M	<10	@ M	<100	@ M	<10	@ M
Toluene	<2 µg/kg	TM089	<2	@ M	<2	@ M	<20	@ M	<2	@ M
Ethylbenzene	<3 µg/kg	TM089	<3	@ M	<3	@ M	<30	@ M	<3	@ M
m,p-Xylene	<6 µg/kg	TM089	<6	@ M	<6	@ M	<60	@ M	<6	@ M
o-Xylene	<3 µg/kg	TM089	<3	@ M	<3	@ M	<30	@ M	<3	@ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	@	<9	@	<9	@	<9	@
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	@	<24	@	<24	@	<24	@
Aliphatics >C5-C6	<10 µg/kg	TM089	13.6	@	94.4	@	302	@	12.3	@
Aliphatics >C6-C8	<10 µg/kg	TM089	145	@	982	@	393	@	82.4	@
Aliphatics >C8-C10	<10 µg/kg	TM089	32.8	@	246	@	7360	@	4270	@
Aliphatics >C10-C12	<10 µg/kg	TM089	19.2	@	51.1	@	31700	@	6950	@
Aliphatics >C12-C16	<100 µg/kg	TM173	<100		<100		<100		505000	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	<100		<100		<100		704000	850000
Aliphatics >C21-C35	<100 µg/kg	TM173	<100		<100		<100		8740	68000
Aliphatics >C35-C44	<100 µg/kg	TM173	<100		<100		<100		1580	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100		<100		<100		15900	1280000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	@	<10	@	<100	@	<10	@
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	@	<10	@	<100	@	<10	@
Aromatics >EC8-EC10	<10 µg/kg	TM089	22.6	@	167	@	4910	@	2920	@
Aromatics >EC10-EC12	<10 µg/kg	TM089	12.4	@	34.4	@	21100	@	4630	@
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100		<100		219		2360	30800
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100		<100		251		13900	108000
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100		<100		664		63100	21900
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100		<100		1700		33200	1990
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100		<100		586		10900	878
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100		<100		2830		113000	163000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	210		1590		68600		129000	1460000



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		TPE 381	TPE 381	TPE 382	TPE 382	TPE 382	TPE 382
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		4.00 - 4.00	5.00 - 5.00	0.30 - 0.30	1.00 - 1.00	2.00 - 2.00	3.00 - 3.00
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.				15/05/2014	15/05/2014	16/05/2014	16/05/2014	16/05/2014	16/05/2014
diss.filt	Dissolved / filtered sample.				22/05/2014	22/05/2014	22/05/2014	22/05/2014	22/05/2014	22/05/2014
tot.unfilt	Total / unfiltered sample.				140522-119	140522-119	140522-119	140522-119	140522-119	140522-119
*	Subcontracted test.				9327351	9327356	9327360	9327365	9327370	9327380
**	% 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)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			109 @	96 @	39 @	76 @	103 @	42 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089			485 @ M	582 @ M	124 @ M	8020 @ M	15400 @ M	466 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089			<5 @ M	<5 @ M	<5 @ M	<5 @ M	<5 @ M	<5 @ M
Benzene	<10 µg/kg	TM089			<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M
Toluene	<2 µg/kg	TM089			<2 @ M	<2 @ M	5.12 @ M	<2 @ M	<2 @ M	<2 @ M
Ethylbenzene	<3 µg/kg	TM089			<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M
m,p-Xylene	<6 µg/kg	TM089			<6 @ M	<6 @ M	<6 @ M	<6 @ M	<6 @ M	<6 @ M
o-Xylene	<3 µg/kg	TM089			<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089			<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089			<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089			<10 @	12.4 @	<10 @	<10 @	15.8 @	30.2 @
Aliphatics >C6-C8	<10 µg/kg	TM089			34.8 @	189 @	11.5 @	277 @	237 @	34.7 @
Aliphatics >C8-C10	<10 µg/kg	TM089			96.3 @	139 @	30.7 @	2380 @	2870 @	30.2 @
Aliphatics >C10-C12	<10 µg/kg	TM089			168 @	85.9 @	23 @	2260 @	6200 @	208 @
Aliphatics >C12-C16	<100 µg/kg	TM173			1840	2540	1330	63400	711000	<100
Aliphatics >C16-C21	<100 µg/kg	TM173			1490	2040	8770	134000	784000	24600
Aliphatics >C21-C35	<100 µg/kg	TM173			<100	<100	4470	15200	50300	<100
Aliphatics >C35-C44	<100 µg/kg	TM173			<100	<100	1720	1270	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173			3330	4580	16300	214000	1550000	24600
Aromatics >EC5-EC7	<10 µg/kg	TM089			<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089			<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089			66.1 @	96.1 @	28.2 @	1590 @	1910 @	21.3 @
Aromatics >EC10-EC12	<10 µg/kg	TM089			113 @	56.5 @	15.4 @	1510 @	4130 @	139 @
Aromatics >EC12-EC16	<100 µg/kg	TM173			<100	<100	<100	5050	119000	1780
Aromatics >EC16-EC21	<100 µg/kg	TM173			<100	<100	1150	23200	179000	4760
Aromatics >EC21-EC35	<100 µg/kg	TM173			<100	<100	<100	8060	19400	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173			<100	<100	1280	5560	<100	263
Aromatics >EC40-EC44	<100 µg/kg	TM173			<100	<100	521	561	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			<100	<100	2430	41900	317000	6800
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			3810	4580	18800	263000	1860000	31400



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 382		TPE 382		TPE 383		TPE 383		TPE 383		TPE 383	
#	ISO17025 accredited.		4.00 - 4.00		5.00 - 5.00		0.10 - 0.10		1.10 - 1.10		2.20 - 2.20		3.30 - 3.30	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.		16/05/2014		16/05/2014		16/05/2014		16/05/2014		16/05/2014		16/05/2014	
diss.filt	Dissolved / filtered 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	22/05/2014		22/05/2014		22/05/2014		22/05/2014		22/05/2014		22/05/2014	
tot.unfilt	Total / unfiltered sample.		140522-119		140522-119		140522-119		140522-119		140522-119		140522-119	
*	Subcontracted test.	Trigger breach confirmed	9327384		9327388		9327392		9327396		9327402		9327406	
**	% 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)												
1-5&*&@	Sample deviation (see appendix)													
Component	LOD/Units	Method												
GRO Surrogate % recovery**	%	TM089	67		82		71		71		45		29	
			@		@		@		@		@		@	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	13000		6260		<44		2950		2960		5320	
			@ M		@ M		@ M		@ M		@ M		@ M	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5		<5		<5		<5		<5		<5	
			@ M		@ M		@ M		@ M		@ M		@ M	
Benzene	<10 µg/kg	TM089	<10		<10		<10		<10		<10		<10	
			@ M		@ M		@ M		@ M		@ M		@ M	
Toluene	<2 µg/kg	TM089	<2		6.66		<2		<2		2.24		2.24	
			@ M		@ M		@ M		@ M		@ M		@ M	
Ethylbenzene	<3 µg/kg	TM089	<3		20		<3		<3		<3		<3	
			@ M		@ M		@ M		@ M		@ M		@ M	
m,p-Xylene	<6 µg/kg	TM089	<6		9.99		<6		<6		<6		<6	
			@ M		@ M		@ M		@ M		@ M		@ M	
o-Xylene	<3 µg/kg	TM089	<3		<3		<3		<3		<3		<3	
			@ M		@ M		@ M		@ M		@ M		@ M	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9		9.99		<9		<9		<9		<9	
			@		@		@		@		@		@	
sum of detected BTEX by GC	<24 µg/kg	TM089	<24		36.7		<24		<24		<24		<24	
			@		@		@		@		@		@	
Aliphatics >C5-C6	<10 µg/kg	TM089	17		12.2		<10		<10		31.4		<10	
			@		@		@		@		@		@	
Aliphatics >C6-C8	<10 µg/kg	TM089	284		102		<10		29.9		57.1		38.1	
			@		@		@		@		@		@	
Aliphatics >C8-C10	<10 µg/kg	TM089	3990		1600		<10		309		390		310	
			@		@		@		@		@		@	
Aliphatics >C10-C12	<10 µg/kg	TM089	3650		2060		<10		1440		1330		2850	
			@		@		@		@		@		@	
Aliphatics >C12-C16	<100 µg/kg	TM173	3780		12200		<100		105000		682000		1670	
Aliphatics >C16-C21	<100 µg/kg	TM173	7630		15400		<100		172000		968000		4150	
Aliphatics >C21-C35	<100 µg/kg	TM173	<100		1640		1740		15800		88800		<100	
Aliphatics >C35-C44	<100 µg/kg	TM173	<100		<100		<100		<100		<100		<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	11400		29200		1740		292000		1740000		5830	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10		<10		<10		<10		<10		<10	
			@		@		@		@		@		@	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10		<10		<10		<10		<10		<10	
			@		@		@		@		@		@	
Aromatics >EC8-EC10	<10 µg/kg	TM089	2660		1100		<10		209		263		211	
			@		@		@		@		@		@	
Aromatics >EC10-EC12	<10 µg/kg	TM089	2430		1380		<10		958		886		1900	
			@		@		@		@		@		@	
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100		<100		<100		9000		42900		<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100		<100		<100		26800		112000		<100	
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100		<100		<100		2320		20900		<100	
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100		<100		<100		<100		<100		<100	
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100		<100		<100		<100		<100		<100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100		<100		<100		38100		176000		<100	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	24400		29200		1740		333000		1910000		11100	



