CERTIFICATE OF ANALYSIS

SDG:	150917-82	**Location:**	Coed Darcy	**Order Number:**	CD1407
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333323
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	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)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
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.

CERTIFICATE OF ANALYSIS

SDG:	150917-82	**Location:**	Coed Darcy	**Order Number:**	CD1407
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Test Completion Dates

Lab Sample No(s)	12080435	12080485	12080534	12080583	12080614	12080619	12080624	12080628	12080634	12080439
Customer Sample Ref.	MP70 BF 46	MP70 BF 47	MP70 BF 48	MP70 BF 49	MP70 BF 50	MP70 BF 51	MP70 BF 52	MP70 BF 53	MP70 BF 54	MP70 BF 55
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	25-Sep-2015	24-Sep-2015	24-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015
Asbestos Quant. Detail Gravimetric	06-Oct-2015	07-Oct-2015			05-Oct-2015	12-Oct-2015				06-Oct-2015
Asbestos Quantification - Full			07-Oct-2015	12-Oct-2015					13-Oct-2015	
EPH CWG (Aliphatic) GC (S)	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015
EPH CWG (Aromatic) GC (S)	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015
GRO by GC-FID (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
Metals in solid samples by OES	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015
PAH by GCMS	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015
pH	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015
Sample description	22-Sep-2015	22-Sep-2015	18-Sep-2015	22-Sep-2015	18-Sep-2015	22-Sep-2015	18-Sep-2015	22-Sep-2015	18-Sep-2015	18-Sep-2015
Total Organic Carbon	24-Sep-2015	24-Sep-2015	24-Sep-2015	25-Sep-2015	24-Sep-2015	24-Sep-2015	22-Sep-2015	24-Sep-2015	22-Sep-2015	22-Sep-2015
TPH CWG GC (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
VOC MS (S)	24-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015

Lab Sample No(s)	12080444	12080448	12080453	12080457	12080461	12080465	12080469	12080473	12080479	12080491
Customer Sample Ref.	MP70 BF 56	MP70 BF 57	MP70 BF 58	MP70 BF 59	MP70 BF 60	MP70 BF 61	MP70 BF 62	MP70 BF 63	MP70 BF 64	MP70 BF 65
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015
Asbestos Quant. Detail Gravimetric	06-Oct-2015	06-Oct-2015	06-Oct-2015	05-Oct-2015		05-Oct-2015	06-Oct-2015	07-Oct-2015		
Asbestos Quantification - Full									07-Oct-2015	07-Oct-2015
EPH CWG (Aliphatic) GC (S)	22-Sep-2015	22-Sep-2015	22-Sep-2015	21-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015
EPH CWG (Aromatic) GC (S)	22-Sep-2015	22-Sep-2015	22-Sep-2015	21-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015
GRO by GC-FID (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
Metals in solid samples by OES	24-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
PAH by GCMS	22-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	21-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015	24-Sep-2015
pH	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	22-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015
Sample description	18-Sep-2015	18-Sep-2015	18-Sep-2015	17-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015
Total Organic Carbon	24-Sep-2015	24-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
TPH CWG GC (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
VOC MS (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	25-Sep-2015	25-Sep-2015

Lab Sample No(s)	12080496	12080500	12080504	12080508	12080512	12080516	12080520	12080525	12080530	12080538
Customer Sample Ref.	MP70 BF 66	MP70 BF 67	MP70 BF 68	MP70 BF 69	MP70 BF 70	MP70 BF 71	MP70 BF 72	MP70 BF 73	MP70 BF 74	MP70 BF 75
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015
Asbestos Quant. Detail Gravimetric	07-Oct-2015		08-Oct-2015		05-Oct-2015	05-Oct-2015	07-Oct-2015	08-Oct-2015		
Asbestos Quantification - Full		07-Oct-2015		07-Oct-2015						07-Oct-2015
EPH CWG (Aliphatic) GC (S)	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	21-Sep-2015	21-Sep-2015	22-Sep-2015
EPH CWG (Aromatic) GC (S)	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	21-Sep-2015	21-Sep-2015	22-Sep-2015
GRO by GC-FID (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
Metals in solid samples by OES	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
PAH by GCMS	24-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015
pH	24-Sep-2015	24-Sep-2015	22-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
Sample description	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015
Total Organic Carbon	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015
TPH CWG GC (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
VOC MS (S)	24-Sep-2015	25-Sep-2015	25-Sep-2015	24-Sep-2015	24-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015

CERTIFICATE OF ANALYSIS

SDG:	150917-82	**Location:**	Coed Darcy	**Order Number:**	CD1407
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333323
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Lab Sample No(s)	12080542	12080547	12080552	12080556	12080560	12080565	12080569	12080573	12080579	12080587
Customer Sample Ref.	MP70 BF 76	MP70 BF 77	MP70 BF 78	MP70 BF 79	MP70 BF 80	MP70 BF 81	MP70 BF 82	MP70 BF 83	MP70 BF 84	MP70 BF 85
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	24-Sep-2015
Asbestos Quant. Detail Gravimetric	08-Oct-2015	08-Oct-2015			05-Oct-2015	05-Oct-2015				
Asbestos Quantification - Full				09-Oct-2015			09-Oct-2015	09-Oct-2015	09-Oct-2015	
EPH CWG (Aliphatic) GC (S)	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015
EPH CWG (Aromatic) GC (S)	23-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015
GRO by GC-FID (S)	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
Metals in solid samples by OES	25-Sep-2015	23-Sep-2015	25-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	23-Sep-2015
PAH by GCMS	23-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015
pH	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015
Sample description	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015
Total Organic Carbon	24-Sep-2015	22-Sep-2015	24-Sep-2015	22-Sep-2015	22-Sep-2015	24-Sep-2015	22-Sep-2015	24-Sep-2015	24-Sep-2015	22-Sep-2015
TPH CWG GC (S)	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
VOC MS (S)	24-Sep-2015	24-Sep-2015	26-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015

Lab Sample No(s)	12080592	12080597	12080601	12080605	12080610
Customer Sample Ref.	MP70 BF 86	MP70 BF 87	MP70 BF 88	MP70 BF 89	MP70 BF 90
AGS Ref.					
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
Asbestos Quant. Detail Gravimetric		05-Oct-2015		12-Oct-2015	
Asbestos Quantification - Full	12-Oct-2015				13-Oct-2015
EPH CWG (Aliphatic) GC (S)	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015
EPH CWG (Aromatic) GC (S)	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015
GRO by GC-FID (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	25-Sep-2015	23-Sep-2015
Metals in solid samples by OES	24-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015
PAH by GCMS	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015
pH	22-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
Sample description	18-Sep-2015	18-Sep-2015	18-Sep-2015	22-Sep-2015	18-Sep-2015
Total Organic Carbon	24-Sep-2015	24-Sep-2015	22-Sep-2015	24-Sep-2015	22-Sep-2015
TPH CWG GC (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	25-Sep-2015	23-Sep-2015
VOC MS (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	26-Sep-2015

SDG:	150917-82	**Location:**	Coed Darcy	**Order Number:**	CD1407
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333323
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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 Dimethyphenol, 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 presevation 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.

Monitor Phase 70- South East Margin Backfill

Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	Soil Organic Matter (SOM)	pH	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc	Aliphatics >C10-C12	Aliphatics >C12-C16	Aliphatics >C16-C21	Aliphatics >C21-C35	Aliphatics >C35-C44	Aliphatics >C5-C6	Aliphatics >C6-C8	Aliphatics >C8-C10	Aromatics >EC10-EC12	Aromatics >EC12-EC16	Aromatics >EC16-EC21	Aromatics >EC21-EC35	Aromatics >EC35-EC44	Aromatics >EC40-EC44	Aromatics >EC5-EC7	Aromatics >EC7-EC8	Aromatics >EC8-EC10	Benzene	Ethylbenzene	GRO Surrogate % recovery**	GRO TOT (Moisture Corrected)	m,p-Xylene	Methyl tertiary butyl ether (MTBE)
					%	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg
				>1m Commercial																											71000	617000	547000	5000					
MP70 BF 1	150917-84	0.00-0.00	16/09/2015	17/09/2015	3.31	7.93	33.9	0.69	18.7	160	104	0.972	33.4	<1	24.3	299	334	13800	23700	59800	20500	<40	57.7	108	223	11200	53500	128000	47400	18900	<40	<40	75.5	<40	<12	71	819	<24	<20
MP70 BF 10	150917-84	0.00-0.00	16/09/2015	17/09/2015	4.48	7.96	19.6	0.581	14.8	73.6	77.9	0.486	24.7	<1	19.4	182	194	47100	49100	92800	25700	<40	102	120	129	6150	15800	64200	30700	12500	<40	<40	83.3	<40	<12	17	639	<24	<20
MP70 BF 11	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.84	8.02	18.9	0.311	17.1	55.8	63.9	0.787	35.1	<1	19.1	156	968	37800	59700	279000	69100	<40	94.6	375	646	11400	45200	118000	43400	16100	<40	59.4	278	<40	<12	74	2440	<24	<20
MP70 BF 12	150917-84	0.00-0.00	16/09/2015	17/09/2015	4.24	7.98	32.4	0.856	17.8	154	163	1.05	29.9	<1	27	368	2330	28500	35400	72700	26000	<40	210	1120	1560	7700	19000	69200	33100	13600	<40	<40	749	<40	<12	72	5990	<24	<20
MP70 BF 13	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.69	8	16	0.357	14.9	38.1	54.6	0.706	33.9	<1	18.1	142	4070	128000	160000	584000	215000	91.6	416	2020	2710	28900	92300	235000	81100	29500	<40	253	1350	<40	<12	71	10900	<24	<20
MP70 BF 14	150917-84	0.00-0.00	16/09/2015	17/09/2015	5.22	7.98	32.8	0.825	21.6	125	126	1.48	30.7	<1	23.7	299	2380	31800	55300	134000	44300	<40	218	1240	1590	4010	25000	110000	52700	21200	<40	<40	825	<40	<12	66	6270	<24	<20
MP70 BF 15	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.29	8.23	22	0.6	15.5	75.9	72.7	0.778	25.6	<1	22	237	109	17500	34600	105000	36300	<10	12.2	33.3	73.3	2980	14700	70600	39000	16400	<10	<10	22.2	<10	<3	74	255	<6	<5
MP70 BF 16	150917-84	0.00-0.00	16/09/2015	17/09/2015	7.34	7.8	45.6	0.958	19.4	156	141	1.1	33.7	<1	29.7	319	4350	88300	88600	170000	45800	<40	129	1690	2900	10500	30300	137000	71100	29300	<40	<40	1140	<40	<12	60	10200	<24	<20
MP70 BF 17	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.12	8.27	19.7	0.349	14.3	51.7	60.4	0.585	35	<1	17.2	172	1920	63600	63300	150000	43900	<40	179	725	1280	16900	31400	103000	43200	16700	<40	<40	488	<40	<12	74	4660	<24	<20
MP70 BF 18	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.33	8.19	17.7	0.323	16.7	54.2	85.2	<0.14	39.4	<1	18.7	164	2100	76800	48900	61800	11900	<40	127	804	1400	17600	28100	62400	23100	8780	<40	<40	548	<40	<12	64	5050	<24	<20
MP70 BF 19	150917-84	0.00-0.00	16/09/2015	17/09/2015	4.09	8.07	29.3	0.596	27	91.6	82.5	0.908	26.3	<1	29.9	205	4320	31300	52700	158000	50100	<40	133	1510	2880	6960	26900	130000	76300	31300	<40	<40	1000	<40	<12	75	9870	<24	<20
MP70 BF 2	150917-84	0.00-0.00	16/09/2015	17/09/2015	4.79	8.05	25.5	0.606	15.1	94.7	99.8	0.681	23.6	<1	24.8	218	1940	14000	27500	112000	20600	<40	114	840	1290	5280	22300	110000	48700	17500	<40	<40	561	<40	<12	64	4770	<24	<20
MP70 BF 20	150917-84	0.00-0.00	16/09/2015	17/09/2015	5.93	7.71	32.7	1.21	18.1	84.6	111	0.41	31.1	<1	23.2	249	667	33000	63000	248000	70100	<40	84.8	232	444	4490	29700	219000	116000	45500	<40	<40	155	<40	<12	71	1600	<24	<20
MP70 BF 21	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.9	8.07	13.8	0.642	16.7	29.3	57.6	0.234	19.6	<1	27	202	584	8580	16100	51900	18600	<40	62.7	243	390	2050	7020	37900	22300	9240	<40	<40	165	<40	<12	64	1470	<24	<20
MP70 BF 22	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.26	7.89	12.7	0.209	16.1	20.3	21.9	<0.14	42.7	<1	15.1	106	6080	8410	7260	2970	<100	62.7	3170	6350	4050	766	1670	1870	592	<100	58.2	<40	4230	58.2	<12	87	24000	<24	<20
MP70 BF 23	150917-84	0.00-0.00	16/09/2015	17/09/2015	4.91	7.92	27.7	0.725	19	75.5	110	2.9	24.8	<1	23.8	196	3760	126000	118000	221000	76600	<40	209	1470	2510	17100	50700	180000	87800	35900	<40	<40	979	<40	<12	80	8950	<24	<20
MP70 BF 24	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.4	8.18	18.9	1	23	40	91.8	<0.14	36.9	1.14	34.5	277	84	19000	21700	54800	18800	<40	<40	<40	56.4	2970	13700	60400	29000	12000	<40	<40	<40	<40	<12	97	231	<24	<20
MP70 BF 25	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.33	8.08	17.4	1.27	23	26.8	84.8	<0.14	26	1.74	36.9	371	1350	<100	<100	22600	19900	<40	124	501	901	1220	7490	30000	10600	4200	<40	<40	333	<40	<12	81	3230	<24	<20
MP70 BF 26	150917-84	0.00-0.00	16/09/2015	17/09/2015	3.72	8	24.5	0.91	17.2	72.8	111	1.02	32.4	<1	22.9	218	4770	108000	84500	135000	42300	<40	345	2850	3180	22400	38100	125000	58300	24000	<40	<40	1900	<40	<12	84	13100	<24	<20
MP70 BF 27	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.34	8.42	19.1	0.456	16	77.4	82.5	1.43	34.4	<1	18.2	244	6340	110000	104000	136000	33300	42.7	535	3360	4220	27500	57500	159000	78200	30600	<40	<40	2240	<40	<12	82	16700	<24	<20
MP70 BF 28	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.29	8	19.8	0.612	16.8	36.5	86.3	1.19	23.5	<1	26.4	303	12000	101000	97700	125000	29400	72.8	3090	9870	7990	28400	53500	135000	53100	19700	<40	<40	6580	<40	<12	89	39600	<24	<20
MP70 BF 29	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.27	8.06	16.8	1.54	22	25.9	79.3	<0.14	23	<1	35.5	388	<40	<100	<100	9080	<100	<40	<40	<40	<40	590	2790	16300	10300	4070	<40	<40	<40	<40	<12	94	<176	<24	<20
MP70 BF 3	150917-84	0.00-0.00	16/09/2015	17/09/2015	4.69	8.03	26.1	0.661	16.9	113	96.6	1.13	32.5	<1	20.2	249	1500	76000	96500	272000	122000	<40	62.8	509	1000	15200	43600	161000	72800	27200	<40	<40	350	<40	<12	73	3450	<24	<20
MP70 BF 30	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.67	7.15	14	0.425	15.4	40.2	56.8	0.153	28.8	<1	18.7	154	1950	84200	56000	87100	25400	<40	151	764	1300	20700	36000	84300	32600	13300	<40	<40	509	<40	<12	95	4710	<24	<20
MP70 BF 31	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.79	7.96	31.5	1.91	17	81.3	69.6	2.54	27.2	<1	21.2	221	333	127000	137000	209000	48100	<40	129	202	223	29100	71300	196000	74600	28400	<40	<40	134	<40	<12	11	1040	<24	<20
MP70 BF 32	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.36	8.06	31.1	0.848	17.3	82	76.6	0.913	26.2	<1	22.2	203	5130	168000	311000	602000	154000	58.1	1330	3330	3420	41100	177000	617000	202000	69600	<40	<40	2220	<40	<12	81	15500	<24	<20
MP70 BF 33	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.41	8.08	23.1	0.558	16.6	61.8	52.3	0.533	32.8	<1	17.5	209	2750	133000	139000	266000	71700	<40	211	1050	1840	32700	82600	297000	110000	40500	<40	<40	700	<40	<12	78	6580	<24	<20
MP70 BF 34	150917-84	0.00-0.00	16/09/2015	17/09/2015	13.3	8.03	36	0.795	16.4	169	137	0.512	28.5	<1	23.8	420	1610	28300	42100	109000	28500	<40	157	980	1080	3660	17700	90900	43900	17800	<40	<40	653	<40	<12	77	4510	<24	<20
MP70 BF 35	150917-84	0.00-0.00	16/09/2015	17/09/2015	7.48	8.15	33.1	0.779	18.3	166	119	0.519	31.1	<1	26	218	675	41100	35800	106000	29900	<40	97.8	346	451	3780	12200	94500	56600	23300	<40	<40	238	<40	<12	70	1840	<24	<20
MP70 BF 36	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.32	8.03	19.3	1.45	24.5	22.4	89.2	<0.14	26.9	2.11	43	483	42.5	<100	543	9030	1960	<40	<40	<40	<40	190	3090	15100	9100	4520	<40	<40	<40	<40	<12	100	<176	<24	<20
MP70 BF 37	150917-84	0.00-0.00	16/09/2015	17/09/2015	10	8.05	23.9	0.675	48.7	110	90.8	0.437	23.2	<1	32.5	199	1150	23400	28900	93600	26400	<40	116	566	766	5360	14700	93200	52600	21200	<40	<40	396	<40	<12	82	3030	<24	<20
MP70 BF 38	150917-84	0.00-0.00	16/09/2015	17/09/2015	3.02	8.05	31.8	0.975	21.3	96.9	218	0.778	33.9	<1	26	490	4290	81000	81600	165000	56800	<40	1120	3750	2860	12100	30100	126000	64800	28100	<40	<40	2500	<40	<12	85	14600	<24	<20
MP70 BF 4	150917-84	0.00-0.00	16/09/2015	17/09/2015	3.91	8.04	22.5	0.59	18.4	102	90.7	0.934	28.7	<1	25	211	1830	59300	67600	178000	49700	<40	111	642	1220	14100	37700	133000	61700	23100	<40	<40	431	<40	<12	61	4270	<24	<20
MP70 BF 40	150917-84	0.00-0.00	16/09/2015	17/09/2015	6.5	8.08	34.5	0.547	67.5	90.8	84.2	0.319	29	<1	31.8	178	2180	45900	61000	116000	23800	<40	96.6	856	1450	8850	76700	247000	89200	33800	<40	<40	570	<40	<12	67	5170	<24	<20
MP70 BF 41	150917-84	0.00-0.00	16/09/2015	17/09/2015	5.29	8.18	25.2	1.26	22.5	65.7	102	<0.14	37.2	1.63	34	339	3170	35400	39900	73500	19400	<40	479	2720	2110	11000	40600	137000	52000	19600	<40	<40	1810	<40	<12	112	10300	<24	<20
MP70 BF 42	150917-84	0.00-0.00	16/09/2015	17/09/2015	3.98	7.98	23.8	0.659	16	85.2	130	1.39	27.7	<1	19.6	246	6380	46300	58100	100000	23000	<40	624	5620	4250	3890	21400	119000	61200	25000	<40	<40	3750	<40	<12	87	20600	<24	<20
MP70 BF 43	150917-84	0.00-0.00	16/09/2015	17/09/2015	5.72	7.66	35	0.903	16.8	96.3	248	34.2	25.3	<1	23.6	243	5830	78900	43600	70400	23200	<40	1300	6610	3880	8580	15800	84400	58400	26400	<40	<40	4410	<40	<12	93	22000	<24	<20
MP70 BF 44	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.13	8.28	16.4	0.404	26.1	27	67.9	<0.14	23	<1	37	169	67.9	<100	<100	1980	298	<40	<40	<40	45.6	<100	1140	10100	10800	5930	<40	<40	<40	<40	<12	87	<176	<24	<20
MP70 BF 45	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.22	8.04	18.1	0.658	18.4	41.7	82.3	0.537	23.2	<1	27.1	175	1080	31500	37000	67800	18500	<40	138	534	721	2540	12900	68500	34200	14300	<40	<40	405	<40	<12	72	2890	<24	<20
MP70 BF 5	150917-84	0.00-0.00	16/09/2015	17/09/2015	3.5	8.04	22.1	0.677	16.8	91.4	106	0.971	29.7	<1	20.4	231	1740	69000	79000	196000	54500	<40	130	679	1160	14100	39700	141000	57300	20500	<40	<40	461	<40	<12	62	4230	<24	<20
MP70 BF 6	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.56	8.68	26	2.71	33.1	28.2	125	<0.14	34.6	2.79	70.6	884	2120	5000	15600	36100	13300	<40	65	321	1410	2140	7720	38000	19600	8560	<40	<40	223	<40	<12	87	4170	<24	<20
MP70 BF 7	150917-84	0.00-0.00	16/09/2015	17/09/2015	1.59	8.33	14.1	0.263	11.6	28.1	50.1	0.619	37.7	<1	15.1	142	4050	679000	<100	894000	368000	<40	264	1110	2700	78400	210000	331000	127000	51900	<40	964	779	<40	27.7	57	9920	<24	<20
MP70 BF 8	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.67	8.12	14.6	0.347	20.6	42.7	52.5	0.459	40.3	<1	23.5	149	843	27700	31000	74800	29400	<40	54.9	249	562	7840	18800	58000	25000	10100	<40	40.3	174	<40	<12	71	1960	<24	<20
MP70 BF 9	150917-84	0.00-0.00	16/09/2015	17/09/2015	2.79	8.17	17.9	0.677	15.1	50.7	67.1	2.83	25.8	<1	24.1	213	744	47300	63100	234000	77200	<40	149	359	496	10700	37400	143000	67600	26700	<40	<40	246	<40	<12	68	2070	<24	<20
MP70 BF39	150917-84	0.00-0.00	16/09/2015	17/09/2015	4.34	7.98	30.2	0.617	24.5	86	136	0.539	27.8	<1	24.2	315	2720	63600	67900	134000	41200	<40	264	1420	1810	7180	33000	136000	66700	27100	<40	<40	949	<40	<12	77	7190	<24	<20
MP70 BF 46	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.21	7.79	27.7	0.543	17.9	57.8	182	0.357	27.8	<1	20.3	350	13200	112000	70000	115000	29900	<40	5790	12700	8800	19400	27900	77600	35400	13900	<40	<40	8450	<40	<12	80	49000	<24	<20
MP70 BF 47	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.69	8.12	21.4	0.585	16.6	65.3	82.3	0.686	29.8	<1	20.6	194	2530	24600	29700	97300	28400	<40	447	2190	1690	4460	13900	68400	32300	13200	<40	<40	1460	<40	<12	77	8330	<24	<20
MP70 BF 48	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.65	8.09	19.4	0.515	15.7	57.1	79.8	0.358	28.3	<1	19.9	176	1990	62800	115000	395000	194000	<40	234	1240	1330	18400	67400	234000	124000	51900	<40	<40	824	<40	<12	76	5630	<24	<20
MP70 BF 49	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.4	7.68	36.9	0.759	15.5	72.5	51.2	0.18	24.4	<1	18.7	171	28200	126000	30800	43900	7050	173	57400	61100	18800	15700	10900	39800	18200	7540	110	<40	40700	110	<12	97	207000	<24	<20
MP70 BF 50	150917-82	0.00-0.00	16/09/2015	17/09/2015	3.9	8.05	22.4	0.539	15.9	56.7	87.6	0.861	32.6	<1	19.3	229	2660	44400	43300	98300	27200	<40	264	1300	1770	12500	29400	101000	53000	21600	<40	<40	865	<40	<12	77	6880	<24	<20
MP70 BF 51	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.26	7.98	17.4	0.423	14.8	51.2	56.7	0.332	27.2	<1	19.7	144	14500	26800	25200	62800	16100	67.7	25100	45800	9670	3140	7890	31600	14500	5630	137	<40	30600	137	<12	95	126000	<24	<20
MP70 BF 52	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.62	7.87	31.3	1.08	20.1	108	420	0.409	32.5	<1	23.3	1560	516	71600	164000	131000	31000	<40	162	480	345	15700	90500	158000	51500	19600	<40	<40	320	<40	<12	73	1840	<24	<20
MP70 BF 53	150917-82	0.00-0.00	16/09/2015	17/09/2015	1.76	7.3	11.8	0.35	16.8	35.8	28.8	<0.14	38	<1	17.9	111	18600	40100	18600	31300	6200	44.5	4240	14200	12400	5700	9460	31400	12400	5120	<40	<40	9440	<40	<12	102	58900	<24	<20
MP70 BF 54	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.57	8.21	17.5	0.501	14.2	45.5	67.9	0.678	26.5	<1	17.5	159	3080	27200	30900	91700	41200	<40	399	1920	2050	7440	19000	63900	29800	11600	<40	<40	1280	<40	<12	81	8740	<24	<20
MP70 BF 55	150917-82	0.00-0.00	16/09/2015	17/09/2015	3.52	8.1	17.4	0.448	14.3	45.1	64.7	0.653	26.3	<1	17.3	154	1950	74300	148000	156000	17200	<40	200	946	1300	25600	81000	137000	32500	12400	<40	<40	630	<40	<12	73	5050	<24	<20
MP70 BF 56	150917-82	0.00-0.00	16/09/2015	17/09/2015	8.24	7.93	20.3	0.514	16.1	59.5	98.4	0.576	32	<1	20.2	229	1610	30600	36300	98900	52500	<40	129	779	1080	7930	20100	63600	27700	10700	<40	<40	519	<40	<12	84	4130	<24	<20
MP70 BF 57	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.26	8.04	16.7	0.447	15.6	39.9	51.6	0.327	27.6	<1	18.9	135	1130	15100	22200	49500	20400	<40	219	667	751	2690	9230	38900	18800	8240	<40	<40	445	<40	<12	87	3230	<24	<20
MP70 BF 58	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.69	7.88	37.8	1.07	29	68.6	396	0.905	37.4	<1	28.7	805	5910	63800	42900	133000	48400	<40	2390	5630	3940	16200	29900	110000	62300	25700	<40	57.2	3760	<40	<12	80	21700	<24	<20
MP70 BF 59	150917-82	0.00-0.00	16/09/2015	17/09/2015	1.91	8.12	13.5	0.355	15.1	36.8	36	0.459	28.1	<1	15.5	243	3050	30700	36500	78800	29900	<40	1020	3720	2040	7270	14900	49000	24200	10100	<40	<40	2480	<40	<12	92	12300	<24	<20
MP70 BF 60	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.4	7.97	22.8	0.68	17.9	60.5	227	0.277	29.7	<1	19.8	497	319	6770	24900	303000	31600	<40	53.1	148	212	4030	17100	68500	33700	14400	<40	<40	98.3	<40	<12	85	845	<24	<20
MP70 BF 61	150917-82	0.00-0.00	16/09/2015	17/09/2015	1.67	7.93	13	0.428	13.5	38.1	35	0.247	25	<1	15.8	119	1080	39300	47900	118000	23000	<40	170	632	717	11100	27400	65400	22700	7450	<40	<40	421	<40	<12	121	3040	<24	<20
MP70 BF 62	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.79	8.26	21.2	0.604	17	66.9	796	1.12	30.7	<1	19	196	1450	23200	31000	134000	23600	<40	139	749	969	7610	21600	76900	29700	11200	<40	<40	499	<40	<12	87	3830	<24	<20
MP70 BF 63	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.31	8.02	27.4	0.972	18.1	90.4	760	1.13	29.3	<1	20.7	273	10200	50000	45500	84600	29500	<40	2780	7880	6820	22600	110000	350000	106000	36200	<40	<40	5390	<40	<12	91	33100	<24	<20
MP70 BF 64	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.81	7.66	19.4	0.538	13.9	40.7	67.2	0.149	25.8	<1	17.1	140	823	12200	19500	88700	27600	<40	120	419	549	6890	27800	107000	49700	19800	<40	<40	279	<40	<12	78	2200	<24	<20
MP70 BF 65	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.5	7.96	18.3	0.506	13.7	35.8	53.1	<0.14	30.2	<1	15.9	137	959	9790	11000	40400	18100	<40	262	578	640	3480	6470	30900	22500	10700	<40	<40	386	<40	<12	93	2870	<24	<20
MP70 BF 66	150917-82	0.00-0.00	16/09/2015	17/09/2015	3.19	8.13	26.4	0.643	27.9	62.9	102	0.673	37.1	<1	69.6	276	3390	67600	71600	194000	55900	<40	293	2050	2260	13400	34300	120000	54600	22700	<40	<40	1390	<40	<12	88	9400	<24	<20
MP70 BF 67	150917-82	0.00-0.00	16/09/2015	17/09/2015	1.93	7.92	21.2	0.578	15.4	53.6	71.1	0.91	24.6	<1	18.2	189	4010	58800	97100	268000	56300	<40	669	3190	2670	10200	42300	170000	62300	25400	<40	<40	2130	<40	<12	82	12700	<24	<20
MP70 BF 68	150917-82	0.00-0.00	16/09/2015	17/09/2015	5.43	7.97	29.4	0.755	16.7	96.3	108	0.681	27	<1	22.2	244	2800	28700	33300	82400	21700	<40	254	1420	1860	4810	16700	90200	43600	17200	<40	<40	1060	<40	50.3	76	7420	<24	<20
MP70 BF 69	150917-82	0.00-0.00	16/09/2015	17/09/2015	4.95	7.74	34.5	0.695	18.8	84.8	111	1.2	28.7	<1	26.3	272	4150	113000	108000	156000	50100	<40	777	2700	2760	24100	59400	178000	82200	33200	<40	<40	1920	<40	<12	84	12300	<24	<20
MP70 BF 70	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.88	7.95	32.7	0.585	16.6	80.5	79.8	0.987	32.9	<1	21.2	196	3940	39900	42400	61900	12400	41	1190	2640	2630	10900	27700	73000	29900	11700	<40	<40	1760	<40	<12	75	12200	<24	<20
MP70 BF 71	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.09	8.04	21.7	0.402	16.3	52	70.8	0.73	29.9	<1	22.1	162	278	10100	30800	74500	19700	<40	<40	71.9	185	2460	15600	61900	29800	11900	<40	<40	48	<40	<12	91	610	<24	<20
MP70 BF 72	150917-82	0.00-0.00	16/09/2015	17/09/2015	7.93	7.96	24.7	0.615	15.7	90.4	92.6	0.492	26.9	<1	22.3	220	561	21300	30600	91900	35100	<40	45.2	157	375	3610	20300	131000	52100	20100	<40	<40	108	<40	<12	66	1260	<24	<20
MP70 BF 73	150917-82	0.00-0.00	16/09/2015	17/09/2015	4.67	7.73	35.3	0.813	16.9	95.2	104	7.96	24.6	<1	23.8	227	3700	86800	57100	93100	21800	<40	917	2880	2470	23400	42500	146000	63700	25400	<40	<40	1920	<40	<12	69	11900	<24	<20
MP70 BF 74	150917-82	0.00-0.00	16/09/2015	17/09/2015	4.76	7.91	26	0.604	16.4	146	86.8	0.483	28.9	<1	21.9	206	3360	54400	65900	118000	33100	<40	705	1980	2240	13800	42300	137000	53200	20900	<40	<40	1320	<40	<12	77	9660	<24	<20
MP70 BF 75	150917-82	0.00-0.00	16/09/2015	17/09/2015	3.05	8.36	16.8	0.38	13.5	40.1	62.9	0.738	23.3	<1	16	199	<40	4590	22900	62400	22500	<40	<40	<40	<40	2150	12200	81500	39900	15700	<40	<40	<40	<40	<12	89	<176	<24	<20
MP70 BF 76	150917-82	0.00-0.00	16/09/2015	17/09/2015	3.07	8.34	21.1	0.781	18.8	52.3	95.4	0.255	36.6	<1	21.2	340	161	11400	49500	151000	41800	<40	54.6	94.9	108	3010	26200	227000	107000	45500	<40	<40	68.7	<40	<12	77	502	<24	<20
MP70 BF 77	150917-82	0.00-0.00	16/09/2015	17/09/2015	3.93	7.79	35.4	1	17.8	121	358	0.543	30.4	<1	23.7	398	1730	59600	60200	117000	37700	<40	301	1250	1150	14800	35700	144000	71500	29200	<40	<40	831	<40	<12	79	5280	<24	<20
MP70 BF 78	150917-82	0.00-0.00	16/09/2015	17/09/2015	1.21	10.8	10.3	0.188	14.7	19.4	18.1	<0.14	26.5	<1	16.1	81.1	3080	69800	64700	58800	8620	96.6	1410	1740	2050	19900	31900	41700	12200	3990	<40	<40	1160	<40	<12	92	9580	<24	<20
MP70 BF 79	150917-82	0.00-0.00	16/09/2015	17/09/2015	1.12	11.6	12.1	0.139	13	16.1	23.1	0.194	30	<1	13.6	88.5	18000	45400	28300	16800	3130	1090	17200	17600	12000	17800	16400	21800	8330	3450	121	<40	11700	121	<12	111	77600	<24	<20
MP70 BF 80	150917-82	0.00-0.00	16/09/2015	17/09/2015	1.83	8.23	28.4	0.529	24.8	61.7	99	0.552	29.5	<1	21.9	249	85.9	4240	25000	79500	18500	<40	46.3	59.9	57.6	1870	9730	84500	39600	16000	<40	<40	42.9	<40	<12	85	313	<24	<20
MP70 BF 81	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.19	7.95	15.4	0.428	14.6	37.4	58.5	0.231	29.1	<1	15.7	125	280	17800	35100	100000	41100	<40	<40	80.4	187	6140	25900	101000	41700	16800	<40	<40	55.4	<40	<12	73	648	<24	<20
MP70 BF 82	150917-82	0.00-0.00	16/09/2015	17/09/2015	3.24	8.2	30.1	1.22	18.8	72.9	259	0.677	30.1	<1	25.4	688	1770	7190	25800	92500	32300	<40	503	1510	1180	2700	12300	95400	54900	23000	<40	<40	1010	<40	<12	79	6000	<24	<20
MP70 BF 83	150917-82	0.00-0.00	16/09/2015	17/09/2015	3.59	7.83	28.2	0.656	43.6	83.3	310	0.165	24.8	<1	42.3	213	3630	53800	44100	72500	15800	<40	484	2750	2420	14800	34500	117000	50900	20000	<40	<40	1840	<40	<12	78	11100	<24	<20
MP70 BF 84	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.05	8.58	21.3	0.511	17.8	62	87.4	0.247	34.5	<1	21.1	439	284	6650	22500	75300	17600	<40	77.4	66.5	190	1680	10200	65300	26700	9940	<40	<40	52.3	<40	<12	84	709	<24	<20
MP70 BF 85	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.69	8.07	7.31	0.18	17.5	12.4	32.5	<0.14	35.2	<1	16.8	102	3450	<100	<100	<100	<100	57.5	838	2180	2300	2450	4170	15300	6700	2340	<40	<40	1460	<40	<12	74	10300	<24	<20
MP70 BF 86	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.45	8.21	19	0.56	15.2	68.4	75.2	0.573	27.7	<1	18.1	171	3830	36300	40900	98700	38500	<40	148	1460	2550	9580	25200	109000	54300	21600	<40	<40	976	<40	<12	79	8990	<24	<20
MP70 BF 87	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.65	8.2	19.7	0.702	16.6	59	155	0.186	29.4	<1	21.4	340	1770	12100	31200	76100	30500	<40	432	1460	1180	5020	22400	88200	58600	28300	<40	<40	971	<40	<12	85	5830	<24	<20
MP70 BF 88	150917-82	0.00-0.00	16/09/2015	17/09/2015	4.15	7.95	32	0.616	17.6	88.7	119	0.501	31.9	<1	23.4	262	3170	58400	55300	110000	23400	<40	268	1980	2110	12300	33600	117000	50900	19000	<40	<40	1320	<40	<12	77	8880	<24	<20
MP70 BF 89	150917-82	0.00-0.00	16/09/2015	17/09/2015	3.84	7.91	23.9	0.797	18.8	79	118	0.372	29.1	<1	23.4	333	3700	22500	19900	35500	10700	49.9	2100	3880	2470	3880	9970	42100	22400	9870	<40	<40	2580	<40	<12	77	14800	<24	<20
MP70 BF 90	150917-82	0.00-0.00	16/09/2015	17/09/2015	2.38	8.27	21.4	0.534	20.9	62.4	89.8	0.516	28.2	<1	24.9	217	<40	5600	21500	75200	18800	<40	<40	<40	<40	2270	10100	66500	32600	12600	<40	<40	<40	<40	<12	85	<176	<24	<20