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 383		TPE 384		TPE 384		TPE 384		TPE 384	
#	ISO17025 accredited.		4.40 - 4.40		0.50 - 0.50		1.10 - 1.10		2.20 - 2.20		3.30 - 3.30	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid		Soil/Solid	
aq	Aqueous / settled sample.		16/05/2014		16/05/2014		16/05/2014		16/05/2014		16/05/2014	
diss.filt	Dissolved / filtered sample.		22/05/2014		22/05/2014		22/05/2014		22/05/2014		22/05/2014	
tot.unfilt	Total / unfiltered sample.		140522-119		140522-119		140522-119		140522-119		140522-119	
*	Subcontracted test.		9327410		9327414		9327424		9327438		9327442	
**	% 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)											
Component	LOD/Units	Method										
GRO Surrogate % recovery**	%	TM089	18	@	102	@	108	@	104	@	74	@
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	1770	@ M	<44	@ M	<44	@ M	261	@ M	1530	@ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	@ M	<5	@ M	<5	@ M	<5	@ M	<5	@ M
Benzene	<10 µg/kg	TM089	<10	@ M	<10	@ M	<10	@ M	<10	@ M	<10	@ M
Toluene	<2 µg/kg	TM089	<2	@ M	<2	@ M	<2	@ M	<2	@ M	<2	@ M
Ethylbenzene	<3 µg/kg	TM089	<3	@ M	<3	@ M	<3	@ M	3.39	@ M	<3	@ M
m,p-Xylene	<6 µg/kg	TM089	<6	@ M	<6	@ M	<6	@ M	<6	@ M	<6	@ M
o-Xylene	<3 µg/kg	TM089	<3	@ M	<3	@ M	<3	@ M	<3	@ M	<3	@ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	@	<9	@	<9	@	<9	@	<9	@
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	@	<24	@	<24	@	<24	@	<24	@
Aliphatics >C5-C6	<10 µg/kg	TM089	33.1	@	<10	@	<10	@	<10	@	66.1	@
Aliphatics >C6-C8	<10 µg/kg	TM089	39.9	@	<10	@	<10	@	68.9	@	683	@
Aliphatics >C8-C10	<10 µg/kg	TM089	95.8	@	10.2	@	<10	@	53.1	@	316	@
Aliphatics >C10-C12	<10 µg/kg	TM089	922	@	10.2	@	<10	@	50.9	@	147	@
Aliphatics >C12-C16	<100 µg/kg	TM173	224000		8870		<100		15600		1350	
Aliphatics >C16-C21	<100 µg/kg	TM173	373000		31500		<100		30100		2590	
Aliphatics >C21-C35	<100 µg/kg	TM173	41200		1320		<100		1810		5380	
Aliphatics >C35-C44	<100 µg/kg	TM173	<100		<100		<100		<100		1010	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	638000		41700		<100		47500		10300	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	@	<10	@	<10	@	<10	@	<10	@
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	@	<10	@	<10	@	<10	@	<10	@
Aromatics >EC8-EC10	<10 µg/kg	TM089	66.1	@	11.3	@	<10	@	42.9	@	211	@
Aromatics >EC10-EC12	<10 µg/kg	TM089	614	@	<10	@	<10	@	33.9	@	98	@
Aromatics >EC12-EC16	<100 µg/kg	TM173	11500		747		<100		945		<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	42800		4540		<100		4820		<100	
Aromatics >EC21-EC35	<100 µg/kg	TM173	9760		<100		<100		<100		4050	
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100		<100		<100		<100		694	
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100		<100		<100		<100		<100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	64100		5280		<100		5760		4750	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	704000		47000		<100		53600		16600	



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R						
#	ISO17025 accredited.							
M	mCERTS accredited.	Depth (m)						
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Sample Type						
tot.unfilt	Total / unfiltered sample.							
*	Subcontracted test.	Date Sampled						
**	% 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	Date Received						
1-5&\$@	Sample deviation (see appendix)							
		Lab Sample No.(s)						
		AGS Reference						
Component	LOD/Units	Method	TPE 385	TPE 385	TPE 385	TPE 385	TPE 385	TPE 386
GRO Surrogate % recovery**	%	TM089	106 @	88 @	76 @	77 @	47 @	79 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<44 @ M	<44 @ M	<44 @ M	114 @ M	685 @ M	82.8 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 @ M	<5 @ M	<5 @ M	<5 @ M	<5 @ M	<5 @ M
Benzene	<10 µg/kg	TM089	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M
Toluene	<2 µg/kg	TM089	<2 @ M	<2 @ M	<2 @ M	<2 @ M	2.2 @ M	<2 @ M
Ethylbenzene	<3 µg/kg	TM089	<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M
m,p-Xylene	<6 µg/kg	TM089	<6 @ M	<6 @ M	<6 @ M	<6 @ M	<6 @ M	<6 @ M
o-Xylene	<3 µg/kg	TM089	<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089	<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	31.9 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	12.5 @	46.2 @	<10 @
Aliphatics >C8-C10	<10 µg/kg	TM089	<10 @	<10 @	<10 @	27.4 @	70.4 @	21.6 @
Aliphatics >C10-C12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	25.1 @	288 @	18 @
Aliphatics >C12-C16	<100 µg/kg	TM173	<100	<100	<100	779	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173	<100	<100	<100	1030	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	<100	<100	971	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100	<100	<100	2780	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10 @	<10 @	12.4 @	26.2 @	52.8 @	18 @
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10 @	<10 @	<10 @	17.1 @	193 @	12 @
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	<100	<100	<100	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	1140	475	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	139	229	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	<100	1140	475	<100	<100	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	<100	1140	494	2850	685	<100



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		TPE 386	TPE 386	TPE 386	TPE 386	TPE 387	TPE 387
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		1.30 - 1.30	2.30 - 2.30	3.30 - 3.30	4.30 - 4.30	0.20 - 0.20	1.00 - 1.00
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.				16/05/2014	16/05/2014	16/05/2014	16/05/2014	16/05/2014	16/05/2014
diss.filt	Dissolved / filtered sample.				22/05/2014	22/05/2014	22/05/2014	22/05/2014	22/05/2014	22/05/2014
tot.unfilt	Total / unfiltered sample.				140522-119	140522-119	140522-119	140522-119	140522-119	140522-119
*	Subcontracted test.				9327458	9327462	9327467	9327473	9327481	9327486
**	% 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)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089			66 @	53 @	35 @	35 @	58 @	103 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089			153 @ M	94.7 @ M	146 @ M	130 @ M	261 @ M	<44 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089			<5 @ M	<5 @ M	<5 @ M	<5 @ M	<5 @ M	<5 @ M
Benzene	<10 µg/kg	TM089			<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M	<10 @ M
Toluene	<2 µg/kg	TM089			<2 @ M	2.18 @ M	2.24 @ M	2.2 @ M	<2 @ M	<2 @ M
Ethylbenzene	<3 µg/kg	TM089			<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M
m,p-Xylene	<6 µg/kg	TM089			<6 @ M	<6 @ M	<6 @ M	6.59 @ M	<6 @ M	<6 @ M
o-Xylene	<3 µg/kg	TM089			<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M	<3 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089			<9 @	<9 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089			<24 @	<24 @	<24 @	<24 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089			<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aliphatics >C6-C8	<10 µg/kg	TM089			20.9 @	18.5 @	37 @	36.3 @	53.2 @	<10 @
Aliphatics >C8-C10	<10 µg/kg	TM089			40.6 @	24 @	35.8 @	30.8 @	84.7 @	<10 @
Aliphatics >C10-C12	<10 µg/kg	TM089			30.2 @	13.1 @	17.9 @	12.1 @	33.9 @	<10 @
Aliphatics >C12-C16	<100 µg/kg	TM173			<100	<100	<100	<100	393	<100
Aliphatics >C16-C21	<100 µg/kg	TM173			<100	<100	<100	<100	338	<100
Aliphatics >C21-C35	<100 µg/kg	TM173			1590	<100	<100	<100	4710	<100
Aliphatics >C35-C44	<100 µg/kg	TM173			1140	<100	<100	<100	1620	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173			2730	<100	<100	<100	7060	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089			<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC7-EC8	<10 µg/kg	TM089			<10 @	<10 @	<10 @	<10 @	<10 @	<10 @
Aromatics >EC8-EC10	<10 µg/kg	TM089			33.6 @	25 @	33.6 @	30.8 @	61.7 @	<10 @
Aromatics >EC10-EC12	<10 µg/kg	TM089			20.9 @	<10 @	11.2 @	<10 @	23 @	<10 @
Aromatics >EC12-EC16	<100 µg/kg	TM173			<100	<100	<100	<100	501	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173			<100	<100	<100	<100	438	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173			1460	<100	<100	<100	13500	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173			920	<100	<100	<100	8890	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173			<100	<100	<100	<100	2150	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173			2380	<100	<100	<100	23300	<100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173			5260	<100	<100	<100	30700	<100



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend			Customer Sample R		TPE 387	TPE 387	TPE 387	TPE 387	TPE 388	TPE 388
#	ISO17025 accredited.		Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference		2.00 - 2.00	3.00 - 3.00	4.00 - 4.00	4.90 - 4.90	0.50 - 0.50	1.20 - 1.20
M	mCERTS accredited.				Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
aq	Aqueous / settled sample.				16/05/2014	16/05/2014	16/05/2014	16/05/2014	16/05/2014	16/05/2014
diss.filt	Dissolved / filtered sample.				22/05/2014	22/05/2014	22/05/2014	22/05/2014	22/05/2014	22/05/2014
tot.unfilt	Total / unfiltered sample.				140522-119	140522-119	140522-119	140522-119	140522-119	140522-119
*	Subcontracted test.				9327501	9327505	9327509	9327516	9327521	9327525
**	% 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)									
Component	LOD/Units	Method								
GRO Surrogate % recovery**	%	TM089	74	@	33	@	29	@	34	@
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	351	@ M	112	@ M	186	@ M	132	@ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5	@ M	<5	@ M	<5	@ M	<5	@ M
Benzene	<10 µg/kg	TM089	<10	@ M	<10	@ M	<10	@ M	<10	@ M
Toluene	<2 µg/kg	TM089	<2	@ M	<2	@ M	<2	@ M	<2	@ M
Ethylbenzene	<3 µg/kg	TM089	<3	@ M	<3	@ M	<3	@ M	<3	@ M
m,p-Xylene	<6 µg/kg	TM089	<6	@ M	<6	@ M	<6	@ M	<6	@ M
o-Xylene	<3 µg/kg	TM089	<3	@ M	<3	@ M	<3	@ M	<3	@ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	@	<9	@	<9	@	<9	@
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	@	<24	@	<24	@	<24	@
Aliphatics >C5-C6	<10 µg/kg	TM089	19.9	@	<10	@	21.7	@	<10	@
Aliphatics >C6-C8	<10 µg/kg	TM089	38.6	@	33.3	@	55.4	@	37.5	@
Aliphatics >C8-C10	<10 µg/kg	TM089	71.4	@	28.9	@	42.4	@	33.4	@
Aliphatics >C10-C12	<10 µg/kg	TM089	98.3	@	<10	@	18.5	@	13.6	@
Aliphatics >C12-C16	<100 µg/kg	TM173	<100		<100		<100		<100	
Aliphatics >C16-C21	<100 µg/kg	TM173	<100		<100		<100		<100	
Aliphatics >C21-C35	<100 µg/kg	TM173	<100		<100		<100		<100	
Aliphatics >C35-C44	<100 µg/kg	TM173	<100		<100		<100		<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	<100		<100		<100		<100	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10	@	<10	@	<10	@	<10	@
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10	@	<10	@	<10	@	<10	@
Aromatics >EC8-EC10	<10 µg/kg	TM089	57.3	@	24.4	@	30.4	@	29.2	@
Aromatics >EC10-EC12	<10 µg/kg	TM089	65.5	@	<10	@	11.9	@	<10	@
Aromatics >EC12-EC16	<100 µg/kg	TM173	<100		<100		<100		<100	
Aromatics >EC16-EC21	<100 µg/kg	TM173	<100		<100		<100		799	
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100		<100		<100		3010	
Aromatics >EC35-EC44	<100 µg/kg	TM173	218		<100		<100		902	
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100		<100		<100		<100	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	218		<100		<100		4710	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	567		<100		139		<100	



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 388		TPE 388		TPE 388		TPE 389		TPE 389		TPE 389	
#	ISO17025 accredited.		TPE 388		TPE 388		TPE 388		TPE 389		TPE 389		TPE 389	
M	mCERTS accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference	2.30 - 2.30 Soil/Solid 16/05/2014		3.10 - 3.10 Soil/Solid 16/05/2014		4.30 - 4.30 Soil/Solid 16/05/2014		0.50 - 0.50 Soil/Solid 16/05/2014		1.30 - 1.30 Soil/Solid 16/05/2014		2.30 - 2.30 Soil/Solid 16/05/2014	
aq	Aqueous / settled sample.		22/05/2014 140522-119 9327530		22/05/2014 140522-119 9327534		22/05/2014 140522-119 9327538		22/05/2014 140522-119 9327543		22/05/2014 140522-119 9327552		22/05/2014 140522-119 9327557	
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)													
Component	LOD/Units	Method	TPE 388		TPE 388		TPE 388		TPE 389		TPE 389		TPE 389	
GRO Surrogate % recovery**	%	TM089	61 @		72 @		81 @		74 @		100 @		137 @	
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	2030 @ M		29000 @ M		<880 @ M		72.5 @ M		93400 @ M		1490000 @ M	
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 @ M		<100 @ M		<100 @ M		<5 @ M		<50 @ M		<100 @ M	
Benzene	<10 µg/kg	TM089	<10 @ M		<200 @ M		<200 @ M		<10 @ M		<100 @ M		<200 @ M	
Toluene	<2 µg/kg	TM089	<2 @ M		<40 @ M		<40 @ M		<2 @ M		<20 @ M		<40 @ M	
Ethylbenzene	<3 µg/kg	TM089	20 @ M		<60 @ M		<60 @ M		<3 @ M		<30 @ M		<60 @ M	
m,p-Xylene	<6 µg/kg	TM089	<6 @ M		<120 @ M		<120 @ M		<6 @ M		<60 @ M		<120 @ M	
o-Xylene	<3 µg/kg	TM089	15.5 @ M		<60 @ M		<60 @ M		<3 @ M		<30 @ M		<60 @ M	
sum of detected mpo xylene by GC	<9 µg/kg	TM089	15.5 @		<9 @		<9 @		<9 @		<9 @		<9 @	
sum of detected BTEX by GC	<24 µg/kg	TM089	35.5 @		<24 @		<24 @		<24 @		<24 @		<24 @	
Aliphatics >C5-C6	<10 µg/kg	TM089	37.7 @		<200 @		<200 @		11.7 @		254 @		4720 @	
Aliphatics >C6-C8	<10 µg/kg	TM089	96.6 @		<200 @		<200 @		17.6 @		796 @		135000 @	
Aliphatics >C8-C10	<10 µg/kg	TM089	366 @		2550 @		<200 @		14 @		14800 @		475000 @	
Aliphatics >C10-C12	<10 µg/kg	TM089	748 @		14700 @		<200 @		<10 @		40600 @		335000 @	
Aliphatics >C12-C16	<100 µg/kg	TM173	129000		747000		6200		<100		236000		405000	
Aliphatics >C16-C21	<100 µg/kg	TM173	200000		1150000		13200		3550		30500		17000	
Aliphatics >C21-C35	<100 µg/kg	TM173	16900		71900		<100		6260		50900		200	
Aliphatics >C35-C44	<100 µg/kg	TM173	1050		807		<100		145		13500		<100	
Total Aliphatics >C12-C44	<100 µg/kg	TM173	347000		1970000		19400		9960		331000		422000	
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10 @		<200 @		<200 @		<10 @		<100 @		<200 @	
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10 @		<200 @		<200 @		<10 @		<100 @		<200 @	
Aromatics >EC8-EC10	<10 µg/kg	TM089	284 @		1700 @		<200 @		15.2 @		9900 @		317000 @	
Aromatics >EC10-EC12	<10 µg/kg	TM089	500 @		9790 @		<200 @		<10 @		27000 @		223000 @	
Aromatics >EC12-EC16	<100 µg/kg	TM173	37500		411000		5810		<100		38300		211000	
Aromatics >EC16-EC21	<100 µg/kg	TM173	85100		699000		10700		2440		20300		14300	
Aromatics >EC21-EC35	<100 µg/kg	TM173	6080		60900		<100		10300		99000		550	
Aromatics >EC35-EC44	<100 µg/kg	TM173	416		1550		153		4110		35400		227	
Aromatics >EC40-EC44	<100 µg/kg	TM173	294		608		<100		1210		12700		188	
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	129000		1170000		16700		16900		193000		226000	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	478000		3170000		36100		26900		617000		648000	



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

TPH CWG (S)

Results Legend		Customer Sample R	TPE 389	TPE 389				
#	ISO17025 accredited.	Depth (m) Sample Type Date Sampled Sample Time Date Received SDG Ref Lab Sample No.(s) AGS Reference						
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)							
Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	110 @	102 @				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	786000 @ M	228000 @ M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<100 @ M	<50 @ M				
Benzene	<10 µg/kg	TM089	<200 @ M	<100 @ M				
Toluene	<2 µg/kg	TM089	<40 @ M	<20 @ M				
Ethylbenzene	<3 µg/kg	TM089	<60 @ M	<30 @ M				
m,p-Xylene	<6 µg/kg	TM089	<120 @ M	<60 @ M				
o-Xylene	<3 µg/kg	TM089	<60 @ M	<30 @ 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	701 @	314 @				
Aliphatics >C6-C8	<10 µg/kg	TM089	20100 @	3900 @				
Aliphatics >C8-C10	<10 µg/kg	TM089	195000 @	58500 @				
Aliphatics >C10-C12	<10 µg/kg	TM089	264000 @	75500 @				
Aliphatics >C12-C16	<100 µg/kg	TM173	194000	78100				
Aliphatics >C16-C21	<100 µg/kg	TM173	12200	6930				
Aliphatics >C21-C35	<100 µg/kg	TM173	<100	1140				
Aliphatics >C35-C44	<100 µg/kg	TM173	<100	1020				
Total Aliphatics >C12-C44	<100 µg/kg	TM173	206000	87200				
Aromatics >EC5-EC7	<10 µg/kg	TM089	<200 @	<100 @				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<200 @	<100 @				
Aromatics >EC8-EC10	<10 µg/kg	TM089	130000 @	39000 @				
Aromatics >EC10-EC12	<10 µg/kg	TM089	176000 @	50400 @				
Aromatics >EC12-EC16	<100 µg/kg	TM173	92900	27500				
Aromatics >EC16-EC21	<100 µg/kg	TM173	6630	1480				
Aromatics >EC21-EC35	<100 µg/kg	TM173	<100	<100				
Aromatics >EC35-EC44	<100 µg/kg	TM173	<100	484				
Aromatics >EC40-EC44	<100 µg/kg	TM173	<100	445				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	99500	29400				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1090000	344000				



SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

Asbestos Identification - Solid Samples

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 282 0.20 - 0.20 SOLID 15/05/2014 00:00:00 140522-119 9327304 TM048	04/06/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 282 1.00 - 1.00 SOLID 15/05/2014 00:00:00 140522-119 9327308 TM048	04/06/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 333 0.20 - 0.20 SOLID 15/05/2014 00:00:00 140522-119 9327431 TM048	04/06/14	Laura Robbins	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 333 1.00 - 1.00 SOLID 15/05/2014 00:00:00 140522-119 9327493 TM048	04/06/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 340 0.30 - 0.30 SOLID 15/05/2014 00:00:00 140522-119 9327296 TM048	04/06/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 340 1.00 - 1.00 SOLID 15/05/2014 00:00:00 140522-119 9327328 TM048	04/06/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 380 0.50 - 0.50 SOLID 15/05/2014 00:00:00 140522-119 9327338 TM048	04/06/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 382 0.30 - 0.30 SOLID 16/05/2014 00:00:00 140522-119 9327360 TM048	04/06/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 382 1.00 - 1.00 SOLID 16/05/2014 00:00:00 140522-119 9327365 TM048	04/06/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 383 0.10 - 0.10 SOLID 16/05/2014 00:00:00 140522-119 9327392 TM048	04/06/14	Lauren Sargeant	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 384 0.50 - 0.50 SOLID 16/05/2014 00:00:00 140522-119 9327414 TM048	04/06/14	Laura Robbins	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 385 0.30 - 0.30 SOLID 16/05/2014 00:00:00 140522-119 9327572 TM048	04/06/14	Laura Robbins	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 386 0.50 - 0.50 SOLID 16/05/2014 00:00:00 140522-119 9327451 TM048	04/06/14	Laura Robbins	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 387 0.20 - 0.20 SOLID 16/05/2014 00:00:00 140522-119 9327481 TM048	04/06/14	Laura Robbins	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 387 1.00 - 1.00 SOLID 16/05/2014 00:00:00 140522-119 9327486 TM048	04/06/14	Laura Robbins	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 388 0.50 - 0.50 SOLID 16/05/2014 00:00:00 140522-119 9327521 TM048	04/06/14	Laura Robbins	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	TPE 389 0.50 - 0.50 SOLID 16/05/2014 00:00:00 140522-119 9327543 TM048	04/06/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



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Job: H_ATKINS_LDC-208
Client Reference: TP East

Location: Coed Darcy
Customer: Atkins Global Ltd
Attention: Jack Lowrie

Order Number: CD0678
Report Number: 272711
Superseded Report:

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
ASB_PREP				
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
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		
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		

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



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	9327304	9327308	9327313	9327318	9327323	9327300	9327431	9327493	9327548	9327594
	TPE 282	TPE 282	TPE 282	TPE 282	TPE 282	TPE 333	TPE 333	TPE 333	TPE 333	TPE 333
AGS Ref.										
Depth	0.20 - 0.20	1.00 - 1.00	2.00 - 2.00	3.00 - 3.00	3.70 - 3.70	5.00 - 5.00	0.20 - 0.20	1.00 - 1.00	2.00 - 2.00	3.00 - 3.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	04-Jun-2014	04-Jun-2014					04-Jun-2014	04-Jun-2014		
EPH CWG (Aliphatic) GC (S)	03-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014	02-Jun-2014
EPH CWG (Aromatic) GC (S)	03-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014	02-Jun-2014
GRO by GC-FID (S)	08-Jun-2014	07-Jun-2014	08-Jun-2014	07-Jun-2014	07-Jun-2014	08-Jun-2014	07-Jun-2014	08-Jun-2014	07-Jun-2014	08-Jun-2014
Metals in solid samples by OES	04-Jun-2014	03-Jun-2014	05-Jun-2014	05-Jun-2014	05-Jun-2014	05-Jun-2014	03-Jun-2014	03-Jun-2014	05-Jun-2014	05-Jun-2014
PAH by GCMS	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	05-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014
pH	05-Jun-2014	05-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	04-Jun-2014	04-Jun-2014	03-Jun-2014	02-Jun-2014
Sample description	27-May-2014	27-May-2014	23-May-2014	23-May-2014	23-May-2014	23-May-2014	27-May-2014	27-May-2014	23-May-2014	23-May-2014
Total Organic Carbon				04-Jun-2014		04-Jun-2014			04-Jun-2014	
TPH CWG GC (S)	08-Jun-2014	07-Jun-2014	08-Jun-2014	07-Jun-2014	07-Jun-2014	08-Jun-2014	07-Jun-2014	08-Jun-2014	07-Jun-2014	08-Jun-2014

Lab Sample No(s) Customer Sample Ref.	9327602	9327296	9327328	9327333	9327375	9327338	9327342	9327347	9327351	9327356
	TPE 333	TPE 340	TPE 340	TPE 340	TPE 340	TPE 380	TPE 381	TPE 381	TPE 381	TPE 381
AGS Ref.										
Depth	4.00 - 4.00	0.30 - 0.30	1.00 - 1.00	2.00 - 2.00	2.90 - 2.90	0.50 - 0.50	2.00 - 2.00	3.00 - 3.00	4.00 - 4.00	5.00 - 5.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples		04-Jun-2014	04-Jun-2014			04-Jun-2014				
EPH CWG (Aliphatic) GC (S)	02-Jun-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	28-May-2014	29-May-2014	29-May-2014	29-May-2014
EPH CWG (Aromatic) GC (S)	02-Jun-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	28-May-2014	29-May-2014	29-May-2014	29-May-2014
GRO by GC-FID (S)	06-Jun-2014	09-Jun-2014	08-Jun-2014	07-Jun-2014	07-Jun-2014	07-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
Metals in solid samples by OES	05-Jun-2014	03-Jun-2014	03-Jun-2014	05-Jun-2014	05-Jun-2014	01-Jun-2014	02-Jun-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014
PAH by GCMS	05-Jun-2014	04-Jun-2014	05-Jun-2014	04-Jun-2014	06-Jun-2014	05-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014
pH	03-Jun-2014	05-Jun-2014	05-Jun-2014	03-Jun-2014	03-Jun-2014	04-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014
Sample description	23-May-2014	27-May-2014	27-May-2014	23-May-2014	23-May-2014	28-May-2014	23-May-2014	23-May-2014	23-May-2014	23-May-2014
Total Organic Carbon		03-Jun-2014			04-Jun-2014			02-Jun-2014		
TPH CWG GC (S)	06-Jun-2014	09-Jun-2014	08-Jun-2014	07-Jun-2014	07-Jun-2014	07-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014

Lab Sample No(s) Customer Sample Ref.	9327360	9327365	9327370	9327380	9327384	9327388	9327392	9327396	9327402	9327406
	TPE 382	TPE 382	TPE 382	TPE 382	TPE 382	TPE 382	TPE 383	TPE 383	TPE 383	TPE 383
AGS Ref.										
Depth	0.30 - 0.30	1.00 - 1.00	2.00 - 2.00	3.00 - 3.00	4.00 - 4.00	5.00 - 5.00	0.10 - 0.10	1.10 - 1.10	2.20 - 2.20	3.30 - 3.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	04-Jun-2014	04-Jun-2014					04-Jun-2014			
EPH CWG (Aliphatic) GC (S)	02-Jun-2014	02-Jun-2014	28-May-2014	29-May-2014	28-May-2014	29-May-2014	03-Jun-2014	29-May-2014	28-May-2014	28-May-2014
EPH CWG (Aromatic) GC (S)	02-Jun-2014	02-Jun-2014	28-May-2014	29-May-2014	28-May-2014	29-May-2014	03-Jun-2014	29-May-2014	28-May-2014	28-May-2014
GRO by GC-FID (S)	07-Jun-2014	06-Jun-2014	06-Jun-2014	07-Jun-2014	07-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	07-Jun-2014	07-Jun-2014
Metals in solid samples by OES	02-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	04-Jun-2014	02-Jun-2014	03-Jun-2014	29-May-2014	03-Jun-2014	03-Jun-2014
PAH by GCMS	05-Jun-2014	05-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	05-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014
pH	04-Jun-2014	04-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	04-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014
Sample description	28-May-2014	28-May-2014	23-May-2014	23-May-2014	23-May-2014	23-May-2014	28-May-2014	23-May-2014	23-May-2014	23-May-2014
Total Organic Carbon	03-Jun-2014			02-Jun-2014			03-Jun-2014			02-Jun-2014
TPH CWG GC (S)	07-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	07-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014	07-Jun-2014