Monitor Phase 70- South East Margin Backfill

Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	o-Xylene	sum of detected BTEX by GC	sum of detected mpo xylene by GC	Toluene	Total Aliphatics & Aromatics >C5-C44	Total Aliphatics >C12-C44	Total Aromatics >EC12-EC44
					µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				>1m Commerci				389000			
MP70 BF 1	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	359000	118000	240000
MP70 BF 10	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	332000	215000	117000
MP70 BF 11	150917-84	0.00-0.00	16/09/2015	17/09/2015	16.5	16.5	75.9	59.4	666000	445000	218000
MP70 BF 12	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	298000	163000	129000
MP70 BF 13	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	253	253	1530000	1090000	438000
MP70 BF 14	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	463000	266000	191000
MP70 BF 15	150917-84	0.00-0.00	16/09/2015	17/09/2015	<3	<9	<24	<2	321000	193000	127000
MP70 BF 16	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	652000	393000	249000
MP70 BF 17	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	40	40	520000	321000	195000
MP70 BF 18	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	28.9	28.9	336000	199000	131000
MP70 BF 19	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	543000	292000	241000
MP70 BF 2	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	8.64	365000	174000	186000
MP70 BF 20	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	785000	414000	370000
MP70 BF 21	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	166000	95200	69200
MP70 BF 22	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	58.2	<8	47500	18600	4900
MP70 BF 23	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	887000	543000	336000
MP70 BF 24	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	221000	114000	106000
MP70 BF 25	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	95000	42500	49300
MP70 BF 26	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	627000	370000	244000
MP70 BF 27	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	723000	384000	323000
MP70 BF 28	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	663000	353000	270000
MP70 BF 29	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	39100	9080	30100
MP70 BF 3	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	10.8	863000	567000	292000
MP70 BF 30	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	431000	253000	174000
MP70 BF 31	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	893000	521000	371000
MP70 BF 32	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	2290000	1240000	1040000
MP70 BF 33	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	1140000	610000	522000
MP70 BF 34	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	369000	208000	156000
MP70 BF 35	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	9.2	381000	212000	167000
MP70 BF 36	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	39100	11500	27400
MP70 BF 37	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	9.04	341000	172000	166000
MP70 BF 38	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	632000	384000	233000
MP70 BF 4	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	16.2	606000	355000	247000
MP70 BF 40	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	674000	247000	422000
MP70 BF 41	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	420000	168000	241000
MP70 BF 42	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	454000	228000	206000
MP70 BF 43	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	405000	216000	167000
MP70 BF 44	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	24500	2270	22000
MP70 BF 45	150917-84	0.00-0.00	16/09/2015	17/09/2015	48.6	48.6	48.6	<8	276000	155000	118000
MP70 BF 5	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	34.4	34.4	654000	398000	252000
MP70 BF 6	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	142000	70100	67500
MP70 BF 7	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	992	964	2700000	1940000	747000
MP70 BF 8	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	40.3	40.3	274000	163000	110000
MP70 BF 9	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	34.1	34.1	683000	422000	259000
MP70 BF39	150917-84	0.00-0.00	16/09/2015	17/09/2015	<12	<9	<24	<8	557000	307000	243000
MP70 BF 46	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	536000	327000	160000
MP70 BF 47	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	307000	180000	119000
MP70 BF 48	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	1220000	767000	444000
MP70 BF 49	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	110	<9	<8	499000	208000	84700
MP70 BF 50	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	415000	213000	196000
MP70 BF 51	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	137	<9	<8	314000	131000	57200
MP70 BF 52	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	716000	398000	316000
MP70 BF 53	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	214000	96200	59000
MP70 BF 54	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	320000	191000	120000
MP70 BF 55	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	676000	395000	276000
MP70 BF 56	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	342000	218000	119000
MP70 BF 57	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	180000	107000	69600
MP70 BF 58	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	57.2	<9	57.2	528000	288000	218000
MP70 BF 59	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	284000	176000	95500
MP70 BF 60	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	491000	367000	123000
MP70 BF 61	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	358000	229000	127000
MP70 BF 62	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	351000	211000	136000
MP70 BF 63	150917-82	0.00-0.00	16/09/2015	17/09/2015	134	134	134	<8	832000	210000	589000
MP70 BF 64	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	342000	148000	192000
MP70 BF 65	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	146000	79300	63400
MP70 BF 66	150917-82	0.00-0.00	16/09/2015	17/09/2015	29.1	29.1	29.1	<8	621000	389000	222000
MP70 BF 67	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	778000	480000	285000
MP70 BF 68	150917-82	0.00-0.00	16/09/2015	17/09/2015	63.2	114	63.2	<8	329000	166000	155000
MP70 BF 69	150917-82	0.00-0.00	16/09/2015	17/09/2015	124	124	124	<8	784000	428000	344000
MP70 BF 70	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	310000	157000	141000
MP70 BF 71	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	246000	135000	110000
MP70 BF 72	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	388000	179000	207000
MP70 BF 73	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	546000	259000	275000
MP70 BF 74	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	527000	272000	246000
MP70 BF 75	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	248000	112000	136000
MP70 BF 76	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	616000	253000	363000
MP70 BF 77	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	546000	275000	266000
MP70 BF 78	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	317000	202000	106000
MP70 BF 79	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	121	<9	<8	236000	93600	64400
MP70 BF 80	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	263000	127000	136000
MP70 BF 81	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	369000	194000	174000
MP70 BF 82	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	329000	158000	165000
MP70 BF 83	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	415000	186000	217000
MP70 BF 84	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	227000	122000	104000
MP70 BF 85	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	39000	<100	28600
MP70 BF 86	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	422000	214000	198000
MP70 BF 87	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	330000	150000	174000
MP70 BF 88	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	470000	247000	214000
MP70 BF 89	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	182000	88600	78300
MP70 BF 90	150917-82	0.00-0.00	16/09/2015	17/09/2015	<12	<24	<9	<8	233000	121000	112000

Trial Pit	Naphthalene-d8 % recovery**	Acenaphthene-d10 % recovery**	Phenanthrene-d10 % recovery**	Chrysene-d12 % recovery**	Perylene-d12 % recovery**	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene
	%	%	%	%	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
MP70 BF 1	103	105	103	100	108	61.5	18.8	30.1	75.6	442	103	486	449
MP70 BF 10	91.9	91.8	90.7	92.6	98.1	85.2	<12	<8	111	602	614	539	512
MP70 BF 11	97.9	96.9	95.7	90.7	99	69.3	<12	30.1	65.2	387	90.1	387	539
MP70 BF 12	103	105	104	99.9	106	75.7	37.7	148	149	988	229	1280	1040
MP70 BF 13	98.6	98.9	97.9	92.1	101	76.8	21.5	51.2	118	347	112	440	513
MP70 BF 14	95.3	95.5	94	97.8	105	93.2	<12	<8	101	879	899	876	998
MP70 BF 15	94.3	92.3	92.4	86.2	88.3	27.2	<12	16.7	25.9	178	34.5	209	211
MP70 BF 16	86.6	85.4	83.5	89.8	94.4	121	26.2	70.4	92.5	571	133	965	827
MP70 BF 17	91.1	90.6	87.1	90.9	99.7	73.8	<12	26.6	71	268	63.8	318	356
MP70 BF 18	100	99.9	98.6	91.9	98.6	54.6	16.9	154	131	716	132	831	627
MP70 BF 19	90.3	89.3	87	89.8	97.7	51	14.6	25.6	55.8	920	119	510	582
MP70 BF 2	99.1	93.3	90.6	92.5	90.7	113	25.1	243	191	2910	728	4690	4040
MP70 BF 20	93.5	92.7	92.1	88.3	91.5	95	15.4	58.7	208	2020	255	1020	1700
MP70 BF 21	94.7	94.7	93	96.7	104	153	<12	194	170	1340	1380	1880	1470
MP70 BF 22	97	96	95.4	86.8	88.8	25.6	<12	<8	23.3	89.2	<16	27	30.7
MP70 BF 23	92.2	91.7	91.1	88	92.2	109	48.4	93.1	146	867	186	1060	1020
MP70 BF 24	91	90.2	88.8	93.9	98.5	42	17.2	24.6	48.9	437	87	486	486
MP70 BF 25	102	94.5	91	86.5	88.9	<9	<12	<8	<10	82.7	22.2	162	181
MP70 BF 26	91.4	90.5	88	92.3	99.9	397	22.8	220	294	1640	320	1730	1350
MP70 BF 27	92.3	92.3	89.7	93.4	102	61.8	40.7	29.6	62.6	359	107	609	598
MP70 BF 28	94.1	93.5	91.2	98.3	108	108	228	91.7	389	2840	1210	6820	4330
MP70 BF 29	93.1	91.9	88.9	91.8	101	26	33.3	38.2	50.2	412	89.7	576	451
MP70 BF 3	99.5	93.1	89.8	88	87.4	123	20.4	52.1	101	651	120	673	935
MP70 BF 30	104	106	103	102	110	112	18.9	146	289	853	139	382	469
MP70 BF 31	106	107	102	108	110	70.1	55.8	94.3	122	611	171	816	857
MP70 BF 32	93.7	94.1	92.1	97.7	109	98.3	41.2	45.4	104	602	230	943	1110
MP70 BF 33	106	107	102	107	108	91.4	47.3	72.5	143	1230	245	1140	1700
MP70 BF 34	90.7	89.3	89.4	85.6	88.1	63.3	26.4	83.6	114	1280	344	3000	2490
MP70 BF 35	102	102	97.8	97.9	98.3	76.3	18	27	43.5	413	65.8	371	399
MP70 BF 36	106	106	101	101	102	16.5	17.2	<8	<10	124	34.4	243	188
MP70 BF 37	106	108	103	106	106	68.4	31.2	51.4	65	512	123	755	831
MP70 BF 38	101	101	96.9	98.5	99.1	127	29.3	143	157	834	202	1050	895
MP70 BF 4	103	99.5	97.8	100	97.5	259	59.8	613	544	2930	678	4070	3330
MP70 BF 40	107	108	104	107	109	3930	41.3	2230	2700	14300	3030	13700	11100
MP70 BF 41	105	106	102	106	109	85.8	70.2	189	422	2960	902	4540	3790
MP70 BF 42	87.8	86.8	84.8	91.6	97.2	61.2	27.6	21.5	45.5	373	83.8	508	516
MP70 BF 43	96.4	96	94.5	97.1	103	75	<12	<8	93	478	487	522	531
MP70 BF 44	102	103	99.3	100	102	<9	<12	<8	<10	84.1	22.9	156	126
MP70 BF 45	92.6	91.5	90.2	95.8	101	26.2	<12	10.1	23	156	37.9	231	259
MP70 BF 5	103	99.4	97.7	99.6	95.7	108	<12	93	124	719	730	899	940
MP70 BF 6	104	106	103	99.7	109	15.2	<12	<8	<10	87.4	23.9	155	133
MP70 BF 7	99.1	99.6	99.3	92.9	98.1	135	28.8	129	288	842	196	626	658
MP70 BF 8	99.9	99.6	98.9	92.9	98.8	51.2	<12	23.7	50.2	282	55.4	300	334
MP70 BF 9	100	99.2	98.3	92.5	99.7	68.6	26.6	32.1	88.3	605	156	813	777
MP70 BF39	114	115	110	112	113	139	38.1	90.6	219	1240	287	1420	1500
MP70 BF 46	92.6	92.5	91.5	94.8	102	99.2	<12	123	168	775	794	974	874
MP70 BF 47	93.8	93.7	92.8	95.6	101	80.5	<12	<8	80.8	574	589	603	586
MP70 BF 48	108	104	101	106	103	72.7	23.3	77.8	93.6	488	172	1000	932
MP70 BF 49	99.2	98.8	97.9	99.4	106	<9	<12	<8	65.7	157	157	131	149
MP70 BF 50	102	97.7	95.2	94.9	95.8	91.7	<12	79.4	100	502	508	699	660
MP70 BF 51	93.5	92	91.7	85.4	86	43.9	<12	41.2	53.7	296	52.3	344	296
MP70 BF 52	109	106	103	110	107	83.8	34.1	49.8	75.3	397	128	543	506
MP70 BF 53	95.9	96.3	94.2	97	104	87.6	<12	<8	71.5	400	410	365	371
MP70 BF 54	104	99.9	97.4	97	99.2	170	20.5	82.1	118	708	158	809	665
MP70 BF 55	99.2	92.1	88.6	86.4	88	58.4	14.8	<8	48.5	267	69.7	345	327
MP70 BF 56	108	104	102	103	105	88.2	17.3	62.5	71.6	428	114	715	613
MP70 BF 57	95.5	96.3	94.9	91.2	93.3	23	<12	14.9	27.2	128	84.6	149	161
MP70 BF 58	100	92.7	89.1	87.1	89	91.1	29.2	96.7	133	919	276	1610	1210
MP70 BF 59	103	95.3	91.3	89.2	89.8	38.2	<12	32.1	58.9	497	84.3	517	748
MP70 BF 60	103	106	104	101	108	28.2	<12	19.3	32.5	192	67.5	371	345
MP70 BF 61	94.1	93.2	92.8	87.6	91	18.2	<12	18.7	42	143	53.7	129	107
MP70 BF 62	97.8	90.7	87.4	85	86.3	52	18	73	83.2	565	124	622	633
MP70 BF 63	106	102	99.8	100	102	120	23.7	104	115	711	169	944	788
MP70 BF 64	104	99.5	97.2	95.4	96.7	<9	<12	<8	<10	487	495	774	622
MP70 BF 65	96.6	97.7	96.1	90.7	93	30.8	<12	25.2	28.2	141	25.9	212	184
MP70 BF 66	95	95.3	94	92.1	93.2	63.7	27.8	53.8	90.4	545	127	790	708
MP70 BF 67	110	106	103	106	105	98.9	17.7	87.6	123	846	193	886	1030
MP70 BF 68	108	103	100	99.2	99.7	170	<12	86.5	128	810	823	1020	923
MP70 BF 69	113	109	107	114	113	198	54.9	134	203	1510	283	1260	1660
MP70 BF 70	91.4	90.7	89.1	91.8	101	75.3	14.9	36.7	69	475	93.5	522	573
MP70 BF 71	90.1	88.3	86.2	86.2	94	22.2	<12	12.4	17.2	122	26.7	193	185
MP70 BF 72	104	103	99.4	103	111	69.3	15.8	21.5	42.2	391	75.7	449	526
MP70 BF 73	95.1	95.3	91.9	97.4	108	141	95.6	62.4	156	869	206	705	950
MP70 BF 74	91.4	90.8	87.5	91.1	101	56.1	<12	22.5	70.4	436	125	468	682
MP70 BF 75	90.9	89.6	87	90.4	99.1	59.5	46	36.9	47.9	433	135	990	815
MP70 BF 76	96.8	90.9	88.2	87	88.5	28.4	<12	11.5	18.4	188	31.4	213	192
MP70 BF 77	101	97.6	95.7	96.1	96.1	131	19	46.4	92	485	97.9	435	479
MP70 BF 78	108	102	98.3	98.7	100	93.4	<12	59.8	90.6	290	65.3	121	189
MP70 BF 79	109	103	99.1	98.1	99.5	161	<12	<8	146	322	72.9	99.7	138
MP70 BF 80	102	98.6	99.9	96.7	98.5	92.9	34.8	31.9	56.8	537	115	698	592
MP70 BF 81	99.8	92.7	89.3	87.3	89.1	65.1	16.4	66	96.9	612	174	1100	897
MP70 BF 82	100	100	96.4	100	110	65.8	18.9	45.2	58	406	85.7	534	478
MP70 BF 83	101	99.9	97.5	121	111	92	27.3	38.3	90.4	911	188	711	862
MP70 BF 84	99.1	91.5	90.5	85.3	86.8	83.5	<12	<8	60	401	407	744	614
MP70 BF 85	87.2	84	80	79.3	85.3	24.6	<12	<8	<10	60.6	<16	21.1	20.2
MP70 BF 86	99.6	91.8	87.8	85.1	87.5	54.8	15.4	31.2	47.6	353	90.6	561	522
MP70 BF 87	102	93.2	88.7	85.1	86.1	<9	<12	<8	<10	203	207	294	299
MP70 BF 88	89.8	89.3	86.5	89.9	99.1	85.2	22.4	49.5	133	1090	211	886	950
MP70 BF 89	95.8	95.8	94.5	97.2	104	86.2	<12	84.8	117	662	680	876	772
MP70 BF 90	91	90.1	87.7	90.9	99.5	60.8	17.2	27	46.2	384	84.9	526	484