Lab Sample No(s) Customer Sample Ref.	9327410	9327414	9327424	9327438	9327442	9327448	9327572	9327576	9327581	9327585
	TPE 383	TPE 384	TPE 384	TPE 384	TPE 384	TPE 384	TPE 385	TPE 385	TPE 385	TPE 385
AGS Ref.										
Depth	4.40 - 4.40	0.50 - 0.50	1.10 - 1.10	2.20 - 2.20	3.30 - 3.30	4.40 - 4.40	0.30 - 0.30	1.30 - 1.30	2.30 - 2.30	3.30 - 3.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples		04-Jun-2014					04-Jun-2014			
EPH CWG (Aliphatic) GC (S)	28-May-2014	03-Jun-2014	29-May-2014	03-Jun-2014	02-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014	02-Jun-2014
EPH CWG (Aromatic) GC (S)	28-May-2014	03-Jun-2014	29-May-2014	03-Jun-2014	02-Jun-2014	02-Jun-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014	02-Jun-2014
GRO by GC-FID (S)	07-Jun-2014	08-Jun-2014	06-Jun-2014	07-Jun-2014	06-Jun-2014	07-Jun-2014	07-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014
Metals in solid samples by OES	03-Jun-2014	03-Jun-2014	05-Jun-2014	02-Jun-2014	05-Jun-2014	05-Jun-2014	01-Jun-2014	05-Jun-2014	05-Jun-2014	05-Jun-2014
PAH by GCMS	05-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014
pH	03-Jun-2014	03-Jun-2014	02-Jun-2014	03-Jun-2014	03-Jun-2014	02-Jun-2014	04-Jun-2014	03-Jun-2014	04-Jun-2014	04-Jun-2014
Sample description	23-May-2014	28-May-2014	23-May-2014	22-May-2014	23-May-2014	29-May-2014	28-May-2014	28-May-2014	28-May-2014	28-May-2014
Total Organic Carbon			04-Jun-2014			04-Jun-2014		04-Jun-2014		04-Jun-2014
TPH CWG GC (S)	07-Jun-2014	08-Jun-2014	06-Jun-2014	07-Jun-2014	06-Jun-2014	07-Jun-2014	07-Jun-2014	06-Jun-2014	06-Jun-2014	06-Jun-2014



CERTIFICATE OF ANALYSIS

SDG: 140522-119
Job: H_ATKINS_LDC-208
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Lab Sample No(s)	9327590	9327451	9327458	9327462	9327467	9327473	9327481	9327486	9327501	9327505
Customer Sample Ref.	TPE 385	TPE 386	TPE 386	TPE 386	TPE 386	TPE 386	TPE 387	TPE 387	TPE 387	TPE 387
AGS Ref.										
Depth	4.30 - 4.30	0.50 - 0.50	1.30 - 1.30	2.30 - 2.30	3.30 - 3.30	4.30 - 4.30	0.20 - 0.20	1.00 - 1.00	2.00 - 2.00	3.00 - 3.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples		04-Jun-2014					04-Jun-2014	04-Jun-2014		
EPH CWG (Aliphatic) GC (S)	02-Jun-2014	03-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	03-Jun-2014	29-May-2014	29-May-2014
EPH CWG (Aromatic) GC (S)	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	02-Jun-2014	03-Jun-2014	29-May-2014	29-May-2014
GRO by GC-FID (S)	07-Jun-2014	07-Jun-2014	08-Jun-2014	07-Jun-2014	07-Jun-2014	07-Jun-2014	08-Jun-2014	06-Jun-2014	05-Jun-2014	07-Jun-2014
Metals in solid samples by OES	05-Jun-2014	29-May-2014	05-Jun-2014	05-Jun-2014	05-Jun-2014	05-Jun-2014	03-Jun-2014	03-Jun-2014	05-Jun-2014	05-Jun-2014
PAH by GCMS	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	05-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014
pH	03-Jun-2014	04-Jun-2014	02-Jun-2014	03-Jun-2014	02-Jun-2014	02-Jun-2014	04-Jun-2014	03-Jun-2014	03-Jun-2014	03-Jun-2014
Sample description	28-May-2014	27-May-2014	23-May-2014	23-May-2014	23-May-2014	23-May-2014	28-May-2014	28-May-2014	22-May-2014	22-May-2014
Total Organic Carbon			04-Jun-2014				04-Jun-2014		04-Jun-2014	
TPH CWG GC (S)	07-Jun-2014	07-Jun-2014	08-Jun-2014	07-Jun-2014	07-Jun-2014	07-Jun-2014	08-Jun-2014	06-Jun-2014	05-Jun-2014	07-Jun-2014

Lab Sample No(s)	9327509	9327516	9327521	9327525	9327530	9327534	9327538	9327543	9327552	9327557
Customer Sample Ref.	TPE 387	TPE 387	TPE 388	TPE 388	TPE 388	TPE 388	TPE 388	TPE 389	TPE 389	TPE 389
AGS Ref.										
Depth	4.00 - 4.00	4.90 - 4.90	0.50 - 0.50	1.20 - 1.20	2.30 - 2.30	3.10 - 3.10	4.30 - 4.30	0.50 - 0.50	1.30 - 1.30	2.30 - 2.30
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			04-Jun-2014					04-Jun-2014		
EPH CWG (Aliphatic) GC (S)	29-May-2014	29-May-2014	03-Jun-2014	28-May-2014	02-Jun-2014	02-Jun-2014	29-May-2014	03-Jun-2014	29-May-2014	29-May-2014
EPH CWG (Aromatic) GC (S)	29-May-2014	29-May-2014	03-Jun-2014	28-May-2014	02-Jun-2014	02-Jun-2014	29-May-2014	03-Jun-2014	29-May-2014	29-May-2014
GRO by GC-FID (S)	07-Jun-2014	07-Jun-2014	07-Jun-2014	07-Jun-2014	07-Jun-2014	08-Jun-2014	08-Jun-2014	07-Jun-2014	07-Jun-2014	07-Jun-2014
Metals in solid samples by OES	05-Jun-2014	05-Jun-2014	03-Jun-2014	05-Jun-2014	03-Jun-2014	05-Jun-2014	05-Jun-2014	03-Jun-2014	05-Jun-2014	05-Jun-2014
PAH by GCMS	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	05-Jun-2014	04-Jun-2014	04-Jun-2014
pH	02-Jun-2014	03-Jun-2014	05-Jun-2014	03-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	04-Jun-2014	03-Jun-2014
Sample description	22-May-2014	22-May-2014	28-May-2014	22-May-2014	28-May-2014	28-May-2014	22-May-2014	28-May-2014	23-May-2014	22-May-2014
Total Organic Carbon		04-Jun-2014			02-Jun-2014			03-Jun-2014		04-Jun-2014
TPH CWG GC (S)	07-Jun-2014	07-Jun-2014	07-Jun-2014	07-Jun-2014	07-Jun-2014	08-Jun-2014	08-Jun-2014	07-Jun-2014	07-Jun-2014	06-Jun-2014

Lab Sample No(s)	9327564	9327568
Customer Sample Ref.	TPE 389	TPE 389
AGS Ref.		
Depth	3.30 - 3.30	4.30 - 4.30
Type	SOLID	SOLID
EPH CWG (Aliphatic) GC (S)	29-May-2014	02-Jun-2014
EPH CWG (Aromatic) GC (S)	29-May-2014	02-Jun-2014
GRO by GC-FID (S)	07-Jun-2014	07-Jun-2014
Metals in solid samples by OES	05-Jun-2014	05-Jun-2014
PAH by GCMS	04-Jun-2014	04-Jun-2014
pH	03-Jun-2014	04-Jun-2014
Sample description	22-May-2014	28-May-2014
Total Organic Carbon		04-Jun-2014
TPH CWG GC (S)	07-Jun-2014	07-Jun-2014

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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.