Trial Pit	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	PAH, Total Detected USEPA 16	Toluene-d8**	Methyl Tertiary Butyl Ether	Benzene
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg
												5000
MP70 BF 1	313	335	574	165	345	189	95.8	237	3920	79.4	<10	<9
MP70 BF 10	391	508	336	306	367	227	<23	268	4870	81.2	<100	<90
MP70 BF 11	314	446	425	139	302	179	93.1	227	3690	72.4	<10	<9
MP70 BF 12	916	1060	1420	419	852	489	231	546	9880	78.1	<10	<9
MP70 BF 13	306	339	520	205	388	226	97.9	277	4040	75	<10	12.4
MP70 BF 14	1190	1740	1540	347	1010	529	306	668	11200	75.8	<10	<9
MP70 BF 15	149	197	271	67.6	147	96.2	43.6	140	1810	82	<10	<9
MP70 BF 16	743	752	1340	344	786	420	167	511	7870	78.1	<10	12
MP70 BF 17	260	351	424	125	272	151	62.7	191	3010	84	<10	<9
MP70 BF 18	522	608	670	217	419	242	112	273	5730	79.5	<10	12
MP70 BF 19	463	813	623	203	416	247	128	295	5470	79.7	<10	<9
MP70 BF 2	3050	2620	3100	1110	2360	1110	467	1170	27900	74.8	<10	<9
MP70 BF 20	991	2000	1250	303	708	413	254	548	11800	79.8	<10	<9
MP70 BF 21	1330	1480	1620	523	1120	668	274	842	14500	79.7	<10	<9
MP70 BF 22	<14	54.3	58.5	<14	<15	<18	<23	<24	308	85.1	<10	<9
MP70 BF 23	848	1070	1180	397	698	402	190	530	8840	81.2	<10	<9
MP70 BF 24	370	400	540	155	330	172	76.3	209	3880	91.1	<10	<9
MP70 BF 25	129	153	133	49.7	96.7	51.4	<23	58.7	1120	85.2	<10	<9
MP70 BF 26	1160	954	1470	463	1000	476	207	525	12200	91.2	<10	<9
MP70 BF 27	524	562	802	271	547	310	129	375	5390	79.8	<10	10.2
MP70 BF 28	6930	8290	9520	2950	5000	2540	1460	2330	55000	83.7	<10	20.9
MP70 BF 29	364	413	520	184	365	186	93.2	230	4030	92.1	<10	<9
MP70 BF 3	699	959	931	258	586	314	200	397	7020	73.3	<10	<9
MP70 BF 30	288	343	396	103	264	143	63.8	170	4180	90	<10	<9
MP70 BF 31	662	978	939	317	603	430	196	544	7470	76.7	<100	<90
MP70 BF 32	906	1250	1880	549	1270	751	331	894	11000	81.3	<10	<9
MP70 BF 33	1280	2490	1400	395	899	532	358	705	12700	77.2	<10	<9
MP70 BF 34	1960	1810	2500	812	1710	858	315	960	18300	79.8	<10	<9
MP70 BF 35	283	554	398	123	224	149	85.1	196	3430	83.6	<10	<9
MP70 BF 36	151	122	165	63.5	113	57.3	<23	66.9	1360	92.7	<10	<9
MP70 BF 37	630	1070	768	274	510	296	145	365	6500	83	<10	<9
MP70 BF 38	673	772	965	368	654	389	163	476	7900	80.4	<10	<9
MP70 BF 4	2810	2770	4150	1530	2970	1650	649	1870	30900	75.9	<10	<9
MP70 BF 40	8210	8550	7760	2450	4920	2350	1290	2540	89100	82.9	<10	<9
MP70 BF 41	2340	2590	2260	1010	1720	972	409	1100	25400	80	<10	<9
MP70 BF 42	488	666	756	211	460	250	134	314	4910	75.2	<10	<9
MP70 BF 43	528	1260	443	887	486	283	<23	361	6440	88.7	<10	<9
MP70 BF 44	118	97.7	139	45.9	94.4	52.4	<23	63.3	999	89.7	<10	<9
MP70 BF 45	200	277	407	113	246	133	68.3	174	2360	77	<10	<9
MP70 BF 5	733	1100	1440	1420	721	421	191	527	10200	73.8	<10	<9
MP70 BF 6	117	104	146	54	104	55.5	<23	62.1	1060	83	<10	<9
MP70 BF 7	397	501	502	194	412	220	97.3	271	5500	73.4	<10	10.3
MP70 BF 8	242	310	463	136	322	197	87.5	247	3100	75.8	<10	<9
MP70 BF 9	714	1670	844	281	649	372	194	449	7740	74.6	<10	<9
MP70 BF39	987	1440	1150	411	757	450	232	564	10900	79.5	<10	<9
MP70 BF 46	752	970	606	575	721	428	<23	496	8360	82.5	<10	19.4
MP70 BF 47	608	1300	430	404	490	294	<23	363	6400	85.5	<10	<9
MP70 BF 48	618	620	844	333	580	338	144	414	6750	81	<10	<9
MP70 BF 49	<14	117	165	156	<15	<18	<23	<24	1100	85.1	<10	<9
MP70 BF 50	481	627	966	950	479	283	<23	340	6770	82.3	<10	<9
MP70 BF 51	227	334	325	121	196	113	53.6	159	2660	84.3	<10	<9
MP70 BF 52	375	412	559	148	356	225	101	269	4260	78.4	<10	<9
MP70 BF 53	327	550	281	264	286	178	<23	212	3800	86.8	<10	<9
MP70 BF 54	516	521	712	267	451	256	127	295	5880	82.2	<10	<9
MP70 BF 55	237	304	351	108	209	129	60	155	2680	81.1	<10	<9
MP70 BF 56	490	494	678	235	441	256	112	299	5110	82.6	<10	<9
MP70 BF 57	115	123	163	51.3	113	69.1	32.2	95.8	1350	86.2	<10	<9
MP70 BF 58	1180	1260	1640	632	1020	581	268	619	11600	81.5	<10	<9
MP70 BF 59	748	1450	799	202	575	292	229	369	6640	87	<10	<9
MP70 BF 60	206	218	292	97.3	199	106	39	132	2340	83.5	<10	<9
MP70 BF 61	50.9	72.2	93.8	24.9	47.3	29.4	<23	40.4	870	83	<10	<9
MP70 BF 62	543	1080	670	226	442	257	132	294	5820	76.6	<10	<9
MP70 BF 63	613	624	820	316	560	328	143	385	6760	77.9	<10	<9
MP70 BF 64	398	461	653	643	361	197	<23	239	5330	85.6	<10	<9
MP70 BF 65	142	131	168	48.6	99.2	51.3	<23	60.4	1350	88	<10	12.2
MP70 BF 66	613	851	845	246	545	300	158	356	6320	74.8	<10	<9
MP70 BF 67	978	1750	972	303	653	338	221	389	8880	83.4	<10	<9
MP70 BF 68	692	1070	1200	1180	577	332	141	381	9540	81.8	<10	<9
MP70 BF 69	1140	1790	1290	380	883	511	293	618	12200	79.4	<10	<9
MP70 BF 70	422	641	709	240	476	255	122	319	5040	78	<10	<9
MP70 BF 71	162	192	294	98.1	203	123	48.2	161	1860	86.7	<10	<9
MP70 BF 72	481	988	703	220	471	269	143	349	5210	83.4	<10	<9
MP70 BF 73	665	1200	920	267	690	381	204	496	8010	81.8	<10	<9
MP70 BF 74	455	858	622	157	378	222	130	310	4990	83.1	<10	<9
MP70 BF 75	1020	984	1850	649	1220	760	328	843	10200	85.9	<10	<9
MP70 BF 76	160	203	286	101	180	125	54.3	211	2000	75	<10	<9
MP70 BF 77	330	440	539	161	341	222	110	273	4200	83.3	<10	<9
MP70 BF 78	126	206	119	32.4	81.5	42.1	30.8	54	1600	78.1	<10	12.1
MP70 BF 79	67.7	88.1	96.1	33.2	61.4	38	<23	49.5	1370	83.4	<10	26
MP70 BF 80	507	498	759	255	512	325	146	410	5570	84.8	<10	<9
MP70 BF 81	758	690	992	312	664	370	165	423	7400	81.4	<10	<9
MP70 BF 82	407	408	709	233	483	287	107	372	4700	81	<10	<9
MP70 BF 83	883	2380	996	286	589	327	212	393	8990	81	<10	<9
MP70 BF 84	574	715	511	500	588	363	146	421	6130	82.1	<10	<9
MP70 BF 85	30.7	24.2	26	<14	<15	<18	<23	<24	207	82.7	<10	18.8
MP70 BF 86	427	563	597	198	395	241	110	287	4490	82.1	<10	<9
MP70 BF 87	199	284	452	446	222	142	<23	182	2930	79.2	<10	<9
MP70 BF 88	709	1070	878	240	509	275	154	348	7610	82.7	<10	<9
MP70 BF 89	681	949	1260	1180	574	349	<23	405	8680	83.1	<10	12.2
MP70 BF 90	482	697	735	256	504	363	161	342	5170	79.2	<10	<9

Monitor Phase 70- South East Margin Backfill

Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	Toluene µg/kg	Ethylbenzene µg/kg	p/m-Xylene µg/kg	o-Xylene µg/kg	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - Gravimetric - %	Date of Analysis	Analysed By	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Additional Asbestos Components (Using TM048)	Additional Asbestos Components (Using TM048)	Comments	Analysts Comments	Analysts Comments	Chrysotile (White) Asbestos	Amosite (Brown) Asbestos	Asbestos Quantification - Total - %	Asbestos Quantification - Total - %	Crocidolite (Blue) Asbestos	Fibrous Anthophyllite	Fibrous Tremolite	Fibrous Actinolite	Non-Asbestos Fibre
				>1m Commerci	389000																							
MP70 BF 1	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	23/9/15	imon Postlewhite	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 10	150917-84	0.00-0.00	16/09/2015	17/09/2015	<70	<40	<100	<100	-	-	23/9/15	imon Postlewhite	-	-	-	-	0	-	-	Not Detected	Not Detected	Not Detected	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 11	150917-84	0.00-0.00	16/09/2015	17/09/2015	30.5	<4	<10	<10	<0.001	-	23/09/2015	ebecca Rawlings	0.003	-	None	-	e fibres in soil	N/C	-	Detected	Detected	0.003	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 12	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	22/09/2015	Kevin Bowron	-	<0.001	-	fibres in soil).	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 13	150917-84	0.00-0.00	16/09/2015	17/09/2015	120	<4	<10	<10	-	-	23/09/2015	ebecca Rawlings	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 14	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Gill	0.0016	-	bundles in soil)	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0016	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 15	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	23/9/15	Chris Swindells	-	<0.001	-	None	0	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 16	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Bowron	0.0101	-	None	-	bundles in soil	N/C	-	Detected	Not Detected	0.0101	-	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 17	150917-84	0.00-0.00	16/09/2015	17/09/2015	17.1	<4	<10	<10	<0.001	-	22/09/2015	imon Postlewhite	0.0013	-	bundles in soil)	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0013	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 18	150917-84	0.00-0.00	16/09/2015	17/09/2015	39.3	<4	<10	<10	-	-	22/09/2015	Kevin Bowron	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 19	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Bowron	0.0011	-	bundles in soil).	-	bundles in soil	N/C	-	Not Detected	Not Detected	0.0011	-	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 2	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	imon Postlewhite	0.0067	-	bundles in soil)	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0067	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 20	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	23/9/15	imon Postlewhite	0.0013	-	None	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0013	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 21	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Bowron	0.0121	-	bundles in soil).	-	bundles in soil	N/C	-	Detected	Not Detected	0.0121	-	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 22	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Gill	<0.001	-	None	-	bundles in soil	N/C	-	Detected	Not Detected	<0.001	-	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 23	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	22/09/2015	Kevin Bowron	-	<0.001	-	None	bundles in soil	-	N/C	Trace	Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 24	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	22/09/2015	imon Postlewhite	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 25	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/09/15	Chris Swindells	-	<0.001	-	None	estos bitumen	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 26	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	22/09/2015	imon Postlewhite	-	-	-	-	e fibres in soil	-	-	Trace	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 27	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	22/09/2015	imon Postlewhite	-	-	-	-	e fibres in soil	-	-	Trace	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 28	150917-84	0.00-0.00	16/09/2015	17/09/2015	29.8	<4	20.3	<10	<0.001	-	22/09/2015	Kevin Bowron	<0.001	-	None	-	bundles in soil	N/C	-	Detected	Not Detected	<0.001	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 29	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	22/09/2015	Kevin Gill	-	<0.001	-	None	e fibres in soil	-	N/C	Not Detected	Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 3	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Bowron	0.0021	-	None	-	bundles in soil	N/C	-	Detected	Detected	0.0021	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 30	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	23/9/15	imon Postlewhite	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 31	150917-84	0.00-0.00	16/09/2015	17/09/2015	<70	<40	<100	<100	<0.001	-	22/09/2015	Kevin Bowron	<0.001	-	None	-	bundles in soil	N/C	-	Detected	Not Detected	<0.001	-	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 32	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	22/09/2015	Kevin Gill	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 33	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Bowron	0.0028	-	None	-	bundles in soil	N/C	-	Not Detected	Detected	0.0028	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 34	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	23/9/15	imon Postlewhite	-	<0.001	-	None	e fibres in soil	-	-	PCM analysis.	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 35	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Gill	0.0223	-	None	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0223	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 36	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	23/09/2015	ebecca Rawlings	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 37	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	22/09/2015	imon Postlewhite	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 38	150917-84	0.00-0.00	16/09/2015	17/09/2015	10.9	<4	<10	<10	<0.001	-	23/9/15	imon Postlewhite	0.0317	-	None	-	Fibre bundles	N/C	-	Detected	Not Detected	0.0317	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 4	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Bowron	0.0041	-	None	-	bundles in soil	N/C	-	Detected	Detected	0.0041	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 40	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	0.0021	22/09/2015	imon Postlewhite	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	0.0021	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 41	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Gill	0.0025	-	bundles in soil).	-	g ACM debris	N/C	-	Detected	Not Detected	0.0025	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 42	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	23/9/15	imon Postlewhite	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 43	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Bowron	<0.001	-	None	-	bundles in soil	N/C	-	Detected	Not Detected	<0.001	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 44	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	22/09/2015	imon Postlewhite	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 45	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	0.0014	23/09/2015	ebecca Rawlings	-	<0.001	-	Chrysotile	e fibres in soil	-	se fibres in soil	Not Detected	Detected	-	0.0014	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 5	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	Kevin Bowron	0.0014	-	None	-	bundles in soil	N/C	-	Detected	Not Detected	0.0014	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 6	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	23/9/15	imon Postlewhite	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 7	150917-84	0.00-0.00	16/09/2015	17/09/2015	337	9.1	<10	<10	-	<0.001	22/09/2015	Kevin Gill	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 8	150917-84	0.00-0.00	16/09/2015	17/09/2015	17.6	<4	<10	<10	-	-	22/09/2015	imon Postlewhite	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 9	150917-84	0.00-0.00	16/09/2015	17/09/2015	12.6	<4	<10	<10	-	0.0011	23/09/2015	ebecca Rawlings	-	<0.001	-	Chrysotile	e fibres in soil	-	bundles in soil	Not Detected	Not Detected	-	0.0012	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF39	150917-84	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	22/09/2015	imon Postlewhite	0.0029	-	None	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0029	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 46	150917-82	0.00-0.00	16/09/2015	17/09/2015	57.8	<4	<10	<10	<0.001	-	24/09/2015	imon Postlewhite	0.0012	-	bundles in soil)	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0012	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 47	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/9/15	imon Postlewhite	0.0014	-	None	-	e fibres in soil	N/C	-	Not Detected	Detected	0.0014	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 48	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/9/15	ebecca Rawlings	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 49	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/09/2015	Kevin Gill	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 50	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	25/09/2015	ebecca Rawlings	<0.001	-	Amosite	-	d ACM debris	e fibres in soil	-	Detected	Not Detected	<0.001	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 51	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	25/09/2015	Lauren Sargeant	0.004	-	None	-	e fibres in soil	N/C	-	Detected	Not Detected	0.004	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 52	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	24/09/2015	Kevin Gill	-	-	-	-	e fibres in soil	-	-	Trace	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 53	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	24/09/2015	Kevin Gill	-	-	-	-	e fibres in soil	-	-	Trace	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 54	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/09/2015	Kevin Gill	-	<0.001	-	Amosite	e fibres in soil	-	se fibres in soil	Not Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 55	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	25/09/2015	ebecca Rawlings	0.0032	-	bundles in soil)	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0032	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 56	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/09/2015	imon Postlewhite	0.0033	-	None	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0033	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 57	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/09/2015	imon Postlewhite	0.003	-	None	-	e fibres in soil	N/C	-	Detected	Detected	0.003	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 58	150917-82	0.00-0.00	16/09/2015	17/09/2015	19.2	<4	<10	<10	<0.001	-	24/09/2015	imon Postlewhite	0.0014	-	None	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0014	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 59	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/09/2015	Kevin Gill	0.0017	-	None	-	bundles in soil	N/C	-	Detected	Not Detected	0.0017	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 60	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	24/09/2015	Kevin Gill	-	-	-	-	e fibres in soil	-	-	Trace	Trace	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 61	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	25/09/2015	ebecca Rawlings	0.0584	-	None	-	bundles in soil	N/C	-	Detected	Detected	0.0584	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 62	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	25/09/2015	Lauren Sargeant	0.0072	-	None	-	e fibres in soil	N/C	-	Detected	Detected	0.0072	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 63	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	25/09/2015	ebecca Rawlings	0.0034	-	None	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0034	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 64	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/09/2015	Kevin Gill	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 65	150917-82	0.00-0.00	16/09/2015	17/09/2015	8.61	<4	<10	<10	-	<0.001	25/09/2015	ebecca Rawlings	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	0.0012	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 66	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/09/2015	imon Postlewhite	0.0013	-	Amosite	-	e fibres in soil	e fibres in soil	-	Detected	Not Detected	0.0013	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 67	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	25/09/2015	Lauren Sargeant	-	<0.001	-	fibres in soil.)	e fibres in soil	-	N/C	Not Detected	Detected	-	0.0011	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 68	150917-82	0.00-0.00	16/09/2015	17/09/2015	14.5	<4	<10	<10	<0.001	-	25/09/2015	ebecca Rawlings	0.0095	-	bundles in soil)	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0095	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 69	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/09/2015	imon Postlewhite	-	<0.001	-	Amosite	e fibres in soil	-	se fibres in soil	Not Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 70	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	25/09/2015	ebecca Rawlings	0.0101	-	None	-	bundles in soil	N/C	-	Detected	Not Detected	0.0101	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 71	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	25/09/2015	ebecca Rawlings	<0.001	-	None	-	bundles in soil	N/C	-	Detected	Detected	<0.001	-	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 72	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/09/2015	Kevin Gill	0.0169	-	None	-	e fibres in soil	N/C	-	Trace	Not Detected	0.0169	-	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 73	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/09/2015	imon Postlewhite	0.0017	-	bundles in soil)	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0017	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 74	150917-82	0.00-0.00	16/09/2015	17/09/2015	12.2	<4	<10	<10	-	-	24/09/2015	Kevin Gill	-	-	-	-	e fibres in soil	-	-	Trace	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 75	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/09/2015	Kevin Gill	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 76	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/09/2015	imon Postlewhite	0.0013	-	Amosite	-	e fibres in soil	e fibres in soil	-	Detected	Not Detected	0.0013	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 77	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/09/2015	imon Postlewhite	0.0011	-	Amosite	-	e fibres in soil	e fibres in soil	-	Detected	Not Detected	0.0011	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 78	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	24/09/2015	Kevin Gill	-	-	-	-	e fibres in soil	-	-	Trace	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 79	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	14.1	<10	-	<0.001	25/09/2015	Lauren Sargeant	-	<0.001	-	None	e fibres in soil	-	N/C	Not Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Detected	Not Detected
MP70 BF 80	150917-82	0.00-0.00	16/09/2015	17/09/2015	18.9	<4	<10	<10	<0.001	-	24/09/2015	Kevin Gill	0.0052	-	None	-	bundles in soil	N/C	-	Detected	Not Detected	0.0052	-	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 81	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	25/09/2015	ebecca Rawlings	0.0047	-	ite & Crocidolite	-	bundles in soil	bundles in soil	-	Detected	Not Detected	0.0047	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 82	150917-82	0.00-0.00	16/09/2015	17/09/2015	17.9	<4	<10	<10	-	<0.001	24/09/2015	imon Postlewhite	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	0.0012	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 83	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/09/2015	Kevin Gill	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 84	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/09/2015	imon Postlewhite	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 85	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	18.3	<10	-	-	24/9/15	ebecca Rawlings	-	-	-	-	0	-	-	Not Detected	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 86	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/9/15	ebecca Rawlings	-	<0.001	-	None	e fibres in soil	-	N/C	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 87	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	<0.001	-	24/9/15	ebecca Rawlings	<0.001	-	None	-	bundles in soil	N/C	-	Detected	Detected	<0.001	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 88	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	-	24/9/15	imon Postlewhite	-	-	-	-	e fibres in soil	-	-	Trace	Not Detected	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 89	150917-82	0.00-0.00	16/09/2015	17/09/2015	12.7	<4	<10	<10	<0.001	-	24/9/15	imon Postlewhite	0.0012	-	bundles in soil)	-	e fibres in soil	N/C	-	Detected	Not Detected	0.0012	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
MP70 BF 90	150917-82	0.00-0.00	16/09/2015	17/09/2015	<7	<4	<10	<10	-	<0.001	24/9/15	imon Postlewhite	-	<0.001	-	Crocidolite	e fibres in soil	-	se fibres in soil	Detected	Not Detected	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

ALcontrol Laboratories

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Attention: Barney Irlam

CERTIFICATE OF ANALYSIS

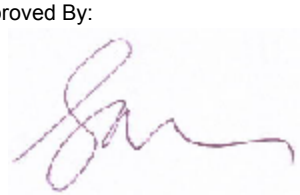
Date:	12 October 2015
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	150917-84
Your Reference:	Phase 70 Trial Pits
Location:	Coed Darcy
Report No:	333075

We received 45 samples on Thursday September 17, 2015 and 45 of these samples were scheduled for analysis which was completed on Friday October 09, 2015. 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

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
12080662	MP70 BF 1		0.00 - 0.00	16/09/2015
12080714	MP70 BF 2		0.00 - 0.00	16/09/2015
12080760	MP70 BF 3		0.00 - 0.00	16/09/2015
12080812	MP70 BF 4		0.00 - 0.00	16/09/2015
12080840	MP70 BF 5		0.00 - 0.00	16/09/2015
12080844	MP70 BF 6		0.00 - 0.00	16/09/2015
12080848	MP70 BF 7		0.00 - 0.00	16/09/2015
12080852	MP70 BF 8		0.00 - 0.00	16/09/2015
12080856	MP70 BF 9		0.00 - 0.00	16/09/2015
12080670	MP70 BF 10		0.00 - 0.00	16/09/2015
12080677	MP70 BF 11		0.00 - 0.00	16/09/2015
12080682	MP70 BF 12		0.00 - 0.00	16/09/2015
12080686	MP70 BF 13		0.00 - 0.00	16/09/2015
12080690	MP70 BF 14		0.00 - 0.00	16/09/2015
12080694	MP70 BF 15		0.00 - 0.00	16/09/2015
12080698	MP70 BF 16		0.00 - 0.00	16/09/2015
12080702	MP70 BF 17		0.00 - 0.00	16/09/2015
12080706	MP70 BF 18		0.00 - 0.00	16/09/2015
12080710	MP70 BF 19		0.00 - 0.00	16/09/2015
12080718	MP70 BF 20		0.00 - 0.00	16/09/2015
12080722	MP70 BF 21		0.00 - 0.00	16/09/2015
12080726	MP70 BF 22		0.00 - 0.00	16/09/2015
12080730	MP70 BF 23		0.00 - 0.00	16/09/2015
12080734	MP70 BF 24		0.00 - 0.00	16/09/2015
12080738	MP70 BF 25		0.00 - 0.00	16/09/2015
12080742	MP70 BF 26		0.00 - 0.00	16/09/2015
12080745	MP70 BF 27		0.00 - 0.00	16/09/2015
12080749	MP70 BF 28		0.00 - 0.00	16/09/2015
12080754	MP70 BF 29		0.00 - 0.00	16/09/2015
12080769	MP70 BF 30		0.00 - 0.00	16/09/2015
12080773	MP70 BF 31		0.00 - 0.00	16/09/2015
12080777	MP70 BF 32		0.00 - 0.00	16/09/2015
12080781	MP70 BF 33		0.00 - 0.00	16/09/2015
12080785	MP70 BF 34		0.00 - 0.00	16/09/2015
12080789	MP70 BF 35		0.00 - 0.00	16/09/2015
12080794	MP70 BF 36		0.00 - 0.00	16/09/2015
12080799	MP70 BF 37		0.00 - 0.00	16/09/2015
12080804	MP70 BF 38		0.00 - 0.00	16/09/2015
12080808	MP70 BF39		0.00 - 0.00	16/09/2015
12080816	MP70 BF 40		0.00 - 0.00	16/09/2015
12080820	MP70 BF 41		0.00 - 0.00	16/09/2015
12080824	MP70 BF 42		0.00 - 0.00	16/09/2015
12080828	MP70 BF 43		0.00 - 0.00	16/09/2015
12080832	MP70 BF 44		0.00 - 0.00	16/09/2015
12080836	MP70 BF 45		0.00 - 0.00	16/09/2015