Monitor Phase 57 - Southern Section

						Soil Organic Matter (SOM)	pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
						%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RBSL Parks >1m																	
Trial Pit	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete												
IP0958	0.50-	141128-120	26/11/2014	28/11/2014	05/02/2015	-	7.15	13.6	0.2	15.2	168	55.3	0.194	22.6	<1	17.5	180
IP0958	1.50-	141128-120	26/11/2014	28/11/2014	05/02/2015	-	7.89	15.4	0.15	13.4	84.7	65.2	<0.14	25.9	<1	18.3	192
IP0958	2.50-	141128-120	26/11/2014	28/11/2014	05/02/2015	-	7.03	7.8	<0.02	10.2	11	12.2	<0.14	21.2	<1	12	58.6
IP0958	3.50-	141128-120	26/11/2014	28/11/2014	05/02/2015	-	6.76	10.3	<0.02	15.3	23.2	25.1	<0.14	26.7	<1	19.9	76.5
TPE 382	0.30-0.30	140522-119	16/05/2014	22/05/2014	07/06/2014	46.9	6.83	48.5	1.57	30.9	81.6	481	<0.14	40.4	<10	23.3	1560
TPE 382	1.00-1.00	140522-119	16/05/2014	22/05/2014	07/06/2014	-	5.28	30.3	0.189	12.4	53.9	30.2	<0.14	12.6	<1	19.6	41.9
TPE 382	2.00-2.00	140522-119	16/05/2014	22/05/2014	06/06/2014	-	6.31	12.4	0.161	12.3	14.1	13.7	<0.14	25.6	<1	15.2	72.3
TPE 382	3.00-3.00	140522-119	16/05/2014	22/05/2014	07/06/2014	3.41	6.7	12.5	0.17	11.9	16.7	14.1	<0.14	26.4	<1	13.5	60.2
TPE 382	4.00-4.00	140522-119	16/05/2014	22/05/2014	07/06/2014	-	6.84	12	0.224	12.2	21.7	16.7	<0.14	30.5	1.11	14.5	68.5
TPE 382	5.00-5.00	140522-119	16/05/2014	22/05/2014	06/06/2014	-	6.78	11.7	0.32	12.9	20.6	14.9	<0.14	31	<1	13.8	68.9
TPE 383	0.10-0.10	140522-119	16/05/2014	22/05/2014	07/06/2014	2.65	4.86	44.7	0.204	15.3	61.9	38.4	<0.14	14.8	1.35	21.2	55
TPE 383	1.10-1.10	140522-119	16/05/2014	22/05/2014	07/06/2014	-	5.94	8.59	0.225	13.5	15.2	14.5	<0.14	24.4	<1	15.6	54.4
TPE 383	2.20-2.20	140522-119	16/05/2014	22/05/2014	07/06/2014	-	6.55	9.15	0.226	11.8	14.1	12.9	<0.14	29.7	<1	13.2	63.4
TPE 383	3.30-3.30	140522-119	16/05/2014	22/05/2014	07/06/2014	6.91	7.28	9.6	0.122	12.6	21.5	15.8	<0.14	33.8	1.09	14.9	71.4
TPE 383	4.40-4.40	140522-119	16/05/2014	22/05/2014	07/06/2014	-	6.99	9.48	0.286	11.8	18.6	16.1	<0.14	30.6	<1	13.8	69
TPE 543	0.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	5.4	7.36	13.7	0.788	29.8	36.7	228	0.154	36	<1	24.7	266
TPE 543	1.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	4.72	12.7	0.248	7.09	39.1	11.5	<0.14	31.1	1.15	28.5	21.6
TPE 543	2.50-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	6.2	9.81	0.05	14.2	18	15.1	<0.14	29.6	<1	16.4	52.3
TPE 543	3.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	6.42	12.9	0.0293	13.6	19.9	15.9	<0.14	39.5	<1	16.6	82.3
TPE 544	0.30-0.00	140530-49	28/05/2014	30/05/2014	19/06/2014	14.8	7.87	33.7	1.51	44.4	147	424	1.34	31.6	<1	37.2	697
TPE 544	1.30-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	7.65	23.5	0.558	16.6	38.3	67	0.143	19.3	<1	21.8	143
TPE 544	2.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	6.31	25.8	0.65	15.5	107	75.8	0.174	38.2	<1	28.7	168
TPE 544	3.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	5.45	17.6	0.94	21.5	9.99	21.8	<0.14	17.1	<1	31.3	95.4
TPE 544	4.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	5.38	4.85	0.312	11.9	5.56	13.2	<0.14	8.53	<1	18.3	58.6
TPE 545	0.30-0.00	140530-49	28/05/2014	30/05/2014	18/06/2014	-	7.58	30.4	1.39	29.7	107	281	0.822	31.4	1.01	27.5	518
TPE 545	1.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	8.33	7.6	28	1.09	28.4	85.2	229	0.6	30.1	1.13	26.2	709
TPE 545	2.30-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	8.06	22.7	0.952	42.7	74.8	190	0.429	26	1.04	30.5	755
TPE 545	3.30-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	7.91	25.9	1.24	30.8	88.7	240	0.477	36.1	<1	26.1	594
TPE 546	0.20-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	33.4	7.27	33.8	1.07	13.2	67.1	48.1	<0.14	32.9	1.14	24	102
TPE 546	1.20-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	6.78	17.1	0.398	9.65	42.4	27	<0.14	34	<1	24.5	68.8
TPE 546	2.40-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	6.28	39.2	0.243	6.94	40.3	11.7	<0.14	6.82	<1	11.9	21.6
TPE 546	3.40-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	7	10.9	<0.02	19.7	16.2	18	<0.14	38.5	2.17	24	52.2
TPE 546	4.80-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	6.88	12.5	0.524	11.8	23.2	16.2	<0.14	26.6	<1	13.6	57
TPE 585	0.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	9.98	7.78	5.03	0.469	7	54.6	40.7	0.477	8.17	<1	8.3	92.5
TPE 585	1.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	8.02	11.6	0.361	11.2	52.8	23.8	<0.14	30	<1	38	41.5
TPE 585	2.30-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	6.14	18.9	0.626	16.7	65	18.8	<0.14	11.7	<1	19	38.8
TPE 586	0.30-0.00	140530-49	28/05/2014	30/05/2014	19/06/2014	40.3	8.48	19.2	1.27	25.5	63.9	455	0.205	34.7	<1	27.5	555
TPE 586	1.50-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	7.71	3.58	0.358	6.75	35.9	37.9	0.618	9.99	<1	11.7	110
TPE 587	0.40-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	3.6	7.63	20.4	0.83	20.3	54.2	243	0.568	30.8	<1	25.2	513
TPE 587	1.50-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	7.57	25.5	1.04	23.2	67.2	180	0.617	30.2	<1	22.7	402
TPE 587	2.50-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	7.44	26.8	1.32	37.7	119	230	0.681	32.7	<1	27.2	773
TPE 587	3.50-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	7.48	19.7	0.789	13	36.4	49.9	0.315	24.9	1.49	28.9	219
TPE 587	4.80-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	7.8	21.9	0.627	13.9	50.3	58.3	0.775	16.7	<1	25.7	102
TPE 588	0.30-0.00	140530-49	28/05/2014	30/05/2014	19/06/2014	3.93	7.91	20.9	1.09	28.7	88.9	228	0.797	33	<1	34.7	402
TPE 588	1.40-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	7.46	20.9	3.3	38.1	90.4	1160	0.484	46.1	<1	43.1	1040
TPE 588	2.30-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	6.31	5.56	0.358	9.11	27.6	32	0.992	16.2	<1	23.2	87.9
TPE 588	3.50-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	6.86	24.7	0.596	17.5	70.1	84.1	0.584	33.9	<1	35.8	161
TPE 588	4.80-0.00	140530-49	28/05/2014	30/05/2014	13/06/2014	-	6.12	24.8	0.326	11.2	63.5	40.3	0.245	19.6	<1	23.7	81.1
TPE 643	0.20-0.00	140530-49	28/05/2014	30/05/2014	19/06/2014	5.43	7.47	22.4	1.18	23.9	66.3	148	<0.14	30.7	<1	22.3	319
TPE 643	1.60-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	7.83	25.1	1.13	26.3	78.8	165	<0.14	34.5	<1	23.6	300
TPE 643	2.60-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	7.42	22.4	0.413	8.27	45.8	23.7	0.288	21.8	<1	26.4	28.8
TPE 643	3.80-0.00	140530-49	28/05/2014	30/05/2014	12/06/2014	-	7.38	21.2	0.553	10.9	66.6	44.44					