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

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			12080662			12080714			12080760			12080812			12080840			12080844			12080848			12080852			12080856			12080670			12080677			12080682			12080686			12080690
Customer Sample Reference			MP70 BF 1			MP70 BF 2			MP70 BF 3			MP70 BF 4			MP70 BF 5			MP70 BF 6			MP70 BF 7			MP70 BF 8			MP70 BF 9			MP70 BF 10			MP70 BF 11			MP70 BF 12			MP70 BF 13			MP70 BF 14
AGS Reference																																										
Depth (m)			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00
Container			250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X			X		X
Asbestos Quant. Detail Gravimetric	All	NDPs: 0 Tests: 20					X			X			X			X																		X								X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 12																				X						X									X					
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X			X		X
Sample description	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X			X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X			X			X
VOC MS (S)	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X			X	

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CERTIFICATE OF ANALYSIS

Validated

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			12080690			12080694			12080698			12080702			12080706			12080710			12080718			12080722			12080726			12080730			12080734			12080738		12080742			12080745	12080749
Customer Sample Reference			MP70 BF 14			MP70 BF 15			MP70 BF 16			MP70 BF 17			MP70 BF 18			MP70 BF 19			MP70 BF 20			MP70 BF 21			MP70 BF 22			MP70 BF 23			MP70 BF 24			MP70 BF 25		MP70 BF 26			MP70 BF 27	MP70 BF 28
AGS Reference																																										
Depth (m)			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00		0.00 - 0.00			0.00 - 0.00	0.00 - 0.00
Container			60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X		X		
Asbestos Quant. Detail Gravimetric	All	NDPs: 0 Tests: 20						X			X						X			X			X			X															
Asbestos Quantification - Full	All	NDPs: 0 Tests: 12			X																								X						X							
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X		X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X		X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X	X				X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X		X			X
PAH by GCMS	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X		X			X
pH	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X		X		
Sample description	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X		X			X
Total Organic Carbon	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X		X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X		X			X
VOC MS (S)	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X	X				X	

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

SOLID

Results Legend

- X — Test
- N — No Determination Possible

Lab Sample No(s)			12080749		12080754			12080769			12080773			12080777			12080781			12080785			12080789			12080794			12080799			12080804			12080808			12080816			12080820	
Customer Sample Reference			MP70 BF 28		MP70 BF 29			MP70 BF 30			MP70 BF 31			MP70 BF 32			MP70 BF 33			MP70 BF 34			MP70 BF 35			MP70 BF 36			MP70 BF 37			MP70 BF 38			MP70 BF39			MP70 BF 40			MP70 BF 41	
AGS Reference																																											
Depth (m)			0.00 - 0.00		0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00	
Container			400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (ALE21	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Asbestos Quant. Detail Gravimetric	All	NDPs: 0 Tests: 20	X									X						X						X									X			X						X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 12				X									X						X									X									X			
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X			X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 45	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Sample description	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 45			X			X			X			X			X			X			X			X			X			X			X			X			X	
VOC MS (S)	All	NDPs: 0 Tests: 45		X			X			X			X			X			X			X			X			X			X			X			X			X		

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			12080820	MP70 BF 41		0.00 - 0.00	60g VOC (ALE215)
			12080824	MP70 BF 42		0.00 - 0.00	250g Amber Jar (ALE21 400g Tub (ALE214) 60g VOC (ALE215)
			12080828	MP70 BF 43		0.00 - 0.00	250g Amber Jar (ALE21 400g Tub (ALE214) 60g VOC (ALE215)
			12080832	MP70 BF 44		0.00 - 0.00	250g Amber Jar (ALE21 400g Tub (ALE214) 60g VOC (ALE215)
			12080836	MP70 BF 45		0.00 - 0.00	250g Amber Jar (ALE21 400g Tub (ALE214) 60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 45					
Asbestos Quant. Detail Gravimetric	All	NDPs: 0 Tests: 20					
Asbestos Quantification - Full	All	NDPs: 0 Tests: 12					
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 45					
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 45					
GRO by GC-FID (S)	All	NDPs: 0 Tests: 45					
Metals in solid samples by OES	All	NDPs: 0 Tests: 45					
PAH by GCMS	All	NDPs: 0 Tests: 45					
pH	All	NDPs: 0 Tests: 45					
Sample description	All	NDPs: 0 Tests: 45					
Total Organic Carbon	All	NDPs: 0 Tests: 45					
TPH CWG GC (S)	All	NDPs: 0 Tests: 45					
VOC MS (S)	All	NDPs: 0 Tests: 45					

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**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
12080808	MP70 BF39	0.00 - 0.00	Green	Sandy Clay Loam	0.1 - 2 mm	Brick	Stones
12080662	MP70 BF 1	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Brick
12080714	MP70 BF 2	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Brick
12080760	MP70 BF 3	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Crushed Brick
12080812	MP70 BF 4	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Crushed Brick	Stones
12080840	MP70 BF 5	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Crushed Brick
12080844	MP70 BF 6	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
12080848	MP70 BF 7	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
12080852	MP70 BF 8	0.00 - 0.00	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
12080856	MP70 BF 9	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
12080670	MP70 BF 10	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Tile/Insulation Board	Stones
12080677	MP70 BF 11	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
12080682	MP70 BF 12	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	Crushed Brick
12080686	MP70 BF 13	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	None
12080690	MP70 BF 14	0.00 - 0.00	Black	Sandy Silt Loam	0.1 - 2 mm	Stones	None
12080694	MP70 BF 15	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
12080698	MP70 BF 16	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
12080702	MP70 BF 17	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
12080706	MP70 BF 18	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
12080710	MP70 BF 19	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Brick
12080718	MP70 BF 20	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Plastic
12080722	MP70 BF 21	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
12080726	MP70 BF 22	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Oil/Petroleum
12080730	MP70 BF 23	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
12080734	MP70 BF 24	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	Stones
12080738	MP70 BF 25	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	Stones
12080742	MP70 BF 26	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
12080745	MP70 BF 27	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
12080749	MP70 BF 28	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
12080754	MP70 BF 29	0.00 - 0.00	Dark Brown	Clay	0.063 - 0.1 mm	Stones	Vegetation
12080769	MP70 BF 30	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
12080773	MP70 BF 31	0.00 - 0.00	Dark Brown	Silty Clay	0.063 - 0.1 mm	Stones	N/A
12080777	MP70 BF 32	0.00 - 0.00	Dark Brown	Silt Loam	0.063 - 0.1 mm	Stones	N/A
12080781	MP70 BF 33	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
12080785	MP70 BF 34	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
12080789	MP70 BF 35	0.00 - 0.00	Green	Sandy Loam	0.1 - 2 mm	Brick	Stones
12080794	MP70 BF 36	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
12080799	MP70 BF 37	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

			Colour	Description	Grain size	Inclusions	Inclusions 2
12080804	MP70 BF 38	0.00 - 0.00	Green	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
12080816	MP70 BF 40	0.00 - 0.00	Green	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
12080820	MP70 BF 41	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	N/A
12080824	MP70 BF 42	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Crushed Brick	Stones
12080828	MP70 BF 43	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
12080832	MP70 BF 44	0.00 - 0.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
12080836	MP70 BF 45	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 1	MP70 BF 2	MP70 BF 3	MP70 BF 4	MP70 BF 5	MP70 BF 6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080662	12080714	12080760	12080812	12080840	12080844
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		9.5	7.4	7.7	7.4	7.1	12
Soil Organic Matter (SOM)	<0.35 %	TM132		3.31 #	4.79 #	4.69 #	3.91 #	3.5 #	1.56 #
pH	1 pH Units	TM133		7.93 M	8.05 M	8.03 M	8.04 M	8.04 M	8.68 M
Arsenic	<0.6 mg/kg	TM181		33.9 M	25.5 M	26.1 M	22.5 M	22.1 M	26 M
Cadmium	<0.02 mg/kg	TM181		0.69 M	0.606 M	0.661 M	0.59 M	0.677 M	2.71 M
Chromium	<0.9 mg/kg	TM181		18.7 M	15.1 M	16.9 M	18.4 M	16.8 M	33.1 M
Copper	<1.4 mg/kg	TM181		160 M	94.7 M	113 M	102 M	91.4 M	28.2 M
Lead	<0.7 mg/kg	TM181		104 M	99.8 M	96.6 M	90.7 M	106 M	125 M
Mercury	<0.14 mg/kg	TM181		0.972 M	0.681 M	1.13 M	0.934 M	0.971 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		33.4 M	23.6 M	32.5 M	28.7 M	29.7 M	34.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	2.79 #
Vanadium	<0.2 mg/kg	TM181		24.3 #	24.8 #	20.2 #	25 #	20.4 #	70.6 #
Zinc	<1.9 mg/kg	TM181		299 M	218 M	249 M	211 M	231 M	884 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 7	MP70 BF 8	MP70 BF 9	MP70 BF 10	MP70 BF 11	MP70 BF 12
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080848	12080852	12080856	12080670	12080677	12080682
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		6.2	11	9	9.9	9.4	12
Soil Organic Matter (SOM)	<0.35 %	TM132		1.59 #	2.67 #	2.79 #	4.48 #	2.84 #	4.24 #
pH	1 pH Units	TM133		8.33 M	8.12 M	8.17 M	7.96 M	8.02 M	7.98 M
Arsenic	<0.6 mg/kg	TM181		14.1 M	14.6 M	17.9 M	19.6 M	18.9 M	32.4 M
Cadmium	<0.02 mg/kg	TM181		0.263 M	0.347 M	0.677 M	0.581 M	0.311 M	0.856 M
Chromium	<0.9 mg/kg	TM181		11.6 M	20.6 M	15.1 M	14.8 M	17.1 M	17.8 M
Copper	<1.4 mg/kg	TM181		28.1 M	42.7 M	50.7 M	73.6 M	55.8 M	154 M
Lead	<0.7 mg/kg	TM181		50.1 M	52.5 M	67.1 M	77.9 M	63.9 M	163 M
Mercury	<0.14 mg/kg	TM181		0.619 M	0.459 M	2.83 M	0.486 M	0.787 M	1.05 M
Nickel	<0.2 mg/kg	TM181		37.7 M	40.3 M	25.8 M	24.7 M	35.1 M	29.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		15.1 #	23.5 #	24.1 #	19.4 #	19.1 #	27 #
Zinc	<1.9 mg/kg	TM181		142 M	149 M	213 M	182 M	156 M	368 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 13	MP70 BF 14	MP70 BF 15	MP70 BF 16	MP70 BF 17	MP70 BF 18
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080686	12080690	12080694	12080698	12080702	12080706
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		8.3	10	10	10	9.7	9.7
Soil Organic Matter (SOM)	<0.35 %	TM132		2.69 #	5.22 #	2.29 #	7.34 #	2.12 #	2.33 #
pH	1 pH Units	TM133		8 M	7.98 M	8.23 M	7.8 M	8.27 M	8.19 M
Arsenic	<0.6 mg/kg	TM181		16 M	32.8 M	22 M	45.6 M	19.7 M	17.7 M
Cadmium	<0.02 mg/kg	TM181		0.357 M	0.825 M	0.6 M	0.958 M	0.349 M	0.323 M
Chromium	<0.9 mg/kg	TM181		14.9 M	21.6 M	15.5 M	19.4 M	14.3 M	16.7 M
Copper	<1.4 mg/kg	TM181		38.1 M	125 M	75.9 M	156 M	51.7 M	54.2 M
Lead	<0.7 mg/kg	TM181		54.6 M	126 M	72.7 M	141 M	60.4 M	85.2 M
Mercury	<0.14 mg/kg	TM181		0.706 M	1.48 M	0.778 M	1.1 M	0.585 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		33.9 M	30.7 M	25.6 M	33.7 M	35 M	39.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		18.1 #	23.7 #	22 #	29.7 #	17.2 #	18.7 #
Zinc	<1.9 mg/kg	TM181		142 M	299 M	237 M	319 M	172 M	164 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 19	MP70 BF 20	MP70 BF 21	MP70 BF 22	MP70 BF 23	MP70 BF 24
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080710	12080718	12080722	12080726	12080730	12080734
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	11	11	11	11	13
Soil Organic Matter (SOM)	<0.35 %	TM132		4.09 #	5.93 #	1.9 #	1.26 #	4.91 #	1.4 #
pH	1 pH Units	TM133		8.07 M	7.71 M	8.07 M	7.89 M	7.92 M	8.18 M
Arsenic	<0.6 mg/kg	TM181		29.3 M	32.7 M	13.8 M	12.7 M	27.7 M	18.9 M
Cadmium	<0.02 mg/kg	TM181		0.596 M	1.21 M	0.642 M	0.209 M	0.725 M	1 M
Chromium	<0.9 mg/kg	TM181		27 M	18.1 M	16.7 M	16.1 M	19 M	23 M
Copper	<1.4 mg/kg	TM181		91.6 M	84.6 M	29.3 M	20.3 M	75.5 M	40 M
Lead	<0.7 mg/kg	TM181		82.5 M	111 M	57.6 M	21.9 M	110 M	91.8 M
Mercury	<0.14 mg/kg	TM181		0.908 M	0.41 M	0.234 M	<0.14 M	2.9 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		26.3 M	31.1 M	19.6 M	42.7 M	24.8 M	36.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	1.14 #
Vanadium	<0.2 mg/kg	TM181		29.9 #	23.2 #	27 #	15.1 #	23.8 #	34.5 #
Zinc	<1.9 mg/kg	TM181		205 M	249 M	202 M	106 M	196 M	277 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 25	MP70 BF 26	MP70 BF 27	MP70 BF 28	MP70 BF 29	MP70 BF 30
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080738	12080742	12080745	12080749	12080754	12080769
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		9.4	11	8.6	11	13	7.4
Soil Organic Matter (SOM)	<0.35 %	TM132		1.33 #	3.72 #	2.34 #	2.29 #	1.27 #	1.67 #
pH	1 pH Units	TM133		8.08 M	8 M	8.42 M	8 M	8.06 M	7.15 M
Arsenic	<0.6 mg/kg	TM181		17.4 M	24.5 M	19.1 M	19.8 M	16.8 M	14 M
Cadmium	<0.02 mg/kg	TM181		1.27 M	0.91 M	0.456 M	0.612 M	1.54 M	0.425 M
Chromium	<0.9 mg/kg	TM181		23 M	17.2 M	16 M	16.8 M	22 M	15.4 M
Copper	<1.4 mg/kg	TM181		26.8 M	72.8 M	77.4 M	36.5 M	25.9 M	40.2 M
Lead	<0.7 mg/kg	TM181		84.8 M	111 M	82.5 M	86.3 M	79.3 M	56.8 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	1.02 M	1.43 M	1.19 M	<0.14 M	0.153 M
Nickel	<0.2 mg/kg	TM181		26 M	32.4 M	34.4 M	23.5 M	23 M	28.8 M
Selenium	<1 mg/kg	TM181		1.74 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		36.9 #	22.9 #	18.2 #	26.4 #	35.5 #	18.7 #
Zinc	<1.9 mg/kg	TM181		371 M	218 M	244 M	303 M	388 M	154 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 31	MP70 BF 32	MP70 BF 33	MP70 BF 34	MP70 BF 35	MP70 BF 36
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080773	12080777	12080781	12080785	12080789	12080794
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	12	8.2	11	13	15
Soil Organic Matter (SOM)	<0.35 %	TM132		2.79 #	2.36 #	2.41 #	13.3 #	7.48 #	1.32 #
pH	1 pH Units	TM133		7.96 M	8.06 M	8.08 M	8.03 M	8.15 M	8.03 M
Arsenic	<0.6 mg/kg	TM181		31.5 M	31.1 M	23.1 M	36 M	33.1 M	19.3 M
Cadmium	<0.02 mg/kg	TM181		1.91 M	0.848 M	0.558 M	0.795 M	0.779 M	1.45 M
Chromium	<0.9 mg/kg	TM181		17 M	17.3 M	16.6 M	16.4 M	18.3 M	24.5 M
Copper	<1.4 mg/kg	TM181		81.3 M	82 M	61.8 M	169 M	166 M	22.4 M
Lead	<0.7 mg/kg	TM181		69.6 M	76.6 M	52.3 M	137 M	119 M	89.2 M
Mercury	<0.14 mg/kg	TM181		2.54 M	0.913 M	0.533 M	0.512 M	0.519 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		27.2 M	26.2 M	32.8 M	28.5 M	31.1 M	26.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	2.11 #
Vanadium	<0.2 mg/kg	TM181		21.2 #	22.2 #	17.5 #	23.8 #	26 #	43 #
Zinc	<1.9 mg/kg	TM181		221 M	203 M	209 M	420 M	218 M	483 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 37	MP70 BF 38	MP70 BF39	MP70 BF 40	MP70 BF 41	MP70 BF 42
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080799	12080804	12080808	12080816	12080820	12080824
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	9.9	11	13	14	12
Soil Organic Matter (SOM)	<0.35 %	TM132		10 #	3.02 #	4.34 #	6.5 #	5.29 #	3.98 #
pH	1 pH Units	TM133		8.05 M	8.05 M	7.98 M	8.08 M	8.18 M	7.98 M
Arsenic	<0.6 mg/kg	TM181		23.9 M	31.8 M	30.2 M	34.5 M	25.2 M	23.8 M
Cadmium	<0.02 mg/kg	TM181		0.675 M	0.975 M	0.617 M	0.547 M	1.26 M	0.659 M
Chromium	<0.9 mg/kg	TM181		48.7 M	21.3 M	24.5 M	67.5 M	22.5 M	16 M
Copper	<1.4 mg/kg	TM181		110 M	96.9 M	86 M	90.8 M	65.7 M	85.2 M
Lead	<0.7 mg/kg	TM181		90.8 M	218 M	136 M	84.2 M	102 M	130 M
Mercury	<0.14 mg/kg	TM181		0.437 M	0.778 M	0.539 M	0.319 M	<0.14 M	1.39 M
Nickel	<0.2 mg/kg	TM181		23.2 M	33.9 M	27.8 M	29 M	37.2 M	27.7 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	1.63 #	<1 #
Vanadium	<0.2 mg/kg	TM181		32.5 #	26 #	24.2 #	31.8 #	34 #	19.6 #
Zinc	<1.9 mg/kg	TM181		199 M	490 M	315 M	178 M	339 M	246 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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)

Customer Sample Ref.	MP70 BF 43	MP70 BF 44	MP70 BF 45			
Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
Date Sampled	16/09/2015	16/09/2015	16/09/2015			
Sample Time	-	-	-			
Date Received	17/09/2015	17/09/2015	17/09/2015			
SDG Ref	150917-84	150917-84	150917-84			
Lab Sample No.(s)	12080828	12080832	12080836			
AGS Reference						

Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	16	15	12			
Soil Organic Matter (SOM)	<0.35 %	TM132	5.72 #	1.13 #	2.22 #			
pH	1 pH Units	TM133	7.66 M	8.28 M	8.04 M			
Arsenic	<0.6 mg/kg	TM181	35 M	16.4 M	18.1 M			
Cadmium	<0.02 mg/kg	TM181	0.903 M	0.404 M	0.658 M			
Chromium	<0.9 mg/kg	TM181	16.8 M	26.1 M	18.4 M			
Copper	<1.4 mg/kg	TM181	96.3 M	27 M	41.7 M			
Lead	<0.7 mg/kg	TM181	248 M	67.9 M	82.3 M			
Mercury	<0.14 mg/kg	TM181	34.2 M	<0.14 M	0.537 M			
Nickel	<0.2 mg/kg	TM181	25.3 M	23 M	23.2 M			
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #			
Vanadium	<0.2 mg/kg	TM181	23.6 #	37 #	27.1 #			
Zinc	<1.9 mg/kg	TM181	243 M	169 M	175 M			

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 1	MP70 BF 2	MP70 BF 3	MP70 BF 4	MP70 BF 5	MP70 BF 6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080662	12080714	12080760	12080812	12080840	12080844
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		103	99.1	99.5	103	103	104
Acenaphthene-d10 % recovery**	%	TM218		105	93.3	93.1	99.5	99.4	106
Phenanthrene-d10 % recovery**	%	TM218		103	90.6	89.8	97.8	97.7	103
Chrysene-d12 % recovery**	%	TM218		100	92.5	88	100	99.6	99.7
Perylene-d12 % recovery**	%	TM218		108	90.7	87.4	97.5	95.7	109
Naphthalene	<9 µg/kg	TM218		61.5 M	113 M	123 M	259 M	108 M	15.2 M
Acenaphthylene	<12 µg/kg	TM218		18.8 M	25.1 M	20.4 M	59.8 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		30.1 M	243 M	52.1 M	613 M	93 M	<8 M
Fluorene	<10 µg/kg	TM218		75.6 M	191 M	101 M	544 M	124 M	<10 M
Phenanthrene	<15 µg/kg	TM218		442 M	2910 M	651 M	2930 M	719 M	87.4 M
Anthracene	<16 µg/kg	TM218		103 M	728 M	120 M	678 M	730 M	23.9 M
Fluoranthene	<17 µg/kg	TM218		486 M	4690 M	673 M	4070 M	899 M	155 M
Pyrene	<15 µg/kg	TM218		449 M	4040 M	935 M	3330 M	940 M	133 M
Benz(a)anthracene	<14 µg/kg	TM218		313 M	3050 M	699 M	2810 M	733 M	117 M
Chrysene	<10 µg/kg	TM218		335 M	2620 M	959 M	2770 M	1100 M	104 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		574 M	3100 M	931 M	4150 M	1440 M	146 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		165 M	1110 M	258 M	1530 M	1420 M	54 M
Benzo(a)pyrene	<15 µg/kg	TM218		345 M	2360 M	586 M	2970 M	721 M	104 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		189 M	1110 M	314 M	1650 M	421 M	55.5 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		95.8 M	467 M	200 M	649 M	191 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		237 M	1170 M	397 M	1870 M	527 M	62.1 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		3920	27900	7020	30900	10200	1060

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 7	MP70 BF 8	MP70 BF 9	MP70 BF 10	MP70 BF 11	MP70 BF 12
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080848	12080852	12080856	12080670	12080677	12080682
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		99.1	99.9	100	91.9	97.9	103
Acenaphthene-d10 % recovery**	%	TM218		99.6	99.6	99.2	91.8	96.9	105
Phenanthrene-d10 % recovery**	%	TM218		99.3	98.9	98.3	90.7	95.7	104
Chrysene-d12 % recovery**	%	TM218		92.9	92.9	92.5	92.6	90.7	99.9
Perylene-d12 % recovery**	%	TM218		98.1	98.8	99.7	98.1	99	106
Naphthalene	<9 µg/kg	TM218		135 M	51.2 M	68.6 M	85.2 M	69.3 M	75.7 M
Acenaphthylene	<12 µg/kg	TM218		28.8 M	<12 M	26.6 M	<12 M	<12 M	37.7 M
Acenaphthene	<8 µg/kg	TM218		129 M	23.7 M	32.1 M	<8 M	30.1 M	148 M
Fluorene	<10 µg/kg	TM218		288 M	50.2 M	88.3 M	111 M	65.2 M	149 M
Phenanthrene	<15 µg/kg	TM218		842 M	282 M	605 M	602 M	387 M	988 M
Anthracene	<16 µg/kg	TM218		196 M	55.4 M	156 M	614 M	90.1 M	229 M
Fluoranthene	<17 µg/kg	TM218		626 M	300 M	813 M	539 M	387 M	1280 M
Pyrene	<15 µg/kg	TM218		658 M	334 M	777 M	512 M	539 M	1040 M
Benz(a)anthracene	<14 µg/kg	TM218		397 M	242 M	714 M	391 M	314 M	916 M
Chrysene	<10 µg/kg	TM218		501 M	310 M	1670 M	508 M	446 M	1060 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		502 M	463 M	844 M	336 M	425 M	1420 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		194 M	136 M	281 M	306 M	139 M	419 M
Benzo(a)pyrene	<15 µg/kg	TM218		412 M	322 M	649 M	367 M	302 M	852 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		220 M	197 M	372 M	227 M	179 M	489 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		97.3 M	87.5 M	194 M	<23 M	93.1 M	231 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		271 M	247 M	449 M	268 M	227 M	546 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		5500	3100	7740	4870	3690	9880

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 13	MP70 BF 14	MP70 BF 15	MP70 BF 16	MP70 BF 17	MP70 BF 18
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080686	12080690	12080694	12080698	12080702	12080706
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		98.6	95.3	94.3	86.6	91.1	100
Acenaphthene-d10 % recovery**	%	TM218		98.9	95.5	92.3	85.4	90.6	99.9
Phenanthrene-d10 % recovery**	%	TM218		97.9	94	92.4	83.5	87.1	98.6
Chrysene-d12 % recovery**	%	TM218		92.1	97.8	86.2	89.8	90.9	91.9
Perylene-d12 % recovery**	%	TM218		101	105	88.3	94.4	99.7	98.6
Naphthalene	<9 µg/kg	TM218		76.8 M	93.2 M	27.2 M	121 M	73.8 M	54.6 M
Acenaphthylene	<12 µg/kg	TM218		21.5 M	<12 M	<12 M	26.2 M	<12 M	16.9 M
Acenaphthene	<8 µg/kg	TM218		51.2 M	<8 M	16.7 M	70.4 M	26.6 M	154 M
Fluorene	<10 µg/kg	TM218		118 M	101 M	25.9 M	92.5 M	71 M	131 M
Phenanthrene	<15 µg/kg	TM218		347 M	879 M	178 M	571 M	268 M	716 M
Anthracene	<16 µg/kg	TM218		112 M	899 M	34.5 M	133 M	63.8 M	132 M
Fluoranthene	<17 µg/kg	TM218		440 M	876 M	209 M	965 M	318 M	831 M
Pyrene	<15 µg/kg	TM218		513 M	998 M	211 M	827 M	356 M	627 M
Benz(a)anthracene	<14 µg/kg	TM218		306 M	1190 M	149 M	743 M	260 M	522 M
Chrysene	<10 µg/kg	TM218		339 M	1740 M	197 M	752 M	351 M	608 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		520 M	1540 M	271 M	1340 M	424 M	670 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		205 M	347 M	67.6 M	344 M	125 M	217 M
Benzo(a)pyrene	<15 µg/kg	TM218		388 M	1010 M	147 M	786 M	272 M	419 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		226 M	529 M	96.2 M	420 M	151 M	242 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		97.9 M	306 M	43.6 M	167 M	62.7 M	112 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		277 M	668 M	140 M	511 M	191 M	273 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		4040	11200	1810	7870	3010	5730

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 19	MP70 BF 20	MP70 BF 21	MP70 BF 22	MP70 BF 23	MP70 BF 24
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080710	12080718	12080722	12080726	12080730	12080734
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		90.3	93.5	94.7	97	92.2	91
Acenaphthene-d10 % recovery**	%	TM218		89.3	92.7	94.7	96	91.7	90.2
Phenanthrene-d10 % recovery**	%	TM218		87	92.1	93	95.4	91.1	88.8
Chrysene-d12 % recovery**	%	TM218		89.8	88.3	96.7	86.8	88	93.9
Perylene-d12 % recovery**	%	TM218		97.7	91.5	104	88.8	92.2	98.5
Naphthalene	<9 µg/kg	TM218		51 M	95 M	153 M	25.6 M	109 M	42 M
Acenaphthylene	<12 µg/kg	TM218		14.6 M	15.4 M	<12 M	<12 M	48.4 M	17.2 M
Acenaphthene	<8 µg/kg	TM218		25.6 M	58.7 M	194 M	<8 M	93.1 M	24.6 M
Fluorene	<10 µg/kg	TM218		55.8 M	208 M	170 M	23.3 M	146 M	48.9 M
Phenanthrene	<15 µg/kg	TM218		920 M	2020 M	1340 M	89.2 M	867 M	437 M
Anthracene	<16 µg/kg	TM218		119 M	255 M	1380 M	<16 M	186 M	87 M
Fluoranthene	<17 µg/kg	TM218		510 M	1020 M	1880 M	27 M	1060 M	486 M
Pyrene	<15 µg/kg	TM218		582 M	1700 M	1470 M	30.7 M	1020 M	486 M
Benz(a)anthracene	<14 µg/kg	TM218		463 M	991 M	1330 M	<14 M	848 M	370 M
Chrysene	<10 µg/kg	TM218		813 M	2000 M	1480 M	54.3 M	1070 M	400 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		623 M	1250 M	1620 M	58.5 M	1180 M	540 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		203 M	303 M	523 M	<14 M	397 M	155 M
Benzo(a)pyrene	<15 µg/kg	TM218		416 M	708 M	1120 M	<15 M	698 M	330 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		247 M	413 M	668 M	<18 M	402 M	172 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		128 M	254 M	274 M	<23 M	190 M	76.3 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		295 M	548 M	842 M	<24 M	530 M	209 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		5470	11800	14500	308	8840	3880

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 25	MP70 BF 26	MP70 BF 27	MP70 BF 28	MP70 BF 29	MP70 BF 30
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080738	12080742	12080745	12080749	12080754	12080769
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		102	91.4	92.3	94.1	93.1	104
Acenaphthene-d10 % recovery**	%	TM218		94.5	90.5	92.3	93.5	91.9	106
Phenanthrene-d10 % recovery**	%	TM218		91	88	89.7	91.2	88.9	103
Chrysene-d12 % recovery**	%	TM218		86.5	92.3	93.4	98.3	91.8	102
Perylene-d12 % recovery**	%	TM218		88.9	99.9	102	108	101	110
Naphthalene	<9 µg/kg	TM218		<9 M	397 M	61.8 M	108 M	26 M	112 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	22.8 M	40.7 M	228 M	33.3 M	18.9 M
Acenaphthene	<8 µg/kg	TM218		<8 M	220 M	29.6 M	91.7 M	38.2 M	146 M
Fluorene	<10 µg/kg	TM218		<10 M	294 M	62.6 M	389 M	50.2 M	289 M
Phenanthrene	<15 µg/kg	TM218		82.7 M	1640 M	359 M	2840 M	412 M	853 M
Anthracene	<16 µg/kg	TM218		22.2 M	320 M	107 M	1210 M	89.7 M	139 M
Fluoranthene	<17 µg/kg	TM218		162 M	1730 M	609 M	6820 M	576 M	382 M
Pyrene	<15 µg/kg	TM218		181 M	1350 M	598 M	4330 M	451 M	469 M
Benz(a)anthracene	<14 µg/kg	TM218		129 M	1160 M	524 M	6930 M	364 M	288 M
Chrysene	<10 µg/kg	TM218		153 M	954 M	562 M	8290 M	413 M	343 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		133 M	1470 M	802 M	9520 M	520 M	396 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		49.7 M	463 M	271 M	2950 M	184 M	103 M
Benzo(a)pyrene	<15 µg/kg	TM218		96.7 M	1000 M	547 M	5000 M	365 M	264 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		51.4 M	476 M	310 M	2540 M	186 M	143 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	207 M	129 M	1460 M	93.2 M	63.8 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		58.7 M	525 M	375 M	2330 M	230 M	170 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1120	12200	5390	55000	4030	4180

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 31	MP70 BF 32	MP70 BF 33	MP70 BF 34	MP70 BF 35	MP70 BF 36
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080773	12080777	12080781	12080785	12080789	12080794
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		106	93.7	106	90.7	102	106
Acenaphthene-d10 % recovery**	%	TM218		107	94.1	107	89.3	102	106
Phenanthrene-d10 % recovery**	%	TM218		102	92.1	102	89.4	97.8	101
Chrysene-d12 % recovery**	%	TM218		108	97.7	107	85.6	97.9	101
Perylene-d12 % recovery**	%	TM218		110	109	108	88.1	98.3	102
Naphthalene	<9 µg/kg	TM218		70.1 M	98.3 M	91.4 M	63.3 M	76.3 M	16.5 M
Acenaphthylene	<12 µg/kg	TM218		55.8 M	41.2 M	47.3 M	26.4 M	18 M	17.2 M
Acenaphthene	<8 µg/kg	TM218		94.3 M	45.4 M	72.5 M	83.6 M	27 M	<8 M
Fluorene	<10 µg/kg	TM218		122 M	104 M	143 M	114 M	43.5 M	<10 M
Phenanthrene	<15 µg/kg	TM218		611 M	602 M	1230 M	1280 M	413 M	124 M
Anthracene	<16 µg/kg	TM218		171 M	230 M	245 M	344 M	65.8 M	34.4 M
Fluoranthene	<17 µg/kg	TM218		816 M	943 M	1140 M	3000 M	371 M	243 M
Pyrene	<15 µg/kg	TM218		857 M	1110 M	1700 M	2490 M	399 M	188 M
Benz(a)anthracene	<14 µg/kg	TM218		662 M	906 M	1280 M	1960 M	283 M	151 M
Chrysene	<10 µg/kg	TM218		978 M	1250 M	2490 M	1810 M	554 M	122 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		939 M	1880 M	1400 M	2500 M	398 M	165 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		317 M	549 M	395 M	812 M	123 M	63.5 M
Benzo(a)pyrene	<15 µg/kg	TM218		603 M	1270 M	899 M	1710 M	224 M	113 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		430 M	751 M	532 M	858 M	149 M	57.3 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		196 M	331 M	358 M	315 M	85.1 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		544 M	894 M	705 M	960 M	196 M	66.9 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		7470	11000	12700	18300	3430	1360

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 37	MP70 BF 38	MP70 BF39	MP70 BF 40	MP70 BF 41	MP70 BF 42
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080799	12080804	12080808	12080816	12080820	12080824
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		106	101	114	107	105	87.8
Acenaphthene-d10 % recovery**	%	TM218		108	101	115	108	106	86.8
Phenanthrene-d10 % recovery**	%	TM218		103	96.9	110	104	102	84.8
Chrysene-d12 % recovery**	%	TM218		106	98.5	112	107	106	91.6
Perylene-d12 % recovery**	%	TM218		106	99.1	113	109	109	97.2
Naphthalene	<9 µg/kg	TM218		68.4 M	127 M	139 M	3930 M	85.8 M	61.2 M
Acenaphthylene	<12 µg/kg	TM218		31.2 M	29.3 M	38.1 M	41.3 M	70.2 M	27.6 M
Acenaphthene	<8 µg/kg	TM218		51.4 M	143 M	90.6 M	2230 M	189 M	21.5 M
Fluorene	<10 µg/kg	TM218		65 M	157 M	219 M	2700 M	422 M	45.5 M
Phenanthrene	<15 µg/kg	TM218		512 M	834 M	1240 M	14300 M	2960 M	373 M
Anthracene	<16 µg/kg	TM218		123 M	202 M	287 M	3030 M	902 M	83.8 M
Fluoranthene	<17 µg/kg	TM218		755 M	1050 M	1420 M	13700 M	4540 M	508 M
Pyrene	<15 µg/kg	TM218		831 M	895 M	1500 M	11100 M	3790 M	516 M
Benz(a)anthracene	<14 µg/kg	TM218		630 M	673 M	987 M	8210 M	2340 M	488 M
Chrysene	<10 µg/kg	TM218		1070 M	772 M	1440 M	8550 M	2590 M	666 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		768 M	965 M	1150 M	7760 M	2260 M	756 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		274 M	368 M	411 M	2450 M	1010 M	211 M
Benzo(a)pyrene	<15 µg/kg	TM218		510 M	654 M	757 M	4920 M	1720 M	460 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		296 M	389 M	450 M	2350 M	972 M	250 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		145 M	163 M	232 M	1290 M	409 M	134 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		365 M	476 M	564 M	2540 M	1100 M	314 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		6500	7900	10900	89100	25400	4910

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 43	MP70 BF 44	MP70 BF 45			
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	16/09/2015	16/09/2015	16/09/2015			
			Sample Time	-	-	-			
			Date Received	17/09/2015	17/09/2015	17/09/2015			
			SDG Ref	150917-84	150917-84	150917-84			
			Lab Sample No.(s)	12080828	12080832	12080836			
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		96.4	102	92.6			
Acenaphthene-d10 % recovery**	%	TM218		96	103	91.5			
Phenanthrene-d10 % recovery**	%	TM218		94.5	99.3	90.2			
Chrysene-d12 % recovery**	%	TM218		97.1	100	95.8			
Perylene-d12 % recovery**	%	TM218		103	102	101			
Naphthalene	<9 µg/kg	TM218		75 M	<9 M	26.2 M			
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M			
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	10.1 M			
Fluorene	<10 µg/kg	TM218		93 M	<10 M	23 M			
Phenanthrene	<15 µg/kg	TM218		478 M	84.1 M	156 M			
Anthracene	<16 µg/kg	TM218		487 M	22.9 M	37.9 M			
Fluoranthene	<17 µg/kg	TM218		522 M	156 M	231 M			
Pyrene	<15 µg/kg	TM218		531 M	126 M	259 M			
Benz(a)anthracene	<14 µg/kg	TM218		528 M	118 M	200 M			
Chrysene	<10 µg/kg	TM218		1260 M	97.7 M	277 M			
Benzo(b)fluoranthene	<15 µg/kg	TM218		443 M	139 M	407 M			
Benzo(k)fluoranthene	<14 µg/kg	TM218		887 M	45.9 M	113 M			
Benzo(a)pyrene	<15 µg/kg	TM218		486 M	94.4 M	246 M			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		283 M	52.4 M	133 M			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	68.3 M			
Benzo(g,h,i)perylene	<24 µg/kg	TM218		361 M	63.3 M	174 M			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		6440	999	2360			

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 1	MP70 BF 2	MP70 BF 3	MP70 BF 4	MP70 BF 5	MP70 BF 6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080662	12080714	12080760	12080812	12080840	12080844
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		71	64	73	61	62	87
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		819 M	4770 M	3450 M	4270 M	4230 M	4170 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	8.64 M	10.8 M	16.2 M	34.4 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 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	34.4	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		57.7	114	62.8	111	130	65
Aliphatics >C8-C10	<10 µg/kg	TM089		108	840	509	642	679	321
Aliphatics >C10-C12	<10 µg/kg	TM089		334	1940	1500	1830	1740	2120
Aliphatics >C12-C16	<100 µg/kg	TM173		13800	14000	76000	59300	69000	5000
Aliphatics >C16-C21	<100 µg/kg	TM173		23700	27500	96500	67600	79000	15600
Aliphatics >C21-C35	<100 µg/kg	TM173		59800	112000	272000	178000	196000	36100
Aliphatics >C35-C44	<100 µg/kg	TM173		20500	20600	122000	49700	54500	13300
Total Aliphatics >C12-C44	<100 µg/kg	TM173		118000	174000	567000	355000	398000	70100
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		75.5	561	350	431	461	223
Aromatics >EC10-EC12	<10 µg/kg	TM089		223	1290	1000	1220	1160	1410
Aromatics >EC12-EC16	<100 µg/kg	TM173		11200	5280	15200	14100	14100	2140
Aromatics >EC16-EC21	<100 µg/kg	TM173		53500	22300	43600	37700	39700	7720
Aromatics >EC21-EC35	<100 µg/kg	TM173		128000	110000	161000	133000	141000	38000
Aromatics >EC35-EC44	<100 µg/kg	TM173		47400	48700	72800	61700	57300	19600
Aromatics >EC40-EC44	<100 µg/kg	TM173		18900	17500	27200	23100	20500	8560
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		240000	186000	292000	247000	252000	67500
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		359000	365000	863000	606000	654000	142000

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 7	MP70 BF 8	MP70 BF 9	MP70 BF 10	MP70 BF 11	MP70 BF 12
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080848	12080852	12080856	12080670	12080677	12080682
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		57	71	68	17	74	72
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		9920 M	1960 M	2070 M	639 M	2440 M	5990 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		964 M	40.3 M	34.1 M	<8 M	59.4 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		27.7 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	16.5 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	<9	16.5	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		992	40.3	34.1	<24	75.9	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		264	54.9	149	102	94.6	210
Aliphatics >C8-C10	<10 µg/kg	TM089		1110	249	359	120	375	1120
Aliphatics >C10-C12	<10 µg/kg	TM089		4050	843	744	194	968	2330
Aliphatics >C12-C16	<100 µg/kg	TM173		679000	27700	47300	47100	37800	28500
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	31000	63100	49100	59700	35400
Aliphatics >C21-C35	<100 µg/kg	TM173		894000	74800	234000	92800	279000	72700
Aliphatics >C35-C44	<100 µg/kg	TM173		368000	29400	77200	25700	69100	26000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1940000	163000	422000	215000	445000	163000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		964	40.3	<40	<40	59.4	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		779	174	246	83.3	278	749
Aromatics >EC10-EC12	<10 µg/kg	TM089		2700	562	496	129	646	1560
Aromatics >EC12-EC16	<100 µg/kg	TM173		78400	7840	10700	6150	11400	7700
Aromatics >EC16-EC21	<100 µg/kg	TM173		210000	18800	37400	15800	45200	19000
Aromatics >EC21-EC35	<100 µg/kg	TM173		331000	58000	143000	64200	118000	69200
Aromatics >EC35-EC44	<100 µg/kg	TM173		127000	25000	67600	30700	43400	33100
Aromatics >EC40-EC44	<100 µg/kg	TM173		51900	10100	26700	12500	16100	13600
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		747000	110000	259000	117000	218000	129000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		2700000	274000	683000	332000	666000	298000

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 13	MP70 BF 14	MP70 BF 15	MP70 BF 16	MP70 BF 17	MP70 BF 18
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080686	12080690	12080694	12080698	12080702	12080706
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		71	66	74	60	74	64
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		10900 M	6270 M	255 M	10200 M	4660 M	5050 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<5 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<10 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		253 M	<8 M	<2 M	<8 M	40 M	28.9 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<3 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<6 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<3 M	<12 M	<12 M	<12 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		253	<24	<24	<24	40	28.9
Aliphatics >C5-C6	<10 µg/kg	TM089		91.6	<40	<10	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		416	218	12.2	129	179	127
Aliphatics >C8-C10	<10 µg/kg	TM089		2020	1240	33.3	1690	725	804
Aliphatics >C10-C12	<10 µg/kg	TM089		4070	2380	109	4350	1920	2100
Aliphatics >C12-C16	<100 µg/kg	TM173		128000	31800	17500	88300	63600	76800
Aliphatics >C16-C21	<100 µg/kg	TM173		160000	55300	34600	88600	63300	48900
Aliphatics >C21-C35	<100 µg/kg	TM173		584000	134000	105000	170000	150000	61800
Aliphatics >C35-C44	<100 µg/kg	TM173		215000	44300	36300	45800	43900	11900
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1090000	266000	193000	393000	321000	199000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<10	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		253	<40	<10	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		1350	825	22.2	1140	488	548
Aromatics >EC10-EC12	<10 µg/kg	TM089		2710	1590	73.3	2900	1280	1400
Aromatics >EC12-EC16	<100 µg/kg	TM173		28900	4010	2980	10500	16900	17600
Aromatics >EC16-EC21	<100 µg/kg	TM173		92300	25000	14700	30300	31400	28100
Aromatics >EC21-EC35	<100 µg/kg	TM173		235000	110000	70600	137000	103000	62400
Aromatics >EC35-EC44	<100 µg/kg	TM173		81100	52700	39000	71100	43200	23100
Aromatics >EC40-EC44	<100 µg/kg	TM173		29500	21200	16400	29300	16700	8780
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		438000	191000	127000	249000	195000	131000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1530000	463000	321000	652000	520000	336000

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 19	MP70 BF 20	MP70 BF 21	MP70 BF 22	MP70 BF 23	MP70 BF 24
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080710	12080718	12080722	12080726	12080730	12080734
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		75	71	64	87	80	97
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		9870 M	1600 M	1470 M	24000 M	8950 M	231 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	58.2 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 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	58.2	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40	62.7	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		133	84.8	62.7	3170	209	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		1510	232	243	6350	1470	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		4320	667	584	6080	3760	84
Aliphatics >C12-C16	<100 µg/kg	TM173		31300	33000	8580	8410	126000	19000
Aliphatics >C16-C21	<100 µg/kg	TM173		52700	63000	16100	7260	118000	21700
Aliphatics >C21-C35	<100 µg/kg	TM173		158000	248000	51900	2970	221000	54800
Aliphatics >C35-C44	<100 µg/kg	TM173		50100	70100	18600	<100	76600	18800
Total Aliphatics >C12-C44	<100 µg/kg	TM173		292000	414000	95200	18600	543000	114000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40	58.2	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		1000	155	165	4230	979	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		2880	444	390	4050	2510	56.4
Aromatics >EC12-EC16	<100 µg/kg	TM173		6960	4490	2050	766	17100	2970
Aromatics >EC16-EC21	<100 µg/kg	TM173		26900	29700	7020	1670	50700	13700
Aromatics >EC21-EC35	<100 µg/kg	TM173		130000	219000	37900	1870	180000	60400
Aromatics >EC35-EC44	<100 µg/kg	TM173		76300	116000	22300	592	87800	29000
Aromatics >EC40-EC44	<100 µg/kg	TM173		31300	45500	9240	<100	35900	12000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		241000	370000	69200	4900	336000	106000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		543000	785000	166000	47500	887000	221000

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 25	MP70 BF 26	MP70 BF 27	MP70 BF 28	MP70 BF 29	MP70 BF 30
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080738	12080742	12080745	12080749	12080754	12080769
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		81	84 2	82	89	94	95
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		3230 M	13100 2 M	16700 M	39600 M	<176 M	4710 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 2 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 2 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 2 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 2 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 2 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 2 M	<12 M	<12 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9 2	<9	<9	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24 2	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40 2	42.7	72.8	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		124	345 2	535	3090	<40	151
Aliphatics >C8-C10	<10 µg/kg	TM089		501	2850 2	3360	9870	<40	764
Aliphatics >C10-C12	<10 µg/kg	TM089		1350	4770 2	6340	12000	<40	1950
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	108000	110000	101000	<100	84200
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	84500	104000	97700	<100	56000
Aliphatics >C21-C35	<100 µg/kg	TM173		22600	135000	136000	125000	9080	87100
Aliphatics >C35-C44	<100 µg/kg	TM173		19900	42300	33300	29400	<100	25400
Total Aliphatics >C12-C44	<100 µg/kg	TM173		42500	370000	384000	353000	9080	253000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40 2	<40	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40 2	<40	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		333	1900 2	2240	6580	<40	509
Aromatics >EC10-EC12	<10 µg/kg	TM089		901	3180 2	4220	7990	<40	1300
Aromatics >EC12-EC16	<100 µg/kg	TM173		1220	22400	27500	28400	590	20700
Aromatics >EC16-EC21	<100 µg/kg	TM173		7490	38100	57500	53500	2790	36000
Aromatics >EC21-EC35	<100 µg/kg	TM173		30000	125000	159000	135000	16300	84300
Aromatics >EC35-EC44	<100 µg/kg	TM173		10600	58300	78200	53100	10300	32600
Aromatics >EC40-EC44	<100 µg/kg	TM173		4200	24000	30600	19700	4070	13300
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		49300	244000	323000	270000	30100	174000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		95000	627000	723000	663000	39100	431000

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 31	MP70 BF 32	MP70 BF 33	MP70 BF 34	MP70 BF 35	MP70 BF 36
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080773	12080777	12080781	12080785	12080789	12080794
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		11	81	78	77	70	100
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		1040 M	15500 M	6580 M	4510 M	1840 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	9.2 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 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		<40	58.1	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		129	1330	211	157	97.8	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		202	3330	1050	980	346	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		333	5130	2750	1610	675	42.5
Aliphatics >C12-C16	<100 µg/kg	TM173		127000	168000	133000	28300	41100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		137000	311000	139000	42100	35800	543
Aliphatics >C21-C35	<100 µg/kg	TM173		209000	602000	266000	109000	106000	9030
Aliphatics >C35-C44	<100 µg/kg	TM173		48100	154000	71700	28500	29900	1960
Total Aliphatics >C12-C44	<100 µg/kg	TM173		521000	1240000	610000	208000	212000	11500
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		134	2220	700	653	238	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		223	3420	1840	1080	451	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		29100	41100	32700	3660	3780	190
Aromatics >EC16-EC21	<100 µg/kg	TM173		71300	177000	82600	17700	12200	3090
Aromatics >EC21-EC35	<100 µg/kg	TM173		196000	617000	297000	90900	94500	15100
Aromatics >EC35-EC44	<100 µg/kg	TM173		74600	202000	110000	43900	56600	9100
Aromatics >EC40-EC44	<100 µg/kg	TM173		28400	69600	40500	17800	23300	4520
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		371000	1040000	522000	156000	167000	27400
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		893000	2290000	1140000	369000	381000	39100

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 37	MP70 BF 38	MP70 BF39	MP70 BF 40	MP70 BF 41	MP70 BF 42
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080799	12080804	12080808	12080816	12080820	12080824
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		82	85	77	67	112	87
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		3030 M	14600 M	7190 M	5170 M	10300 M	20600 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		9.04 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 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		<40	<40	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		116	1120	264	96.6	479	624
Aliphatics >C8-C10	<10 µg/kg	TM089		566	3750	1420	856	2720	5620
Aliphatics >C10-C12	<10 µg/kg	TM089		1150	4290	2720	2180	3170	6380
Aliphatics >C12-C16	<100 µg/kg	TM173		23400	81000	63600	45900	35400	46300
Aliphatics >C16-C21	<100 µg/kg	TM173		28900	81600	67900	61000	39900	58100
Aliphatics >C21-C35	<100 µg/kg	TM173		93600	165000	134000	116000	73500	100000
Aliphatics >C35-C44	<100 µg/kg	TM173		26400	56800	41200	23800	19400	23000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		172000	384000	307000	247000	168000	228000
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		396	2500	949	570	1810	3750
Aromatics >EC10-EC12	<10 µg/kg	TM089		766	2860	1810	1450	2110	4250
Aromatics >EC12-EC16	<100 µg/kg	TM173		5360	12100	7180	8850	11000	3890
Aromatics >EC16-EC21	<100 µg/kg	TM173		14700	30100	33000	76700	40600	21400
Aromatics >EC21-EC35	<100 µg/kg	TM173		93200	126000	136000	247000	137000	119000
Aromatics >EC35-EC44	<100 µg/kg	TM173		52600	64800	66700	89200	52000	61200
Aromatics >EC40-EC44	<100 µg/kg	TM173		21200	28100	27100	33800	19600	25000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		166000	233000	243000	422000	241000	206000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		341000	632000	557000	674000	420000	454000