Monitor Phase 57 - Southern Section

						Soil Organic Matter (SOM)	pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
						%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						RBSL Parks >1m											
Trial Pit	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete												
IP0888	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	7.73	9.13	<0.02	12	11	12.3	<0.14	28.4	<1	16.8	65.8
IP0888	2.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	7.31	8.42	<0.02	11.8	13.8	11.9	<0.14	30.3	<1	13.5	66.2
IP0889	0.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.19	7.98	<0.02	14.9	16.8	15.8	<0.14	32.7	<1	16.4	72.6
IP0889	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	7.26	8.32	<0.02	13.3	13.1	12.7	<0.14	30	<1	16.4	72.4
IP0891	0.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	6.07	7.37	<0.02	15.8	20	14.4	<0.14	26.7	<1	29.1	78
IP0891	1.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	6.97	7.25	<0.02	11	15.1	14.6	<0.14	26.5	<1	14.9	55.5
IP0892	0.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	1.51	5.57	6.5	<0.02	12.1	10.6	12.6	<0.14	23.1	<1	14.2	60.5
IP0892	1.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	5.74	6.42	<0.02	11.2	10.9	12.4	<0.14	25.5	<1	11.4	58.9
IP0894	0.50-	141202-60	27/11/2014	02/12/2014	22/12/2014	-	6.72	12.6	0.23	15.1	29.4	23.6	<0.14	44.9	<1	18.3	112
IP0894	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.97	8.75	<0.02	11	12.5	11.6	<0.14	26.1	<1	12.5	65.8
IP0894	2.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.92	9.02	<0.02	11.8	8.06	10.3	<0.14	27.1	<1	13.6	71.1
IP957	0.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	7.81	37.4	0.159	13.9	51.1	28.3	<0.14	13.7	<1	20.7	55.5
IP957	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.58	10	<0.02	21.3	22.5	19.3	<0.14	20.6	<1	31.3	69.8
IP959	0.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	2.93	8.06	15.4	0.32	14.6	42.9	54.3	<0.14	27.1	<1	17.6	177
IP959	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.28	14.3	<0.02	17.4	10.8	17	<0.14	17.4	<1	27	51.6
IP959	2.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	7.38	8.71	<0.02	13.8	16.9	15.3	<0.14	31.2	<1	16.1	69.5
IP960	0.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	5.18	6.9	<0.02	25	18.6	17	<0.14	28	<1	23.4	58.9
IP960	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	5.33	13.5	<0.02	18	18.4	20.1	<0.14	37.8	<1	23.8	104
IP960	2.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.48	9.28	<0.02	13.3	11.9	11.6	<0.14	31.2	<1	14.7	72.5
IP960	3.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	7.44	7.85	<0.02	10.2	10.8	10.5	<0.14	27.4	<1	11.5	59.2
IP961	0.50-	141126-46	25/11/2014	26/11/2014	19/12/2014	2.34	7.98	16.3	0.1	16.5	40.8	83.9	<0.14	37.3	<1	20.6	186
IP962	0.50-	141126-46	25/11/2014	26/11/2014	18/12/2014	-	6.69	9.17	<0.02	15.4	15.6	14.5	<0.14	37	<1	18.2	80.5
IP962	1.50-	141126-46	25/11/2014	26/11/2014	18/12/2014	-	7.01	9.1	<0.02	12.9	14	13.8	<0.14	30.6	<1	15.2	67.6
IP963	0.50-	141126-70	24/11/2014	26/11/2014	08/12/2014	1.76	5.1	11.5	<0.02	19.1	30.3	9.38	<0.14	28.3	<1	19.7	103
IP963	1.50-	141126-70	24/11/2014	26/11/2014	07/12/2014	-	5.54	8.95	<0.02	11.1	16.2	8.88	<0.14	26.9	<1	12.1	74.5
IP964	0.50-	141126-70	24/11/2014	26/11/2014	08/12/2014	-	4.91	27.2	<0.02	14.3	41.2	20	0.166	19.2	1.11	23.4	61
IP964	1.50-	141126-70	24/11/2014	26/11/2014	08/12/2014	-	5.28	9.44	<0.02	13.1	15.3	15	<0.14	25.1	<1	15.8	70.2
IP965	0.50-	141126-70	24/11/2014	26/11/2014	08/12/2014	1.74	5.57	10.1	0.153	14.5	21	14.5	<0.14	33.3	<1	17.4	118
IP965	1.50-	141126-70	24/11/2014	26/11/2014	07/12/2014	-	6.32	7.89	<0.02	12.4	12	18.7	<0.14	30.5	<1	15.1	63.9
IP965	2.50-	141126-70	24/11/2014	26/11/2014	07/12/2014	-	6.23	6.53	<0.02	11.6	11.8	10.9	<0.14	27.1	<1	12.8	57.6
IP965	3.50-	141126-70	24/11/2014	26/11/2014	07/12/2014	-	6.24	8.29	0.0361	11.6	11.7	11.8	<0.14	31.4	<1	12.8	61.8
IP0966	0.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	6.69	11.9	<0.02	11.2	15.1	7.36	<0.14	29.4	1.38	10.8	71.6
IP0975	0.50-	141128-120	26/11/2014	28/11/2014	20/12/2014	8.86	7.07	342	0.812	14.2	2570	116	0.161	27.4	1.65	21.6	2100
IP0977	0.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	6.27	8.74	<0.02	10.2	13.6	12.2	<0.14	26.5	<1	10.2	64.2
IP0978	0.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	7.68	8.67	<0.02	10.7	15.7	20.8	<0.14	23.9	<1	8.23	78.9
IP0979	0.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	7.84	9.77	0.0283	12.4	96.6	27.8	<0.14	22.4	<1	13.2	107
IP0980	0.50-	141128-120	26/11/2014	28/11/2014	22/12/2014	18.1	6.11	21.7	0.292	31	50	56.7	0.175	25.7	<1	22.7	128
IP0980	1.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	5.62	13.4	0.111	13.8	35.5	29.7	<0.14	19.6	<1	18.6	86
IP0981	0.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	7.26	10.8	<0.02	17.1	14.1	13.8	<0.14	16.1	<1	21.1	49.3
IP0981	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.89	21.8	<0.02	16	19.9	17.7	<0.14	24.7	<1	21.4	69.1
IP0982	0.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	3.57	7.2	6.33	0.142	14.2	13.1	22.3	<0.14	11.2	<1	19.8	52.4
IP0984	0.50-	141202-60	27/11/2014	02/12/2014	22/12/2014	-	5.47	10.8	<0.02	15.1	18.8	32.8	<0.14	10.1	1.15	17.9	82.9
IP0985	0.50-	141128-120	26/11/2014	28/11/2014	05/02/2015	4.21	7.54	15.4	0.118	14.5	43.4	59.9	<0.14	17.1	<1	18.9	157
IP0986	0.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	4.81	16.6	<0.02	13.7	41.9	63.4	<0.14	25.2	<1	21.1	182
IP0986	1.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	5.87	8.74	<0.02	12.8	19.9	11.8	<0.14	25.6	<1	17.2	80.2
IP0986	2.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	5.68	11.4	<0.02	15	19.3	16.6	<0.14	40.8	<1	19.3	90.3
IP0986	3.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	5.7	8.5	<0.02	13.3	13.9	14	<0.14	32.3	<1	15.4	73.3
IP0987	0.50-	141128-120	26/11/2014	28/11/2014	05/02/2015	6.24	7.64	33.3	0.617	21.5	95.2	107	0.481	25.1	<1	23.7	313
IP0987	1.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	5.63	9.92	<0.02	18	15.1	17.5	<0.14	14.6	<1	22.5	52.8
IP0987	2.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	5.67	8.28	<0.02	13.5	22.8	15.8	<0.14	29.4	<1	16.6	70.7
IP0988	0.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	7.72	20.1	0.44	14.7	52.3	10.3	0.566	23.8	<1	20.3	39.9
IP0988	1.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	5.93	19.6	<0.02	20.7	14.9	31.8	<0.14	11.9	<1	17.9	68.6
IP0988	2.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	6.62	6.09	<0.02	15.7	13.2	13.5	<0.14	17.8	<1	23.6	44.5
IP0988	3.50-	141128-120	26/11/2014	28/11/2014	19/12/2014	-	6.09	18	0.0863	20	47.3	78.1	0.557	26.5	<1	23.8	198
IP0989	0.50-	141202-60	27/11/2014	02/12/2014	06/02/2015	-	5.34	30.2	0.311	15.3	85.3	116	0.561	21.7	<1	18.5	345
IP0989	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	7.89	94.5	1.1	20	699	448	0.67	28.3	<1	29	1670
IP0990	0.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	2.74	8.32	22.8	0.415	16.1	69.6	107	2.19	23.9	<1	20.5	294
IP0990	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.06	23.9	0.257	11.3	53.2	19.1	<0.14	9.48	<1	18	50.7
IP0990	2.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	5.99	20.8	0.374	17.8	26.8	18.8	<0.14	17.9	<1	29	59.4
IP0991	0.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	8.2	24.8	0.369	18.9	78.1	117	1.63	24.2	<1	23.9	280
IP0991	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6	11.8	<0.02	17.7	13.4	15.9	<0.14	19	<1	23.8	40.6
IP0991	2.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.21	15.1	0.124	9.09	52.2	27.4	<0.14	7.36	<1	15.1	74.6
IP0992	0.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	7.93	29	0.45	15.9	79.3	159	0.973	26	<1	21	417
IP0992	1.50-	141202-60	27/11/2014	02/12/2014	20/12/2014	-	6.22	19.9	0.589	20							