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 43	MP70 BF 44	MP70 BF 45			
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	16/09/2015	16/09/2015	16/09/2015			
			Sample Time	-	-	-			
			Date Received	17/09/2015	17/09/2015	17/09/2015			
			SDG Ref	150917-84	150917-84	150917-84			
			Lab Sample No.(s)	12080828	12080832	12080836			
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		93	87	72			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		22000 M	<176 M	2890 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M			
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M			
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M			
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M			
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M			
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	48.6 M			
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	48.6			
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	48.6			
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40			
Aliphatics >C6-C8	<10 µg/kg	TM089		1300	<40	138			
Aliphatics >C8-C10	<10 µg/kg	TM089		6610	<40	534			
Aliphatics >C10-C12	<10 µg/kg	TM089		5830	67.9	1080			
Aliphatics >C12-C16	<100 µg/kg	TM173		78900	<100	31500			
Aliphatics >C16-C21	<100 µg/kg	TM173		43600	<100	37000			
Aliphatics >C21-C35	<100 µg/kg	TM173		70400	1980	67800			
Aliphatics >C35-C44	<100 µg/kg	TM173		23200	298	18500			
Total Aliphatics >C12-C44	<100 µg/kg	TM173		216000	2270	155000			
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40			
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40			
Aromatics >EC8-EC10	<10 µg/kg	TM089		4410	<40	405			
Aromatics >EC10-EC12	<10 µg/kg	TM089		3880	45.6	721			
Aromatics >EC12-EC16	<100 µg/kg	TM173		8580	<100	2540			
Aromatics >EC16-EC21	<100 µg/kg	TM173		15800	1140	12900			
Aromatics >EC21-EC35	<100 µg/kg	TM173		84400	10100	68500			
Aromatics >EC35-EC44	<100 µg/kg	TM173		58400	10800	34200			
Aromatics >EC40-EC44	<100 µg/kg	TM173		26400	5930	14300			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		167000	22000	118000			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		405000	24500	276000			

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 1	MP70 BF 2	MP70 BF 3	MP70 BF 4	MP70 BF 5	MP70 BF 6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080662	12080714	12080760	12080812	12080840	12080844
			AGS Reference						
Toluene-d8**	%	TM116		79.4	74.8	73.3	75.9	73.8	83
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<7 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 7	MP70 BF 8	MP70 BF 9	MP70 BF 10	MP70 BF 11	MP70 BF 12
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080848	12080852	12080856	12080670	12080677	12080682
			AGS Reference						
Toluene-d8**	%	TM116		73.4	75.8	74.6	81.2	72.4	78.1
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<100 M	<10 M	<10 M
Benzene	<9 µg/kg	TM116		10.3 M	<9 M	<9 M	<90 M	<9 M	<9 M
Toluene	<7 µg/kg	TM116		337 M	17.6 M	12.6 M	<70 M	30.5 M	<7 M
Ethylbenzene	<4 µg/kg	TM116		9.1 M	<4 M	<4 M	<40 M	<4 M	<4 M
p/m-Xylene	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<100 #	<10 #	<10 #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<100 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 13	MP70 BF 14	MP70 BF 15	MP70 BF 16	MP70 BF 17	MP70 BF 18
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080686	12080690	12080694	12080698	12080702	12080706
			AGS Reference						
Toluene-d8**	%	TM116		75	75.8	82	78.1	84	79.5
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<9 µg/kg	TM116		12.4 M	<9 M	<9 M	12 M	<9 M	12 M
Toluene	<7 µg/kg	TM116		120 M	<7 M	<7 M	<7 M	17.1 M	39.3 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 19	MP70 BF 20	MP70 BF 21	MP70 BF 22	MP70 BF 23	MP70 BF 24
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080710	12080718	12080722	12080726	12080730	12080734
			AGS Reference						
Toluene-d8**	%	TM116		79.7	79.8	79.7	85.1	81.2	91.1
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<7 µg/kg	TM116		<7 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 25	MP70 BF 26	MP70 BF 27	MP70 BF 28	MP70 BF 29	MP70 BF 30
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080738	12080742	12080745	12080749	12080754	12080769
			AGS Reference						
Toluene-d8**	%	TM116		85.2	91.2 2	79.8	83.7	92.1	90
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<10 M	<10 2 M	<10 M	<10 M	<10 M	<10 M
Benzene	<9 µg/kg	TM116		<9 M	<9 2 M	10.2 M	20.9 M	<9 M	<9 M
Toluene	<7 µg/kg	TM116		<7 M	<7 2 M	<7 M	29.8 M	<7 M	<7 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 2 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<10 µg/kg	TM116		<10 #	<10 2 #	<10 #	20.3 #	<10 #	<10 #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 2 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 31	MP70 BF 32	MP70 BF 33	MP70 BF 34	MP70 BF 35	MP70 BF 36
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080773	12080777	12080781	12080785	12080789	12080794
			AGS Reference						
Toluene-d8**	%	TM116		76.7	81.3	77.2	79.8	83.6	92.7
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<100 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<9 µg/kg	TM116		<90 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<7 µg/kg	TM116		<70 M	<7 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<4 µg/kg	TM116		<40 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<10 µg/kg	TM116		<100 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<10 µg/kg	TM116		<100 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 37	MP70 BF 38	MP70 BF39	MP70 BF 40	MP70 BF 41	MP70 BF 42
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015	16/09/2015
			Sample Time	-	-	-	-	-	-
			Date Received	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015	17/09/2015
			SDG Ref	150917-84	150917-84	150917-84	150917-84	150917-84	150917-84
			Lab Sample No.(s)	12080799	12080804	12080808	12080816	12080820	12080824
			AGS Reference						
Toluene-d8**	%	TM116		83	80.4	79.5	82.9	80	75.2
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Benzene	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<9 M	<9 M	<9 M
Toluene	<7 µg/kg	TM116		<7 M	10.9 M	<7 M	<7 M	<7 M	<7 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 M	<4 M	<4 M	<4 M	<4 M
p/m-Xylene	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<10 #	<10 #	<10 #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	MP70 BF 43	MP70 BF 44	MP70 BF 45			
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	16/09/2015	16/09/2015	16/09/2015			
			Sample Time	-	-	-			
			Date Received	17/09/2015	17/09/2015	17/09/2015			
			SDG Ref	150917-84	150917-84	150917-84			
			Lab Sample No.(s)	12080828	12080832	12080836			
			AGS Reference						
Toluene-d8**	%	TM116		88.7	89.7	77			
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<10 M	<10 M	<10 M			
Benzene	<9 µg/kg	TM116		<9 M	<9 M	<9 M			
Toluene	<7 µg/kg	TM116		<7 M	<7 M	<7 M			
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 M	<4 M			
p/m-Xylene	<10 µg/kg	TM116		<10 #	<10 #	<10 #			
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<10 M			

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**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 Receieved SDG Original Sample Method Number	MP70 BF 1 0.00 - 0.00 SOLID 16/09/2015 00:00:00 17/09/2015 23:40:14 150917-84 12080662 TM048	23/9/15	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 Receieved SDG Original Sample Method Number	MP70 BF 2 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:31:31 150917-84 12080714 TM048	22/09/2015	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	MP70 BF 3 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:32:34 150917-84 12080760 TM048	22/09/2015	Kevin Bowron	Fibre bundles in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 4 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:33:55 150917-84 12080812 TM048	22/09/2015	Kevin Bowron	Fibre bundles in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 5 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:28:31 150917-84 12080840 TM048	22/09/2015	Kevin Bowron	Fibre bundles in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**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 Receieved SDG Original Sample Method Number	MP70 BF 6 0.00 - 0.00 SOLID 16/09/2015 00:00:00 18/09/2015 01:49:53 150917-84 12080844 TM048	23/9/15	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 Receieved SDG Original Sample Method Number	MP70 BF 7 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:30:11 150917-84 12080848 TM048	22/09/2015	Kevin Gill	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 Receieved SDG Original Sample Method Number	MP70 BF 8 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 13:23:56 150917-84 12080852 TM048	22/09/2015	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 Receieved SDG Original Sample Method Number	MP70 BF 9 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 13:22:23 150917-84 12080856 TM048	23/09/2015	Rebecca Rawlings	Loose fibres in soil	Not Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 10 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 19:36:18 150917-84 12080670 TM048	23/9/15	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 Receieved SDG Original Sample Method Number	MP70 BF 11 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:27:06 150917-84 12080677 TM048	23/09/2015	Rebecca Rawlings	Loose fibres in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 150917-84 **Location:** Coed Darcy **Order Number:** CD1406
Job: H_ATKINS_LDC-373 **Customer:** Atkins Global Ltd **Report Number:** 333075
Client Reference: Phase 70 Trial Pits **Attention:** Barney Irlam **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 Receieved SDG Original Sample Method Number	MP70 BF 12 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 13:12:52 150917-84 12080682 TM048	22/09/2015	Kevin Bowron	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 Receieved SDG Original Sample Method Number	MP70 BF 13 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 13:13:56 150917-84 12080686 TM048	23/09/2015	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 14 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 19:29:36 150917-84 12080690 TM048	22/09/2015	Kevin Gill	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 Receieved SDG Original Sample Method Number	MP70 BF 15 0.00 - 0.00 SOLID 16/09/2015 00:00:00 18/09/2015 01:47:05 150917-84 12080694 TM048	23/9/15	Chris Swindells	-	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 16 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:22:07 150917-84 12080698 TM048	22/09/2015	Kevin Bowron	Fibre bundles in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 17 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 21:19:33 150917-84 12080702 TM048	22/09/2015	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 150917-84 **Location:** Coed Darcy **Order Number:** CD1406
Job: H_ATKINS_LDC-373 **Customer:** Atkins Global Ltd **Report Number:** 333075
Client Reference: Phase 70 Trial Pits **Attention:** Barney Irlam **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 Receieved SDG Original Sample Method Number	MP70 BF 18 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 21:24:20 150917-84 12080706 TM048	22/09/2015	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 19 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 21:37:35 150917-84 12080710 TM048	22/09/2015	Kevin Bowron	Fibre bundles in soil	Not Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 20 0.00 - 0.00 SOLID 16/09/2015 00:00:00 18/09/2015 10:34:11 150917-84 12080718 TM048	23/9/15	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	MP70 BF 21 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 21:26:35 150917-84 12080722 TM048	22/09/2015	Kevin Bowron	Fibre bundles in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 22 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:23:44 150917-84 12080726 TM048	22/09/2015	Kevin Gill	Fibre bundles in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 23 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 21:22:02 150917-84 12080730 TM048	22/09/2015	Kevin Bowron	Loose fibres and fibre bundles in soil	Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 150917-84 **Location:** Coed Darcy **Order Number:** CD1406
Job: H_ATKINS_LDC-373 **Customer:** Atkins Global Ltd **Report Number:** 333075
Client Reference: Phase 70 Trial Pits **Attention:** Barney Irlam **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 Receieved SDG Original Sample Method Number	MP70 BF 24 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 21:40:17 150917-84 12080734 TM048	22/09/2015	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 Receieved SDG Original Sample Method Number	MP70 BF 25 0.00 - 0.00 SOLID 16/09/2015 00:00:00 18/09/2015 10:40:12 150917-84 12080738 TM048	24/09/15	Chris Swindells	Soil containing loose fibres and material typical of asbestos bitumen	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 26 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:18:53 150917-84 12080742 TM048	22/09/2015	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 Receieved SDG Original Sample Method Number	MP70 BF 27 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:17:42 150917-84 12080745 TM048	22/09/2015	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 Receieved SDG Original Sample Method Number	MP70 BF 28 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:15:58 150917-84 12080749 TM048	22/09/2015	Kevin Bowron	Fibre bundles 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 Receieved SDG Original Sample Method Number	MP70 BF 29 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 11:13:51 150917-84 12080754 TM048	22/09/2015	Kevin Gill	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 150917-84 **Location:** Coed Darcy **Order Number:** CD1406
Job: H_ATKINS_LDC-373 **Customer:** Atkins Global Ltd **Report Number:** 333075
Client Reference: Phase 70 Trial Pits **Attention:** Barney Irlam **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 Receieved SDG Original Sample Method Number	MP70 BF 30 0.00 - 0.00 SOLID 16/09/2015 00:00:00 18/09/2015 01:20:05 150917-84 12080769 TM048	23/9/15	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 Receieved SDG Original Sample Method Number	MP70 BF 31 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 10:09:04 150917-84 12080773 TM048	22/09/2015	Kevin Bowron	Fibre bundles in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 32 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 10:10:46 150917-84 12080777 TM048	22/09/2015	Kevin Gill	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 Receieved SDG Original Sample Method Number	MP70 BF 33 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 10:07:32 150917-84 12080781 TM048	22/09/2015	Kevin Bowron	Fibre bundles in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 34 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 15:33:24 150917-84 12080785 TM048	23/9/15	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	MP70 BF 35 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 10:00:50 150917-84 12080789 TM048	22/09/2015	Kevin Gill	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 150917-84 **Location:** Coed Darcy **Order Number:** CD1406
Job: H_ATKINS_LDC-373 **Customer:** Atkins Global Ltd **Report Number:** 333075
Client Reference: Phase 70 Trial Pits **Attention:** Barney Irlam **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 Receieved SDG Original Sample Method Number	MP70 BF 36 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 15:28:00 150917-84 12080794 TM048	23/09/2015	Rebecca Rawlings	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 37 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 15:41:06 150917-84 12080799 TM048	22/09/2015	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	MP70 BF 38 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 19:23:43 150917-84 12080804 TM048	23/9/15	Simon Postlewhite	Fibre bundles	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF39 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 15:38:42 150917-84 12080808 TM048	22/09/2015	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	MP70 BF 40 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 15:36:02 150917-84 12080816 TM048	22/09/2015	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	MP70 BF 41 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 20:18:12 150917-84 12080820 TM048	22/09/2015	Kevin Gill	Soil containing ACM debris	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**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 Receieved SDG Original Sample Method Number	MP70 BF 42 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 19:25:34 150917-84 12080824 TM048	23/9/15	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 Receieved SDG Original Sample Method Number	MP70 BF 43 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 19:39:00 150917-84 12080828 TM048	22/09/2015	Kevin Bowron	Fibre bundles 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 Receieved SDG Original Sample Method Number	MP70 BF 44 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 20:21:07 150917-84 12080832 TM048	22/09/2015	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 Receieved SDG Original Sample Method Number	MP70 BF 45 0.00 - 0.00 SOLID 16/09/2015 00:00:00 21/09/2015 15:44:06 150917-84 12080836 TM048	23/09/2015	Rebecca Rawlings	Loose fibres in soil	Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 2 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:20:03 150917-84 12080714 TM 304	Crocidolite (fibre bundles in soil) (#)	N/C	0.0067 (#)	<0.001 (#)		0.0067 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 3 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:22:10 150917-84 12080760 TM 304	None (#)	N/C	0.0021 (#)	<0.001 (#)		0.0021 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 4 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:13:48 150917-84 12080812 TM 304	None (#)	N/C	0.0041 (#)	<0.001 (#)		0.0041 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 5 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:24:02 150917-84 12080840 TM 304	None (#)	N/C	0.0014 (#)	<0.001 (#)		0.0014 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 11 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:26:23 150917-84 12080677 TM 304	None (#)	N/C	0.0030 (#)	<0.001 (#)		0.003 (#)

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 14 0.00 - 0.00 SOLID 16/09/2015 00:00:00 29/09/2015 03:19:40 150917-84 12080690 TM 304	Amosite (fibre bundles in soil) (#)	N/C	0.0016 (#)	<0.001 (#)		0.0016 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 16 0.00 - 0.00 SOLID 16/09/2015 00:00:00 26/09/2015 08:54:15 150917-84 12080698 TM 304	None (#)	N/C	0.0101 (#)	<0.001 (#)		0.0101 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 17 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 20:51:01 150917-84 12080702 TM 304	Amosite (fibre bundles in soil) (#)	N/C	0.0013 (#)	<0.001 (#)		0.0013 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 19 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 20:53:33 150917-84 12080710 TM 304	Chrysotile (Fibre bundles in soil). (#)	N/C	0.0011 (#)	<0.001 (#)		0.0011 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 20 0.00 - 0.00 SOLID 16/09/2015 00:00:00 07/10/2015 08:04:15 150917-84 12080718 TM 304	None (#)	N/C	0.0013 (#)	<0.001 (#)		0.0013 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 21 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 20:56:28 150917-84 12080722 TM 304	Amosite (Fibre bundles in soil). (#)	N/C	0.0121 (#)	<0.001 (#)		0.0121 (#)

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 22 0.00 - 0.00 SOLID 16/09/2015 00:00:00 26/09/2015 08:58:55 150917-84 12080726 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)		<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 28 0.00 - 0.00 SOLID 16/09/2015 00:00:00 26/09/2015 08:56:09 150917-84 12080749 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)		<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 31 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:40:57 150917-84 12080773 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)		<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 33 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:44:54 150917-84 12080781 TM 304	None (#)	N/C	0.0028 (#)	<0.001 (#)		0.0028 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 35 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:38:25 150917-84 12080789 TM 304	None (#)	N/C	0.0223 (#)	<0.001 (#)		0.0223 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 38 0.00 - 0.00 SOLID 16/09/2015 00:00:00 29/09/2015 03:21:54 150917-84 12080804 TM 304	None (#)	N/C	0.0317 (#)	<0.001 (#)		0.0317 (#)

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF39 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 10:22:14 150917-84 12080808 TM 304	None (#)	N/C	0.0029 (#)	<0.001 (#)		0.0029 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 41 0.00 - 0.00 SOLID 16/09/2015 00:00:00 29/09/2015 03:23:45 150917-84 12080820 TM 304	Amosite (Fibre bundles in soil). (#)	N/C	0.0025 (#)	<0.001 (#)		0.0025 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 43 0.00 - 0.00 SOLID 16/09/2015 00:00:00 29/09/2015 03:26:06 150917-84 12080828 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)		<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 7 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:18:07 150917-84 12080848 TM 304	None (#)	N/C		<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 9 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:58:16 150917-84 12080856 TM 304	Chrysotile (#)	Fibre bundles in soil		0.0011 (#)	<0.001 (#)	0.0012 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 12 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:56:19 150917-84 12080682 TM 304	Amosite (Loose fibres in soil). (#)	N/C		<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 15 0.00 - 0.00 SOLID 16/09/2015 00:00:00 07/10/2015 07:36:21 150917-84 12080694 TM 304	None (#)	N/C		<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 23 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 20:58:20 150917-84 12080730 TM 304	None (#)	N/C		<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 25 0.00 - 0.00 SOLID 16/09/2015 00:00:00 07/10/2015 08:07:40 150917-84 12080738 TM 304	None (#)	N/C		<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 29 0.00 - 0.00 SOLID 16/09/2015 00:00:00 26/09/2015 09:00:57 150917-84 12080754 TM 304	None (#)	N/C		<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 32 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 21:42:54 150917-84 12080777 TM 304	None (#)	N/C		<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 34 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 10:17:12 150917-84 12080785 TM 304	None (#)	Amphibole fibres found during PCM analysis.		<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 37 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 10:25:16 150917-84 12080799 TM 304	None (#)	N/C		<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 40 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 10:19:48 150917-84 12080816 TM 304	None (#)	N/C		0.0021 (#)	<0.001 (#)	0.0021 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	MP70 BF 45 0.00 - 0.00 SOLID 16/09/2015 00:00:00 28/09/2015 10:27:49 150917-84 12080836 TM 304	Chrysotile (#)	Loose fibres in soil		0.0014 (#)	<0.001 (#)	0.0014 (#)

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**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)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
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.

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	12080662	12080714	12080760	12080812	12080840	12080844	12080848	12080852	12080856	12080670
Customer Sample Ref.	MP70 BF 1	MP70 BF 2	MP70 BF 3	MP70 BF 4	MP70 BF 5	MP70 BF 6	MP70 BF 7	MP70 BF 8	MP70 BF 9	MP70 BF 10
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
Asbestos Quant. Detail Gravimetric		06-Oct-2015	30-Sep-2015	01-Oct-2015	01-Oct-2015					
Asbestos Quantification - Full							01-Oct-2015		01-Oct-2015	
EPH CWG (Aliphatic) GC (S)	21-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	21-Sep-2015	22-Sep-2015	21-Sep-2015	22-Sep-2015	23-Sep-2015
EPH CWG (Aromatic) GC (S)	21-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	21-Sep-2015	22-Sep-2015	21-Sep-2015	22-Sep-2015	23-Sep-2015
GRO by GC-FID (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
Metals in solid samples by OES	23-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	25-Sep-2015	25-Sep-2015
PAH by GCMS	21-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015	21-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	23-Sep-2015
pH	24-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	24-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015
Sample description	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	17-Sep-2015	17-Sep-2015	18-Sep-2015	18-Sep-2015	22-Sep-2015
Total Organic Carbon	22-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	24-Sep-2015	24-Sep-2015
TPH CWG GC (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
VOC MS (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	26-Sep-2015

Lab Sample No(s)	12080677	12080682	12080686	12080690	12080694	12080698	12080702	12080706	12080710	12080718
Customer Sample Ref.	MP70 BF 11	MP70 BF 12	MP70 BF 13	MP70 BF 14	MP70 BF 15	MP70 BF 16	MP70 BF 17	MP70 BF 18	MP70 BF 19	MP70 BF 20
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	25-Sep-2015
Asbestos Quant. Detail Gravimetric	06-Oct-2015			06-Oct-2015		30-Sep-2015	06-Oct-2015		30-Sep-2015	09-Oct-2015
Asbestos Quantification - Full		06-Oct-2015			09-Oct-2015					
EPH CWG (Aliphatic) GC (S)	22-Sep-2015	21-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	23-Sep-2015
EPH CWG (Aromatic) GC (S)	22-Sep-2015	21-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	23-Sep-2015
GRO by GC-FID (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	25-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
Metals in solid samples by OES	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015
PAH by GCMS	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	23-Sep-2015
pH	22-Sep-2015	24-Sep-2015	22-Sep-2015	22-Sep-2015	24-Sep-2015	24-Sep-2015	22-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015
Sample description	17-Sep-2015	18-Sep-2015	17-Sep-2015	21-Sep-2015	21-Sep-2015	22-Sep-2015	18-Sep-2015	17-Sep-2015	18-Sep-2015	21-Sep-2015
Total Organic Carbon	22-Sep-2015	22-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	24-Sep-2015
TPH CWG GC (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	25-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
VOC MS (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015

Lab Sample No(s)	12080722	12080726	12080730	12080734	12080738	12080742	12080745	12080749	12080754	12080769
Customer Sample Ref.	MP70 BF 21	MP70 BF 22	MP70 BF 23	MP70 BF 24	MP70 BF 25	MP70 BF 26	MP70 BF 27	MP70 BF 28	MP70 BF 29	MP70 BF 30
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	25-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
Asbestos Quant. Detail Gravimetric	30-Sep-2015	30-Sep-2015						30-Sep-2015		
Asbestos Quantification - Full			05-Oct-2015		09-Oct-2015				02-Oct-2015	
EPH CWG (Aliphatic) GC (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	24-Sep-2015
EPH CWG (Aromatic) GC (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	24-Sep-2015
GRO by GC-FID (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
Metals in solid samples by OES	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
PAH by GCMS	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	21-Sep-2015
pH	23-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015
Sample description	21-Sep-2015	21-Sep-2015	21-Sep-2015	21-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015
Total Organic Carbon	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015
TPH CWG GC (S)	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
VOC MS (S)	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	24-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015

CERTIFICATE OF ANALYSIS

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Lab Sample No(s)	12080808	12080773	12080777	12080781	12080785	12080789	12080794	12080799	12080804	12080816
Customer Sample Ref.	MP70 BF39	MP70 BF 31	MP70 BF 32	MP70 BF 33	MP70 BF 34	MP70 BF 35	MP70 BF 36	MP70 BF 37	MP70 BF 38	MP70 BF 40
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
Asbestos Quant. Detail Gravimetric	02-Oct-2015	30-Sep-2015		01-Oct-2015		05-Oct-2015			01-Oct-2015	
Asbestos Quantification - Full			02-Oct-2015		02-Oct-2015			02-Oct-2015		01-Oct-2015
EPH CWG (Aliphatic) GC (S)	23-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015
EPH CWG (Aromatic) GC (S)	23-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015
GRO by GC-FID (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	23-Sep-2015
Metals in solid samples by OES	23-Sep-2015	25-Sep-2015	25-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	25-Sep-2015	23-Sep-2015	23-Sep-2015
PAH by GCMS	23-Sep-2015	22-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	22-Sep-2015	23-Sep-2015	23-Sep-2015
pH	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015
Sample description	21-Sep-2015	18-Sep-2015	18-Sep-2015	18-Sep-2015	21-Sep-2015	21-Sep-2015	21-Sep-2015	18-Sep-2015	21-Sep-2015	21-Sep-2015
Total Organic Carbon	23-Sep-2015	24-Sep-2015	24-Sep-2015	22-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015
TPH CWG GC (S)	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	23-Sep-2015
VOC MS (S)	25-Sep-2015	26-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	25-Sep-2015	26-Sep-2015	25-Sep-2015

Lab Sample No(s)	12080820	12080824	12080828	12080832	12080836
Customer Sample Ref.	MP70 BF 41	MP70 BF 42	MP70 BF 43	MP70 BF 44	MP70 BF 45
AGS Ref.					
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
Asbestos Quant. Detail Gravimetric	01-Oct-2015		01-Oct-2015		
Asbestos Quantification - Full					01-Oct-2015
EPH CWG (Aliphatic) GC (S)	22-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	23-Sep-2015
EPH CWG (Aromatic) GC (S)	22-Sep-2015	24-Sep-2015	23-Sep-2015	24-Sep-2015	23-Sep-2015
GRO by GC-FID (S)	23-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015
Metals in solid samples by OES	25-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015
PAH by GCMS	22-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015	23-Sep-2015
pH	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015	22-Sep-2015
Sample description	18-Sep-2015	22-Sep-2015	21-Sep-2015	21-Sep-2015	21-Sep-2015
Total Organic Carbon	24-Sep-2015	24-Sep-2015	23-Sep-2015	23-Sep-2015	24-Sep-2015
TPH CWG GC (S)	23-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015	24-Sep-2015
VOC MS (S)	25-Sep-2015	24-Sep-2015	25-Sep-2015	25-Sep-2015	24-Sep-2015

SDG:	150917-84	**Location:**	Coed Darcy	**Order Number:**	CD1406
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	333075
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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 Dimethyphenol, 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 presevation 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

Trial Pit Log

Trialpit No
TPA3
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 20/05/2015
Location: Llandarcy		Dimensions (m): m Depth 3.70 m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
							Made Ground: Dark grey/brown with black spots gravelly, sandy, CLAY. Gr=F-C sub-ang to sub-round. Sa=F-M. Boulders present ~10cm large. Wires @ 0.7m.	1	0
	1.00	ES		1.00					
	1.00	ES					Made Ground: Black- dark grey, sandy (F-M), CLAY. Some wetter sludgy clay- no smell.		
▼	2.00	ES						3	0
				3.00			Weathered sandstone bedrock.	1	1
				3.70			End of pit at 3.70 m		

1
2
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4
5

Remarks: Pit stopped due to bedrock

Stability:

GroundWater Remarks: Water seepage on B-face

AGS

ATKINS

Trial Pit Log

Trialpit No
TPC1
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 20/05/2015
Location: Llandarcy		Dimensions (m): Depth 2.90 m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	0.50	ES					Made Ground: Dark grey/black, gravelly, sandy, CLAY. Gr=F-C sub-round to sub-ang, Sa=M-C. Sewage and hydrocarbon smell.	3	4
	1.50	ES							
				1.90			Weathered sandstone bedrock terminated @ 2.90 due to bedrock.		
	2.50	ES							
				2.90			End of pit at 2.90 m		

Remarks: Pit stopped due to bedrock

Stability:
GroundWater
Remarks:

AGS

ATKINS

Trial Pit Log

Trialpit No
TPC2
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 20/05/2015
Location: Llandarcy		Dimensions (m): Depth 3.90 m m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	0.50	ES					Made Ground: Dark grey-black/brown, clayey, gravelly, SAND. Gr=M-C, sub-ang to sub-round. Sa=F-C. With wires, bricks and rootlets.	1	1
▼	1.50	ES		1.50			Made Ground: Dark brown-black gravelly, sandy, CLAY. Sa=F-M, gr=F-M, sub-ang to sub-round.	2	3
	2.50	ES		2.70			Made Ground: Black sandy, clayey, GRAVEL. Sa=F-M, Gr=F-C sub-ang to sub-rounded.	4	4
▼	3.50	ES		3.90			Angular weathered bedrock clasts in a dark grey sandy, CLAY matrix. Sa=M-C. End of pit at 3.90 m		
				4.50					

1 2 3 4 5

Remarks: Pit stopped due to bedrock

Stability:

GroundWater Remarks: Water seepage on all faces @ 3m & on B-face @ 1.5m

AGS

ATKINS

Trial Pit Log

Trialpit No
TPG1
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 20/05/2015
Location: Llandarcy		Dimensions (m): m Depth 4.20 m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	0.50	ES					Made Ground: Dark brown, gravelly, SAND. Sa=M-C, Gr=F-C rounded to sub-ang. Fragments of brick, wires, plastic sheeting, wood.	1	1
				1.30					
▼	1.50	ES					Made Ground: Grey, clayey, SAND. Sa=F-C. Fragments of rock= sub-round to sub-ang. On C & D-face there is lots of bricks (pocket of bricks in black sandy matrix).		
	2.50	ES						2	3
	3.50	ES							
				3.70			Weathered bedrock-angular fragments.		
				4.00			End of pit at 4.20 m		

1 2 3 4 5

Remarks: Pit stopped due to bedrock

Stability:

GroundWater Remarks: Water below brick pocket @ 2m- small trickle-no sheen

AGS

ATKINS

Trial Pit Log

Trialpit No
TPG2
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 20/05/2015
Location: Llandarcy		Dimensions (m): m Depth 3.90 m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	0.50	ES		0.80			Made Ground: Dark brown, gravelly, sandy, CLAY. Some black spots. Gr=F-M rounded to sub-ang. Sa=M-C with fragments of wood, sheet plastic and brick.	1	3
▼	1.50	ES		3.90			Natural Ground: Light grey, sandy, CLAY. Sa=F-M, sub-ang to angular rock fragments. Becomes gravellier @ 2m. End of pit at 3.90 m	2	3

1 2 3 4 5

Remarks: Pit stopped due to bedrock

Stability:

GroundWater Remarks: Water trickling in @ 1.8m- no sheen

AGS

ATKINS

Trial Pit Log

Trialpit No
TPJ2
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 22/05/2015
Location: Llandarcy		Dimensions (m): m Depth 2.20 m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
▼									

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Remarks: Pit stopped due to influx of water

Stability:

GroundWater Remarks: water struck at 2.2m-possible source in the corner of faces B/C. Slight sheen to water.

AGS

ATKINS

Trial Pit Log

Trialpit No
TPJ2A
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 22/05/2015
Location: Llandarcy		Dimensions (m): Depth 2.30 m m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
▼									

1
2
3
4
5

Remarks: Pit stopped due to influx of water

Stability:

GroundWater Remarks: Water struck at 2.1m. No obvious inflow, potentially pocket of water in gravel lenses. Slight sheen to water.

AGS

ATKINS

Trial Pit Log

Trialpit No
TPJ1
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 22/05/2015
Location: Llandarcy		Dimensions (m): m Depth 4.70 m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
							Orange, gravelly, sandy, CLAY. Sa=F-C, Gr=F-M.	0	0
				0.30			Dark grey, gravelly, sandy, CLAY. Gr=F-M, Sa=F-M. At 3.8m there is a dark grey gravel present with a sheen on the gravel-strong hydrocarbon smell.	4	3
▼	3.80	ES							
				4.20			Weathered sandy bedrock	0	0
				4.70			End of pit at 4.70 m		

1 2 3 4 5

Remarks: Pit stopped due to bedrock

Stability:

GroundWater Remarks: Water leaking through B-face from bund. On the other side of the bund is a stream: possible source of sheeny water.

AGS

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Trial Pit Log

Trialpit No
TPI3
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 22/05/2015
Location: Llandarcy		Dimensions (m): Depth 0.20 m m	Scale 1:25
Client: St Modwen			Logged

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	Depth	Type	Results						

1
2
3
4
5

Remarks: Pit stopped once concrete found

Stability:
GroundWater
Remarks:

AGS

ATKINS

Trial Pit Log

Trialpit No
TPI1
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 21/05/2015
Location: Llandarcy		Dimensions (m): Depth 0.20 m m	Scale 1:25
Client: St Modwen			Logged

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	Depth	Type	Results						
	0.20	ES							

Remarks: Pit stopped once obstructions found

Stability:
GroundWater
Remarks:

AGS

ATKINS

Trial Pit Log

Trialpit No
TPI2
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 21/05/2015
Location: Llandarcy		Dimensions (m): Depth 0.10 m m	Scale 1:25
Client: St Modwen			Logged

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	Depth	Type	Results						
	0.50	ES							

1
2
3
4
5

Remarks: Pit stopped once obstructions found

Stability:
GroundWater
Remarks:

AGS

ATKINS

Trial Pit Log

Trialpit No
TPH3
Sheet 1 of 2

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 21/05/2015
Location: Llandarcy		Dimensions (m): m Depth 5.50 m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
▼	0.50	ES					Dark brown-grey, gravelly, sandy, CLAY. Gr=F-M, Sa=F-M rounded to sub-ang. Fragments of brick, rock, wires, rootlets & concrete. Becoming gravellier from 1m.	0	0
	1.50	ES							
				2.20			Black-dark grey gravelly, sandy CLAY. Sa= M-C, Gr=F-M.	3	0
	2.50	ES							
				3.00			Dark grey sandy, gravelly, CLAY. Gr=F-C sub-rounded to sub-ang, Sa=M-C with some black staining present.	1	0
	3.50	ES							
				4.50			Black ashy layer gravelly, CLAY. Gr=F-M.		
	5.00	ES							

Continued on next sheet

1 2 3 4 5

Remarks: Pit stopped due to digger extent

Stability:

GroundWater Remarks: Water seepage @ 0.7m on all faces

AGS

ATKINS

Trial Pit Log

Trialpit No
TPH3
Sheet 2 of 2

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 21/05/2015
Location: Llandarcy		Dimensions (m): Depth 5.50 m m	Scale 1:25
Client: St Modwen			Logged KS

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
				5.50			End of pit at 5.50 m	4	0

Remarks: Pit stopped due to digger extent

Stability:

GroundWater Remarks: Water seepage @ 0.7m on all faces

AGS

ATKINS

Trial Pit Log

Trialpit No
TPG3
Sheet 1 of 1

Project Name: Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 20/05/2015
Location: Llandarcy		Dimensions (m): m Depth 2.00 m	Scale 1:25
Client: St Modwen			Logged

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	Depth	Type	Results						

1
2
3
4
5

Remarks: Pit stopped due to obstruction

Stability:
GroundWater
Remarks:

AGS

ATKINS

Trial Pit Log

Trialpit No
TPH1
Sheet 1 of 1

Project Name:	Monitor Phase Sign Off	Project No. 5122307.MP	Co-ords: - Level: mAOS	Date 21/05/2015
Location:	Llandarcy	Dimensions (m): Depth 3.00 m m		Scale 1:25
Client:	St Modwen			Logged KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	Depth	Type	Results						
▼									
▼									
	2.00	ES							
▼									

1
2
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Remarks: Pit stopped due to collapsing sides.

Stability:

GroundWater Remarks: Water stream on B-face @ 1.4m & on D-face @ 1.6m & on C-face @ 2.3m

AGS

Monitor Phase 70

Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	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
				LOD			<0.6	<0.02	<0.9	<1.4	<0.7	<0.14	<0.2	<1	<0.2	<1.9
				>1m Commercial												
TPA1	150523-12	0.50-	20/05/2015	23/05/2015	-	7.28	12.3	0.356	13.7	29.7	29.5	4.99	28.5	<1	22.3	98
TPA1	150523-12	1.50-	20/05/2015	23/05/2015	-	6.83	12.7	0.284	13.2	23.4	22.4	7.17	27.1	<1	16.9	78.4
TPA1	150523-12	2.50-	20/05/2015	23/05/2015	1.91	7.2	10.5	0.25	14.3	19.4	19.1	3.88	25.5	<1	19.7	70.2
TPA1	150523-12	3.50-	20/05/2015	23/05/2015	-	6.49	16.5	0.541	16.8	50.9	45	16.3	33.6	<1	35.1	107
TPA2	150523-12	1.00-	20/05/2015	23/05/2015	3.07	7.84	22	0.954	15.2	45.6	50.9	1.05	25.6	<1	22	132
TPA2	150523-12	2.00-	20/05/2015	23/05/2015	-	7.55	17.5	0.398	18.3	44.7	62.7	1.87	32.6	<1	23.3	146
TPA2	150523-12	3.00-	20/05/2015	23/05/2015	-	7.75	17.2	1.71	16.3	54.5	87.5	3.08	30.7	<1	20.5	221
TPA2	150523-12	4.00-	20/05/2015	23/05/2015	1.76	7.36	12	1.66	14	19.6	18.9	<0.14	27.5	<1	14.7	76.7
TPA3	150523-12	1.00-	20/05/2015	23/05/2015	-	7.8	16.5	0.35	12	39.6	43.4	0.817	20.9	<1	15.7	112
TPA3	150523-12	2.00-	20/05/2015	23/05/2015	-	7.75	18.7	0.271	13	26.6	17.9	<0.14	15.3	<1	19.1	47.4
TPA3	150523-12	3.00-	20/05/2015	23/05/2015	-	8.62	19.3	0.526	13.3	48.3	63.9	0.41	21.8	<1	18.1	185
TPC1	150523-12	0.50-	20/05/2015	23/05/2015	-	6.22	8.02	0.185	12.5	11.5	13.8	<0.14	14.6	<1	13.6	35.2
TPC1	150523-12	1.50-	20/05/2015	23/05/2015	1.12	6.34	11.1	0.136	11.6	14.9	15	<0.14	24.5	<1	12.5	59.1
TPC1	150523-12	2.50-	20/05/2015	23/05/2015	-	6.77	9.78	0.216	12.2	19.9	21.4	<0.14	26.4	<1	13.4	76.7
TPC2	150523-12	0.50-	20/05/2015	23/05/2015	-	8.32	19.1	0.636	13.6	62.2	63.9	0.521	24.2	<1	20.1	165
TPC2	150523-12	1.50-	20/05/2015	23/05/2015	-	7.68	17.8	0.544	14.6	56.1	87.2	0.613	32.3	<1	18.5	308
TPC2	150523-12	2.50-	20/05/2015	23/05/2015	-	7.69	24.5	1.86	21.2	73.6	131	0.846	29.9	<1	24.1	341
TPC2	150523-12	3.50-	20/05/2015	23/05/2015	5.41	7.88	17.6	1.71	14.8	50.4	129	0.43	27.2	<1	17.2	175
TPG1	150523-12	0.50-	20/05/2015	23/05/2015	-	8.52	192	2.35	48.6	183	1070	0.553	34.8	<1	39.6	2960
TPG1	150523-12	1.50-	20/05/2015	23/05/2015	-	7.55	11.3	0.908	13.6	12.1	27	<0.14	14.6	<1	19.5	57.3
TPG1	150523-12	2.50-	20/05/2015	23/05/2015	1.22	7.85	9.36	1.38	13.2	16	22	<0.14	29	<1	13.5	78.5
TPG1	150523-12	3.50-	20/05/2015	23/05/2015	-	6.45	13.6	1.5	12.8	22.8	80.7	<0.14	31.9	<1	13.8	203
TPG2	150523-12	0.50-	20/05/2015	23/05/2015	-	7.91	44.1	0.965	50.9	95.9	266	1.98	35.6	<1	134	594
TPG2	150523-12	1.50-	20/05/2015	23/05/2015	-	7.94	18.2	1.14	12.5	37.7	83.5	0.497	16.5	<1	15.1	171
TPG2	150523-12	2.50-	20/05/2015	23/05/2015	-	6.27	11.8	0.165	14.2	19.7	22	<0.14	29	<1	17.3	72.2
TPG2	150523-12	3.50-	20/05/2015	23/05/2015	-	7.42	12.8	1.45	14.9	27.5	66.4	0.517	33.1	<1	17	126
TPH1	150523-12	2.00-	21/05/2015	23/05/2015	1.07	6.9	9.07	2.52	14	12.7	14.3	<0.14	32.6	<1	15	71.6
TPH3	150523-12	0.50-	21/05/2015	23/05/2015	-	7.05	27.2	0.944	13	213	36.3	<0.14	25.6	<1	17.7	166
TPH3	150523-12	1.50-	21/05/2015	23/05/2015	-	7.19	51.9	3.27	28.4	753	197	<0.14	32.4	<1	18.7	818
TPH3	150523-12	2.50-	21/05/2015	23/05/2015	-	6.75	18.4	0.444	13.1	24.8	24.1	0.313	20.2	<1	20.1	42.5
TPH3	150523-12	3.50-	21/05/2015	23/05/2015	2.59	7.64	9.46	0.895	20.1	43.9	21	<0.14	29.8	<1	16	54.6
TPH3	150523-12	5.00-	21/05/2015	23/05/2015	-	6.75	35.4	0.0957	11.2	35.4	41.5	0.639	10.6	2.64	39.7	22.2
TPI1	150523-12	0.20-	21/05/2015	23/05/2015	-	7.91	16.3	1.1	12.8	59.7	39.6	<0.14	24.4	<1	19.9	115
TPI2	150523-12	1.50-	21/05/2015	23/05/2015	3.09	8.16	12.9	1.48	20.2	35.2	24.8	<0.14	26.7	<1	20	83.4
TPJ1	150523-4	3.80-	22/05/2015	23/05/2015	1.2	6.21	9.88	1.91	16.8	14.3	16.8	<0.14	43	<1	15.5	82.6

Monitor Phase 70

Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	Aliphatics >C10-C12	Aliphatics >C12-C16	Aliphatics >C16-C21	Aliphatics >C21-C35	Aliphatics >C35-C44	Aliphatics >C5-C6	Aliphatics >C6-C8	Aliphatics >C8-C10	Aromatics >EC10-EC12	Aromatics >EC12-EC16	Aromatics >EC16-EC21	Aromatics >EC21-EC35	Aromatics >EC35-EC44	Aromatics >EC40-EC44	Aromatics >EC5-EC7
					µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				LOD	<10	<100	<100	<100	<100	<10	<10	<10	<10	<100	<100	<100	<100	<100	<10
					>1m Commerci														71000
TPA1	150523-12	0.50-	20/05/2015	23/05/2015	24200	136000	117000	135000	26600	113	11500	22600	16100	19800	35400	80700	30600	11500	62.6
TPA1	150523-12	1.50-	20/05/2015	23/05/2015	31600	290000	245000	303000	83700	106	11300	27000	21000	87800	114000	208000	77400	30000	66.1
TPA1	150523-12	2.50-	20/05/2015	23/05/2015	14600	87900	54500	46300	9020	<40	5510	12200	9760	25900	30300	47900	17300	6780	<40
TPA1	150523-12	3.50-	20/05/2015	23/05/2015	72200	952000	915000	952000	246000	674	48000	77400	48100	266000	374000	615000	218000	84200	221
TPA2	150523-12	1.00-	20/05/2015	23/05/2015	14400	108000	126000	175000	59000	256	10100	13000	9600	20500	54700	132000	53400	21100	54.3
TPA2	150523-12	2.00-	20/05/2015	23/05/2015	7480	64300	83500	117000	30000	504	5420	6140	4980	15600	41200	107000	40400	15200	41.8
TPA2	150523-12	3.00-	20/05/2015	23/05/2015	1160	55500	72000	105000	27400	<40	132	394	774	9480	32600	91400	40900	16100	<40
TPA2	150523-12	4.00-	20/05/2015	23/05/2015	7440	38200	21800	57000	14100	51.8	698	1870	4960	12700	23000	67200	22900	8350	<40
TPA3	150523-12	1.00-	20/05/2015	23/05/2015	2550	72700	102000	204000	78100	84.7	2460	4070	1700	14000	47600	152000	67400	26300	11.6
TPA3	150523-12	2.00-	20/05/2015	23/05/2015	814	322	2720	15200	8950	97.1	452	310	543	35700	197	9400	6110	2570	<40
TPA3	150523-12	3.00-	20/05/2015	23/05/2015	17000	69400	102000	123000	38600	242	9300	21800	11400	3600	23700	70200	30300	12200	<40
TPC1	150523-12	0.50-	20/05/2015	23/05/2015	14700	38600	5570	<100	<100	3190	64700	39900	9770	2390	582	<100	<100	<100	258
TPC1	150523-12	1.50-	20/05/2015	23/05/2015	7650	7530	1250	<100	<100	433	22600	20600	5100	2900	1030	1770	955	497	79.5
TPC1	150523-12	2.50-	20/05/2015	23/05/2015	552	2190	<100	<100	<100	87.4	1360	560	368	704	564	2460	936	<100	<40
TPC2	150523-12	0.50-	20/05/2015	23/05/2015	5720	337000	534000	914000	268000	<40	473	3400	3820	61100	226000	651000	295000	118000	<40
TPC2	150523-12	1.50-	20/05/2015	23/05/2015	9130	33500	69600	118000	22000	164	10500	13900	6090	1690	11900	60000	27300	10900	48.3
TPC2	150523-12	2.50-	20/05/2015	23/05/2015	11500	59800	65500	123000	22900	144	11200	14100	7700	12700	28600	99600	51500	20800	70.1
TPC2	150523-12	3.50-	20/05/2015	23/05/2015	1980	34300	38600	72100	15100	<40	293	1280	1320	6660	17800	60100	28100	11400	<40
TPG1	150523-12	0.50-	20/05/2015	23/05/2015	557	81600	272000	1190000	731000	<10	112	279	372	17100	104000	857000	737000	304000	<10
TPG1	150523-12	1.50-	20/05/2015	23/05/2015	32800	547000	243000	84500	22500	1090	26800	32600	21800	133000	65500	42600	16300	6550	118
TPG1	150523-12	2.50-	20/05/2015	23/05/2015	4680	20900	15500	<100	<100	<40	930	2500	3120	7550	6390	4370	1090	<100	<40
TPG1	150523-12	3.50-	20/05/2015	23/05/2015	19200	102000	61100	14100	1850	287	19600	22300	12800	39300	21800	18200	8700	3520	89.6
TPG2	150523-12	0.50-	20/05/2015	23/05/2015	3230	82500	165000	232000	78900	47.2	542	2230	2150	9250	53000	189000	97400	39300	<40
TPG2	150523-12	1.50-	20/05/2015	23/05/2015	6000	<100	332000	311000	90900	100	2680	4610	4000	284000	196000	234000	80300	31500	<40
TPG2	150523-12	2.50-	20/05/2015	23/05/2015	66000	396000	145000	78300	16400	114	2320	17200	44000	250000	119000	89500	23500	8830	<40
TPG2	150523-12	3.50-	20/05/2015	23/05/2015	77100	225000	91500	46000	7410	748	8090	31300	51400	143000	83300	75500	22500	8880	<40
TPH1	150523-12	2.00-	21/05/2015	23/05/2015	520	12500	10500	9100	<100	<40	453	202	347	<100	<100	<100	<100	<100	<40
TPH3	150523-12	0.50-	21/05/2015	23/05/2015	559	67100	97600	30200	<100	<40	70.1	198	373	4870	28800	21500	2990	<100	<40
TPH3	150523-12	1.50-	21/05/2015	23/05/2015	73.5	5440	8790	4700	<100	<40	<40	<40	48.6	<100	315	806	<100	<100	<40
TPH3	150523-12	2.50-	21/05/2015	23/05/2015	<40	<100	<100	<100	<100	<40	<40	<40	<40	<100	883	3980	<100	<100	<40
TPH3	150523-12	3.50-	21/05/2015	23/05/2015	58.3	<100	741	496	<100	<40	120	111	<40	<100	<100	<100	<100	<100	<40
TPH3	150523-12	5.00-	21/05/2015	23/05/2015	<40	201	903	<100	<100	<40	141	92.7	<40	844	3420	6780	756	<100	<40
TPI1	150523-12	0.20-	21/05/2015	23/05/2015	236	27500	95000	255000	80100	<40	<40	65	157	3170	35100	196000	97100	38100	<40
TPI2	150523-12	1.50-	21/05/2015	23/05/2015	2550	86300	101000	159000	38900	87.6	1160	1960	1700	15800	42600	86100	32800	13100	<40
TPJ1	150523-4	3.80-	22/05/2015	23/05/2015	323000	306000	58800	42900	6800	1870	85500	232000	215000	23200	23100	27600	7140	2530	340