Monitor Phase 57 - Southern Section

						Soil Organic Matter (SOM)	pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc
						%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RBSL Parks >1m																	
Trial Pit	Sample Depth	SDG ID.	Date Sampled	Received On	Date Complete												
IP1190	2.50-	141114-1	11/11/2014	14/11/2014	03/12/2014	-	6.01	10.2	<0.02	14.7	23.6	15.4	<0.14	25.9	<1	18	67.5
IP1191	1.00-	141114-1	11/11/2014	14/11/2014	03/12/2014	-	6.51	18.5	0.167	14.3	42.4	114	<0.14	24.3	<1	18	186
IP1191	2.00-	141114-1	11/11/2014	14/11/2014	04/12/2014	-	5.79	31.5	0.0584	8	42.4	21.1	<0.14	33.3	2.09	22	47.9
IP1191	3.00-	141114-1	11/11/2014	14/11/2014	04/12/2014	2.57	5.35	16.1	0.836	21.4	11.4	19	<0.14	19.3	<1	28.9	92.7
IP1192	1.00-	141114-1	11/11/2014	14/11/2014	28/01/2015	-	7.64	32.8	0.781	40.5	120	347	0.833	37.5	<1	32.6	669
IP1192	2.00-	141114-1	11/11/2014	14/11/2014	03/12/2014	-	7.32	19	0.181	13.2	106	53.6	<0.14	39.3	<1	27.1	312
IP1192	3.00-	141114-1	11/11/2014	14/11/2014	03/12/2014	-	7.7	15.8	0.278	15.9	46	68.8	<0.14	38.2	<1	24.1	83.8
IP1192	4.00-	141114-1	11/11/2014	14/11/2014	03/12/2014	-	5.9	35	0.284	17.6	57.5	53.6	<0.14	16.6	<1	22.9	80.4
IP1194	1.00-	141114-122	12/11/2014	14/11/2014	08/12/2014	-	5.26	11.9	<0.02	6.33	33	10.3	<0.14	21.2	<1	18.1	26.2
IP1194	2.00-	141114-122	12/11/2014	14/11/2014	07/12/2014	-	6.08	23.9	<0.02	15.8	24.6	17.8	<0.14	16.7	<1	23.9	64.5
IP1194	3.00-	141114-122	12/11/2014	14/11/2014	08/12/2014	-	6.73	8.02	<0.02	12.5	18.8	15.8	<0.14	23.7	<1	17.4	54.7
IP1195	0.50-	141114-122	12/11/2014	14/11/2014	08/12/2014	5.55	7.8	35.5	0.585	16.4	161	135	<0.14	27.7	<1	23.2	302
IP1195	1.50-	141114-122	12/11/2014	14/11/2014	08/12/2014	-	6.27	25.2	<0.02	9.53	50.5	20.9	<0.14	35	<1	33.3	41.4
IP1195	2.50-	141114-122	12/11/2014	14/11/2014	08/12/2014	-	5.48	13.1	<0.02	14.4	19.5	15.3	<0.14	22.5	<1	21.5	65
IP1195	3.50-	141114-122	12/11/2014	14/11/2014	07/12/2014	-	6.84	8.86	<0.02	10.9	11.3	10.1	<0.14	26.6	<1	13	59.4
IP1196	0.50-	141114-122	12/11/2014	14/11/2014	05/12/2014	-	6.12	9.73	<0.02	13.2	14.3	13.2	<0.14	29.7	<1	16.4	69
IP1196	1.50-	141114-122	12/11/2014	14/11/2014	07/12/2014	37.6	6.24	15.8	<0.02	12.4	28.6	15.8	<0.14	18.5	<1	23.2	40.9
IP1196	2.50-	141114-122	12/11/2014	14/11/2014	07/12/2014	-	5.89	12.3	<0.02	13.2	33.5	13.7	<0.14	16.6	1.23	22	42.2
IP1196	3.50-	141114-122	12/11/2014	14/11/2014	05/12/2014	-	8.31	24.1	0.202	15.9	56.3	76.3	<0.14	17.9	<1	21.4	206
IP1197	0.50-	141114-122	12/11/2014	14/11/2014	07/12/2014	-	7.34	59.8	0.69	16.4	189	421	<0.14	33.6	<1	18.5	1070
IP1197	1.50-	141114-122	12/11/2014	14/11/2014	07/12/2014	-	7.68	15.4	0.35	8.7	49.9	50.7	2.02	26.5	<1	26.6	229
IP1197	2.50-	141114-122	12/11/2014	14/11/2014	05/12/2014	-	7.86	10.1	0.698	12.4	45.2	58.5	2.85	33	<1	36.2	380
IP1197	3.50-	141114-122	12/11/2014	14/11/2014	05/12/2014	-	6.02	12.5	0.0353	14.6	29.7	37.1	1.42	27.2	<1	30.7	64.8
IP1198	0.50-	141114-122	12/11/2014	14/11/2014	07/12/2014	3.86	7.34	77.2	0.813	17.9	234	555	<0.14	39.6	<1	22.8	1280
IP1198	1.50-	141114-122	12/11/2014	14/11/2014	07/12/2014	-	8.39	16	0.182	21.4	67.7	22.3	0.572	44.7	<1	62.1	110
IP1198	2.50-	141114-122	12/11/2014	14/11/2014	07/12/2014	-	6.86	22	1.36	17.4	113	97.7	1.55	46.6	<1	40.8	443
IP1198	3.50-	141114-122	12/11/2014	14/11/2014	05/12/2014	-	6.73	38.3	1.46	18.8	121	232	0.757	40.7	<1	54.4	391
IP1199	0.50-	141114-122	12/11/2014	14/11/2014	07/12/2014	-	8.06	75	0.746	21.8	395	449	0.563	29.3	<1	30.3	988
IP1215	0.50-	141107-6	03/11/2014	07/11/2014	08/01/2015	6.19	7.03	81.6	0.496	15.1	481	478	<0.14	36	<1	16.8	1410
IP1216	1.00-	141107-6	03/11/2014	07/11/2014	25/11/2014	-	7.26	76.2	0.733	14.7	208	646	<0.14	38.6	<1	18.2	1400
IP1217	1.00-	141107-6	03/11/2014	07/11/2014	08/01/2015	-	7.31	92.9	1.65	18.5	401	660	<0.14	41.3	<1	19.9	1470
IP1218	1.00-	141107-6	03/11/2014	07/11/2014	09/01/2015	-	8.26	49.9	1.26	23.2	163	609	0.395	31.5	<1	35.1	1610
IP1219	1.00-	141107-6	03/11/2014	07/11/2014	26/11/2014	-	7.23	101	1.04	15.8	227	596	<0.14	33.9	1.3	18.7	1270
IP1219	2.00-	141107-6	03/11/2014	07/11/2014	09/01/2015	-	7.33	28.9	0.821	13.3	116	113	1.06	49.4	<1	34.2	293
IP1219	3.00-	141107-6	03/11/2014	07/11/2014	26/11/2014	-	7.58	18.3	0.323	10.7	78.4	42.9	0.316	32.6	<1	29.8	291
IP1220	1.00-	141107-6	03/11/2014	07/11/2014	09/01/2015	3.65	7.48	102	0.973	16.9	705	825	<0.14	33.7	1.31	20.9	1710
IP1221	1.00-	141107-6	03/11/2014	07/11/2014	26/11/2014	-	7.82	100	1.11	16.9	344	873	<0.14	42.5	1.17	21.4	1800
IP1221	2.00-	141107-6	03/11/2014	07/11/2014	26/11/2014	-	7.35	24.3	0.0547	9.93	54.9	131	0.255	41.2	<1	38.1	149
IP1221	3.00-	141107-6	03/11/2014	07/11/2014	26/11/2014	-	7.78	12.6	0.0353	10.9	47.6	76.8	<0.14	24.3	<1	28.1	165
IP1222	0.50-	141107-6	03/11/2014	07/11/2014	09/01/2015	-	8.22	59.8	1.05	16.6	226	750	<0.14	33.5	<1	21.1	1220
IP1222	1.50-	141107-6	03/11/2014	07/11/2014	25/11/2014	-	7.24	29.8	0.438	11.3	121	212	0.409	29.8	<1	27	489
IP1222	2.50-	141107-6	03/11/2014	07/11/2014	26/11/2014	-	7.67	24.6	0.13	15.4	99.7	196	0.689	32.3	<1	26.2	427
IP1222	3.50-	141107-6	03/11/2014	07/11/2014	25/11/2014	5.76	6.16	92.7	1.01	13	109	54.4	<0.14	9.14	<1	23.1	51.9
IP1223	0.50-	141107-6	03/11/2014	07/11/2014	09/01/2015	-	8.48	77.8	0.895	16.8	348	1440	<0.14	41	<1	24.4	2580
IP1223	1.50-	141107-6	03/11/2014	07/11/2014	08/01/2015	-	7.65	28.1	0.513	23.4	134	328	3.9	27.9	<1	32.7	532
IP1223	2.50-	141107-6	03/11/2014	07/11/2014	26/11/2014	-	7.64	11.6	<0.02	10.6	53.3	54.6	0.172	30.5	<1	33.6	117
IP1223	3.50-	141107-6	03/11/2014	07/11/2014	26/11/2014	3.65	7.91	44.7	0.263	11.1	81.1	27.1	<0.14	5.9	<1	25.2	55.7
IP1224	0.50-	141107-6	03/11/2014	07/11/2014	09/01/2015	-	7.83	127	1.63	20	525	1970	<0.14	42.8	<1	23.2	3410
IP1224	1.00-	141107-6	03/11/2014	07/11/2014	26/11/2014	-	6.99	15.6	0.0972	11.1	76.4	102	<0.14	35.8	<1	36.9	142
IP1224	2.00-	141107-6	03/11/2014	07/11/2014	09/01/2015	-	6.85	26.7	<0.02	20.3	140	22.9	1.03	78.8	<1	80.2	49.7
IP1224	3.00-	141107-6	03/11/2014	07/11/2014	25/11/2014	0.391	7.46	11.6	0.456	6.99	34	35	0.455	13.6	<1	14.9	754
IP1226	0.50-	141111-55	10/11/2014	11/11/2014	20/01/2015	6.43	8.32	32.5	0.701	74.2	170	681	0.721	28.1	2.77	33.3	1750
IP1226	1.50-	141111-55	10/11/2014	11/11/2014	01/12/2014	-	7.94	29.5	0.945	30.9	112	260	0.893	30.9	<1	29.7	617
IP1227	0.50-	14															