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Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	Aromatics >EC7-EC8	Aromatics >EC8-EC10	Benzene	Ethylbenzene	GRO Surrogate % recovery**	GRO TOT (Moisture Corrected)	m,p-Xylene	Methyl tertiary butyl ether (MTBE)	o-Xylene	sum of detected BTEX by GC	sum of detected mpo xylene by GC	Toluene	Total Aliphatics & Aromatics >C5-C44	Total Aliphatics >C12-C44	Total Aromatics >EC12-EC44
					µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				LOD	<10	<10	<10	<3		<44	<6	<5	<3	<24	<9	<2	<100	<100	<100
				>1m Commerci	617000	547000	5000									389000			
TPA1	150523-12	0.50-	20/05/2015	23/05/2015	<40	15100	62.6	<12	78	89700	<24	<24	<12	62.6	<9	<8	671000	415000	166000
TPA1	150523-12	1.50-	20/05/2015	23/05/2015	<40	18000	66.1	<12	83	109000	<24	<24	<12	66.1	<9	<8	1520000	922000	487000
TPA1	150523-12	2.50-	20/05/2015	23/05/2015	<40	8130	<40	<12	75	50300	<24	<24	<12	<24	<9	<8	369000	198000	121000
TPA1	150523-12	3.50-	20/05/2015	23/05/2015	<40	51600	221	<12	99	298000	<24	<24	<12	221	<9	<8	4840000	3070000	1470000
TPA2	150523-12	1.00-	20/05/2015	23/05/2015	<40	8690	54.3	<12	68	56200	<24	<24	<12	54.3	<9	<8	785000	468000	261000
TPA2	150523-12	2.00-	20/05/2015	23/05/2015	<40	4160	<40	<12	71	28700	66.7	66.7	<12	66.7	66.7	<8	528000	295000	204000
TPA2	150523-12	3.00-	20/05/2015	23/05/2015	<40	262	<40	<12	76	2750	<24	<24	<12	<24	<9	<8	437000	259000	174000
TPA2	150523-12	4.00-	20/05/2015	23/05/2015	<40	1250	<40	<12	78	16300	<24	<24	<12	<24	<9	<8	273000	131000	126000
TPA3	150523-12	1.00-	20/05/2015	23/05/2015	<10	2710	11.6	<3	79	13600	<6	<6	<3	<24	<9	<2	752000	457000	281000
TPA3	150523-12	2.00-	20/05/2015	23/05/2015	<40	218	<40	<12	80	2430	<24	<24	<12	<24	<9	<8	81100	27200	51400
TPA3	150523-12	3.00-	20/05/2015	23/05/2015	<40	14500	<40	<12	66	74200	<24	<24	<12	<24	<9	<8	535000	333000	128000
TPC1	150523-12	0.50-	20/05/2015	23/05/2015	<40	26600	258	<12	116	159000	<24	<24	<12	258	<9	<8	206000	44100	2970
TPC1	150523-12	1.50-	20/05/2015	23/05/2015	<40	13700	79.5	<12	97	70200	<24	<24	<12	79.5	<9	<8	85600	8770	6660
TPC1	150523-12	2.50-	20/05/2015	23/05/2015	<40	428	<40	14.6	85	3370	40.3	40.3	<12	54.9	40.3	<8	10200	2190	4670
TPC2	150523-12	0.50-	20/05/2015	23/05/2015	<40	2270	<40	<12	63	15700	<24	<24	<12	<24	<9	<8	3300000	2050000	1230000
TPC2	150523-12	1.50-	20/05/2015	23/05/2015	<40	9240	48.3	<12	60	49000	<24	<24	<12	48.3	<9	<8	393000	243000	101000
TPC2	150523-12	2.50-	20/05/2015	23/05/2015	<40	9420	70.1	<12	55	54200	<24	<24	<12	70.1	<9	<8	-	272000	192000
TPC2	150523-12	3.50-	20/05/2015	23/05/2015	<40	851	<40	<12	70	5760	<24	<24	<12	<24	<9	<8	278000	160000	113000
TPG1	150523-12	0.50-	20/05/2015	23/05/2015	<10	193	<10	<3	67	1520	6.84	6.84	<3	<24	<9	<2	4000000	2280000	1720000
TPG1	150523-12	1.50-	20/05/2015	23/05/2015	<40	21800	118	<12	76	137000	<24	<24	<12	118	<9	<8	1290000	897000	258000
TPG1	150523-12	2.50-	20/05/2015	23/05/2015	<40	1710	<40	<12	84	13000	40.3	40.3	<12	40.3	40.3	<8	68800	36400	19400
TPG1	150523-12	3.50-	20/05/2015	23/05/2015	<40	14900	89.6	<12	88	89200	<24	<24	<12	89.6	<9	<8	356000	179000	88000
TPG2	150523-12	0.50-	20/05/2015	23/05/2015	<40	1490	<40	<12	69	9700	<24	<24	<12	<24	<9	<8	917000	558000	349000
TPG2	150523-12	1.50-	20/05/2015	23/05/2015	<40	3070	<40	<12	68	20500	<24	<24	<12	<24	<9	<8	1550000	735000	795000
TPG2	150523-12	2.50-	20/05/2015	23/05/2015	<40	11500	<40	<12	69	141000	<24	<24	<12	<24	<9	<8	1260000	636000	483000
TPG2	150523-12	3.50-	20/05/2015	23/05/2015	<40	20800	<40	<12	67	189000	<24	<24	<12	<24	<9	<8	884000	370000	324000
TPH1	150523-12	2.00-	21/05/2015	23/05/2015	<40	144	<40	<12	94	1930	<24	<24	<12	<24	<9	<8	33800	32100	<100
TPH3	150523-12	0.50-	21/05/2015	23/05/2015	<40	170	<40	<12	71	1400	<24	<24	21.5	<24	21.5	<8	254000	195000	58100
TPH3	150523-12	1.50-	21/05/2015	23/05/2015	<40	<40	<40	<12	87	296	<24	<24	<12	<24	<9	<8	20300	18900	1120
TPH3	150523-12	2.50-	21/05/2015	23/05/2015	<40	<40	<40	<12	35	<176	<24	<24	<12	<24	<9	<8	4870	<100	4870
TPH3	150523-12	3.50-	21/05/2015	23/05/2015	<40	85.8	<40	<12	57	442	<24	<24	<12	<24	<9	<8	1680	1240	<100
TPH3	150523-12	5.00-	21/05/2015	23/05/2015	<40	62.2	<40	<12	15	371	<24	<24	<12	<24	<9	<8	13300	1100	11800
TPI1	150523-12	0.20-	21/05/2015	23/05/2015	<40	45.6	<40	<12	71	542	<24	<24	<12	<24	<9	<8	789000	457000	331000
TPI2	150523-12	1.50-	21/05/2015	23/05/2015	<40	1440	<40	133	112	9320	<24	<24	<12	133	<9	<8	571000	385000	177000
TPJ1	150523-4	3.80-	22/05/2015	23/05/2015	<200	155000	340	<60	162	1020000	<120	<120	<60	340	<9	<40	1510000	415000	81000

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Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	Naphthalene-d8 % recovery**	Acenaphthene-d10 % recovery**	Phenanthrene-d10 % recovery**	Chrysene-d12 % recovery**	Perylene-d12 % recovery**	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene
					%	%	%	%	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				LOD						<9	<12	<8	<10	<15	<16	<17
				>1m Commerci												
TPA1	150523-12	0.50-	20/05/2015	23/05/2015	106	106	105	106	117	211	<12	101	129	212	58.4	223
TPA1	150523-12	1.50-	20/05/2015	23/05/2015	94.1	91.2	91.3	100	101	270	<12	176	262	344	118	210
TPA1	150523-12	2.50-	20/05/2015	23/05/2015	90	88.1	88.1	94.8	93.7	69.8	<12	70.3	117	105	25.1	26.7
TPA1	150523-12	3.50-	20/05/2015	23/05/2015	86	83.6	82.3	92.2	94.8	920	<12	444	605	1020	306	795
TPA2	150523-12	1.00-	20/05/2015	23/05/2015	90.8	89.5	88.7	92	90	80.5	<12	45.1	87.2	212	68.6	185
TPA2	150523-12	2.00-	20/05/2015	23/05/2015	106	106	105	110	116	111	22.5	57.1	98.1	475	94.6	526
TPA2	150523-12	3.00-	20/05/2015	23/05/2015	98.5	99	98.3	101	110	68.1	<12	24.1	40.9	225	57.3	309
TPA2	150523-12	4.00-	20/05/2015	23/05/2015	97	99.4	98.1	98.5	106	216	<12	18.9	16.9	108	<16	21.6
TPA3	150523-12	1.00-	20/05/2015	23/05/2015	92.3	90.4	91.4	96.3	97.5	106	24	46.2	119	283	91.7	284
TPA3	150523-12	2.00-	20/05/2015	23/05/2015	92.6	89.7	90.3	99.2	105	11.2	<12	<8	<10	42.2	<16	29.1
TPA3	150523-12	3.00-	20/05/2015	23/05/2015	95	95.4	98.1	108	118	134	29.2	53.8	105	348	92.4	295
TPC1	150523-12	0.50-	20/05/2015	23/05/2015	91.8	90.5	92.2	90.1	84	248	<12	20.4	42.4	51.6	<16	<17
TPC1	150523-12	1.50-	20/05/2015	23/05/2015	108	105	106	104	102	277	<12	<8	16.8	85	<16	<17
TPC1	150523-12	2.50-	20/05/2015	23/05/2015	96.6	93.2	94.4	90	84.8	35.4	<12	<8	<10	53.2	<16	<17
TPC2	150523-12	0.50-	20/05/2015	23/05/2015	103	105	106	105	105	174	47.9	138	331	604	419	417
TPC2	150523-12	1.50-	20/05/2015	23/05/2015	114	112	114	119	125	194	40.5	48.9	76.9	480	95.3	712
TPC2	150523-12	2.50-	20/05/2015	23/05/2015	105	105	106	111	115	183	44.6	64.1	118	493	110	718
TPC2	150523-12	3.50-	20/05/2015	23/05/2015	98.4	97.1	96.7	97.1	103	40	<12	17.8	39.6	302	44.9	335
TPG1	150523-12	0.50-	20/05/2015	23/05/2015	96.5	95	94.3	96.6	101	200	34.5	139	229	1430	284	1960
TPG1	150523-12	1.50-	20/05/2015	23/05/2015	91.4	91.3	92.2	98.6	102	503	<12	222	451	378	146	483
TPG1	150523-12	2.50-	20/05/2015	23/05/2015	94	91	89.5	95.6	95.7	52.6	<12	<8	27.3	65.2	<16	<17
TPG1	150523-12	3.50-	20/05/2015	23/05/2015	91.8	89.5	89.6	94.7	94.7	68.3	<12	20.6	57.4	72.9	<16	31.2
TPG2	150523-12	0.50-	20/05/2015	23/05/2015	90.1	87.5	86.6	90.7	89.7	121	54.2	68.4	115	655	221	981
TPG2	150523-12	1.50-	20/05/2015	23/05/2015	89.5	87.9	87	95.6	98.1	939	<12	1280	1700	1510	392	140
TPG2	150523-12	2.50-	20/05/2015	23/05/2015	93	93.8	92.2	101	102	974	<12	1110	1390	1060	329	168
TPG2	150523-12	3.50-	20/05/2015	23/05/2015	98	98.2	97.9	98.9	103	529	34	436	672	616	126	71.7
TPH1	150523-12	2.00-	21/05/2015	23/05/2015	92.6	90.7	91.7	93.7	89.3	56.7	<12	12.6	22.3	67.8	<16	59.8
TPH3	150523-12	0.50-	21/05/2015	23/05/2015	94.2	92.5	93.3	104	101	29.2	<12	<8	31	78.9	38.8	77.3
TPH3	150523-12	1.50-	21/05/2015	23/05/2015	97.6	92.9	93.5	97.3	99.9	41	16.3	88.9	131	231	76.6	360
TPH3	150523-12	2.50-	21/05/2015	23/05/2015	92.8	90.1	89.5	88.9	82.2	<9	<12	<8	<10	439	<16	76.9
TPH3	150523-12	3.50-	21/05/2015	23/05/2015	94.4	90.7	90.9	91.9	91.6	<9	<12	<8	<10	168	<16	33.2
TPH3	150523-12	5.00-	21/05/2015	23/05/2015	101	97.7	96.9	92.3	88.5	<9	<12	<8	<10	341	<16	92.4
TPI1	150523-12	0.20-	21/05/2015	23/05/2015	96.1	95.2	95.9	101	104	40.1	<12	13.2	20.8	263	<16	344
TPI2	150523-12	1.50-	21/05/2015	23/05/2015	97.5	96.7	99.4	110	109	277	31.7	4900	1410	424	433	1180
TPJ1	150523-4	3.80-	22/05/2015	23/05/2015	91.6	88.5	87.4	92	91.3	306	<12	91.7	242	907	116	108

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Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
					µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				LOD	<15	<14	<10	<15	<14	<15	<18	<23	<24
				>1m Commerci									
TPA1	150523-12	0.50-	20/05/2015	23/05/2015	241	142	159	214	75.3	156	77.8	32.4	98.7
TPA1	150523-12	1.50-	20/05/2015	23/05/2015	234	123	157	169	44.5	93.4	46.9	<23	62.4
TPA1	150523-12	2.50-	20/05/2015	23/05/2015	29.9	<14	26.3	33.5	<14	<15	<18	<23	<24
TPA1	150523-12	3.50-	20/05/2015	23/05/2015	931	438	521	585	163	414	197	84	274
TPA2	150523-12	1.00-	20/05/2015	23/05/2015	265	86.9	103	143	55.4	88.3	46.1	<23	66.3
TPA2	150523-12	2.00-	20/05/2015	23/05/2015	615	306	331	407	180	340	187	64.2	252
TPA2	150523-12	3.00-	20/05/2015	23/05/2015	344	176	207	258	91.9	182	107	35.4	142
TPA2	150523-12	4.00-	20/05/2015	23/05/2015	29.5	<14	21.5	42	<14	<15	<18	<23	<24
TPA3	150523-12	1.00-	20/05/2015	23/05/2015	372	129	160	203	69.6	145	88.7	32.9	121
TPA3	150523-12	2.00-	20/05/2015	23/05/2015	124	23.2	28.4	76.6	<14	51	27.9	<23	59.9
TPA3	150523-12	3.00-	20/05/2015	23/05/2015	400	244	212	346	131	287	154	57.4	231
TPC1	150523-12	0.50-	20/05/2015	23/05/2015	<15	<14	<10	35.8	<14	<15	<18	<23	<24
TPC1	150523-12	1.50-	20/05/2015	23/05/2015	<15	<14	13.5	61.8	<14	<15	<18	<23	<24
TPC1	150523-12	2.50-	20/05/2015	23/05/2015	<15	<14	19	45.5	<14	<15	<18	<23	<24
TPC2	150523-12	0.50-	20/05/2015	23/05/2015	516	305	276	399	154	374	216	93.2	300
TPC2	150523-12	1.50-	20/05/2015	23/05/2015	657	474	539	811	317	606	333	122	434
TPC2	150523-12	2.50-	20/05/2015	23/05/2015	675	606	569	901	296	640	304	108	358
TPC2	150523-12	3.50-	20/05/2015	23/05/2015	288	159	217	274	91.8	167	105	35.9	139
TPG1	150523-12	0.50-	20/05/2015	23/05/2015	1800	1100	1090	1370	509	1150	621	213	829
TPG1	150523-12	1.50-	20/05/2015	23/05/2015	446	252	266	311	107	216	122	45.1	151
TPG1	150523-12	2.50-	20/05/2015	23/05/2015	17.3	<14	36.4	66.2	<14	<15	<18	<23	<24
TPG1	150523-12	3.50-	20/05/2015	23/05/2015	30.9	29.2	35	52.8	<14	21.2	<18	<23	<24
TPG2	150523-12	0.50-	20/05/2015	23/05/2015	976	707	706	854	311	705	370	138	490
TPG2	150523-12	1.50-	20/05/2015	23/05/2015	258	96.2	116	108	38.1	76.8	41	<23	54.8
TPG2	150523-12	2.50-	20/05/2015	23/05/2015	223	124	147	196	58.9	116	61.7	<23	81
TPG2	150523-12	3.50-	20/05/2015	23/05/2015	94.6	36.2	56.6	71.2	27.9	39.2	27.6	<23	45.7
TPH1	150523-12	2.00-	21/05/2015	23/05/2015	52.9	22	38.7	61.1	<14	18.4	<18	<23	<24
TPH3	150523-12	0.50-	21/05/2015	23/05/2015	77.5	34.1	60.1	99.7	25.7	40.9	34.8	<23	51.2
TPH3	150523-12	1.50-	21/05/2015	23/05/2015	273	109	92.1	97.6	41.1	95.4	71.5	<23	82.8
TPH3	150523-12	2.50-	21/05/2015	23/05/2015	126	<14	231	312	47.7	<15	23.4	36.5	78.8
TPH3	150523-12	3.50-	21/05/2015	23/05/2015	47.4	<14	38.8	125	<14	<15	<18	<23	43.2
TPH3	150523-12	5.00-	21/05/2015	23/05/2015	206	<14	241	193	<14	<15	<18	31.3	70.4
TPI1	150523-12	0.20-	21/05/2015	23/05/2015	414	222	348	586	215	300	186	76.7	254
TPI2	150523-12	1.50-	21/05/2015	23/05/2015	912	247	261	179	62.4	95.5	40.2	<23	55.7
TPJ1	150523-4	3.80-	22/05/2015	23/05/2015	235	107	188	81.3	22.3	52.5	25.2	<23	31.6

Monitor Phase 70

Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	PAH, Total Detected USEPA 16
					µg/kg
				LOD	<118
				>1m Commerci	
TPA1	150523-12	0.50-	20/05/2015	23/05/2015	2130
TPA1	150523-12	1.50-	20/05/2015	23/05/2015	2310
TPA1	150523-12	2.50-	20/05/2015	23/05/2015	503
TPA1	150523-12	3.50-	20/05/2015	23/05/2015	7690
TPA2	150523-12	1.00-	20/05/2015	23/05/2015	1530
TPA2	150523-12	2.00-	20/05/2015	23/05/2015	4070
TPA2	150523-12	3.00-	20/05/2015	23/05/2015	2270
TPA2	150523-12	4.00-	20/05/2015	23/05/2015	475
TPA3	150523-12	1.00-	20/05/2015	23/05/2015	2280
TPA3	150523-12	2.00-	20/05/2015	23/05/2015	473
TPA3	150523-12	3.00-	20/05/2015	23/05/2015	3120
TPC1	150523-12	0.50-	20/05/2015	23/05/2015	398
TPC1	150523-12	1.50-	20/05/2015	23/05/2015	454
TPC1	150523-12	2.50-	20/05/2015	23/05/2015	153
TPC2	150523-12	0.50-	20/05/2015	23/05/2015	4770
TPC2	150523-12	1.50-	20/05/2015	23/05/2015	5940
TPC2	150523-12	2.50-	20/05/2015	23/05/2015	6190
TPC2	150523-12	3.50-	20/05/2015	23/05/2015	2260
TPG1	150523-12	0.50-	20/05/2015	23/05/2015	13000
TPG1	150523-12	1.50-	20/05/2015	23/05/2015	4100
TPG1	150523-12	2.50-	20/05/2015	23/05/2015	265
TPG1	150523-12	3.50-	20/05/2015	23/05/2015	420
TPG2	150523-12	0.50-	20/05/2015	23/05/2015	7470
TPG2	150523-12	1.50-	20/05/2015	23/05/2015	6750
TPG2	150523-12	2.50-	20/05/2015	23/05/2015	6040
TPG2	150523-12	3.50-	20/05/2015	23/05/2015	2880
TPH1	150523-12	2.00-	21/05/2015	23/05/2015	412
TPH3	150523-12	0.50-	21/05/2015	23/05/2015	679
TPH3	150523-12	1.50-	21/05/2015	23/05/2015	1810
TPH3	150523-12	2.50-	21/05/2015	23/05/2015	1370
TPH3	150523-12	3.50-	21/05/2015	23/05/2015	455
TPH3	150523-12	5.00-	21/05/2015	23/05/2015	1170
TPI1	150523-12	0.20-	21/05/2015	23/05/2015	3280
TPI2	150523-12	1.50-	21/05/2015	23/05/2015	10500
TPJ1	150523-4	3.80-	22/05/2015	23/05/2015	2510

Monitor Phase 70

Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - Gravimetric - %	Date of Analysis	Analysed By	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Additional Asbestos Components (Using TM048)	Additional Asbestos Components (Using TM048)	Comments	Analysts Comments	Analysts Comments	Chrysotile (White) Asbestos	Amosite (Brown) Asbestos
					%	%	-	-	%	%	-	-	-	-	-	-	-
				LOD													
				>1m Commerci													
TPA1	150523-12	0.50-	20/05/2015	23/05/2015	-	<0.001	1/6/15	Kevin Gill	-	<0.001	-	None	bundles in soil	-	N/C	Detected	Detected
TPA1	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPA1	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPA1	150523-12	3.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPA2	150523-12	1.00-	20/05/2015	23/05/2015	-	-	1/6/15	Postlewhite	-	-	-	-	0	-	-	Not Detected	Not Detected
TPA2	150523-12	2.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPA2	150523-12	3.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPA2	150523-12	4.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPA3	150523-12	1.00-	20/05/2015	23/05/2015	<0.001	-	1/6/15	Kevin Gill	0.0126	-	Crocidolite	-	bundles in soil	clumps in soil	-	Detected	Detected
TPA3	150523-12	2.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPA3	150523-12	3.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPC1	150523-12	0.50-	20/05/2015	23/05/2015	-	-	1/6/15	Kevin Gill	-	-	-	-	0	-	-	Not Detected	Not Detected
TPC1	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPC1	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPC2	150523-12	0.50-	20/05/2015	23/05/2015	-	-	1/6/15	Kevin Gill	-	-	-	-	0	-	-	Not Detected	Not Detected
TPC2	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPC2	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPC2	150523-12	3.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPG1	150523-12	0.50-	20/05/2015	23/05/2015	<0.001	-	1/6/15	Kevin Gill	0.0026	-	None	-	ng ACM debris	N/C	-	Detected	Detected
TPG1	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPG1	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPG1	150523-12	3.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPG2	150523-12	0.50-	20/05/2015	23/05/2015	<0.001	-	1/6/15	Postlewhite	0.0877	-	Crocidolite	-	bundles in soil	bundles in soil	-	Detected	Detected
TPG2	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPG2	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPG2	150523-12	3.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH1	150523-12	2.00-	21/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH3	150523-12	0.50-	21/05/2015	23/05/2015	-	-	1/6/15	Kevin Gill	-	-	-	-	0	-	-	Not Detected	Not Detected
TPH3	150523-12	1.50-	21/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH3	150523-12	2.50-	21/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH3	150523-12	3.50-	21/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH3	150523-12	5.00-	21/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPI1	150523-12	0.20-	21/05/2015	23/05/2015	-	-	1/6/15	Kevin Gill	-	-	-	-	0	-	-	Not Detected	Not Detected
TPI2	150523-12	1.50-	21/05/2015	23/05/2015	-	-	-	-	-	-	-	-	-	-	-	-	-
TPJ1	150523-4	3.80-	22/05/2015	23/05/2015													

Monitor Phase 70

Trial Pit	SDG ID.	Sample Depth	Date Sampled	Received On	Asbestos Quantification - Total - %	Asbestos Quantification - Total - %	Crocidolite (Blue) Asbestos	Fibrous Anthophyllite	Fibrous Tremolite	Fibrous Actinolite	Non-Asbestos Fibre
					%	%	-	-	-	-	-
				LOD							
				>1m Commerci							
TPA1	150523-12	0.50-	20/05/2015	23/05/2015	-	<0.001	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPA1	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPA1	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPA1	150523-12	3.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPA2	150523-12	1.00-	20/05/2015	23/05/2015	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPA2	150523-12	2.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPA2	150523-12	3.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPA2	150523-12	4.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPA3	150523-12	1.00-	20/05/2015	23/05/2015	0.0126	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPA3	150523-12	2.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPA3	150523-12	3.00-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPC1	150523-12	0.50-	20/05/2015	23/05/2015	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPC1	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPC1	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPC2	150523-12	0.50-	20/05/2015	23/05/2015	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPC2	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPC2	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPC2	150523-12	3.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPG1	150523-12	0.50-	20/05/2015	23/05/2015	0.0026	-	Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPG1	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPG1	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPG1	150523-12	3.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPG2	150523-12	0.50-	20/05/2015	23/05/2015	0.0877	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPG2	150523-12	1.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPG2	150523-12	2.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPG2	150523-12	3.50-	20/05/2015	23/05/2015	-	-	-	-	-	-	-
TPH1	150523-12	2.00-	21/05/2015	23/05/2015	-	-	-	-	-	-	-
TPH3	150523-12	0.50-	21/05/2015	23/05/2015	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPH3	150523-12	1.50-	21/05/2015	23/05/2015	-	-	-	-	-	-	-
TPH3	150523-12	2.50-	21/05/2015	23/05/2015	-	-	-	-	-	-	-
TPH3	150523-12	3.50-	21/05/2015	23/05/2015	-	-	-	-	-	-	-
TPH3	150523-12	5.00-	21/05/2015	23/05/2015	-	-	-	-	-	-	-
TPI1	150523-12	0.20-	21/05/2015	23/05/2015	-	-	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
TPI2	150523-12	1.50-	21/05/2015	23/05/2015	-	-	-	-	-	-	-
TPJ1	150523-4	3.80-	22/05/2015	23/05/2015							

ALcontrol Laboratories

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Llandarcy
SA10 6HJ

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

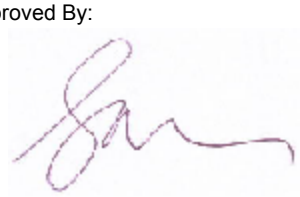
Date:	04 August 2015
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	150523-12
Your Reference:	Phs 70 Trial Pits
Location:	Coed Darcy
Report No:	323991

We received 34 samples on Saturday May 23, 2015 and 34 of these samples were scheduled for analysis which was completed on Tuesday August 04, 2015. 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

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11417333	TPA1		0.50	20/05/2015
11417337	TPA1		1.50	20/05/2015
11417342	TPA1		2.50	20/05/2015
11417346	TPA1		3.50	20/05/2015
11417219	TPA2		1.00	20/05/2015
11417272	TPA2		2.00	20/05/2015
11417325	TPA2		3.00	20/05/2015
11417351	TPA2		4.00	20/05/2015
11417356	TPA3		1.00	20/05/2015
11417361	TPA3		2.00	20/05/2015
11417366	TPA3		3.00	20/05/2015
11417370	TPC1		0.50	20/05/2015
11417374	TPC1		1.50	20/05/2015
11417225	TPC1		2.50	20/05/2015
11417230	TPC2		0.50	20/05/2015
11417234	TPC2		1.50	20/05/2015
11417239	TPC2		2.50	20/05/2015
11417244	TPC2		3.50	20/05/2015
11417248	TPG1		0.50	20/05/2015
11417252	TPG1		1.50	20/05/2015
11417257	TPG1		2.50	20/05/2015
11417261	TPG1		3.50	20/05/2015
11417267	TPG2		0.50	20/05/2015
11417277	TPG2		1.50	20/05/2015
11417281	TPG2		2.50	20/05/2015
11417286	TPG2		3.50	20/05/2015
11417291	TPH1		2.00	21/05/2015
11417296	TPH3		0.50	21/05/2015
11417301	TPH3		1.50	21/05/2015
11417306	TPH3		2.50	21/05/2015
11417312	TPH3		3.50	21/05/2015
11417316	TPH3		5.00	21/05/2015
11417321	TPI1		0.20	21/05/2015
11417329	TPI2		1.50	21/05/2015

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

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

- X — Test
- N — No Determination Possible

Lab Sample No(s)					11417333			11417337			11417342			11417346			11417219			11417272			11417325			11417351			11417356			11417361			11417366			11417370			11417374	11417225
Customer Sample Reference					TPA1			TPA1			TPA1			TPA1			TPA2			TPA2			TPA2			TPA2			TPA3			TPA3			TPA3			TPC1			TPC1	TPC1
AGS Reference																																										
Depth (m)					0.50			1.50			2.50			3.50			1.00			2.00			3.00			4.00			1.00			2.00			3.00			0.50			1.50	2.50
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 9		X												X												X									X					
Asbestos Quant. Detail Gravimetric	All	NDPs: 0 Tests: 3																										X														
Asbestos Quantification - Full	All	NDPs: 0 Tests: 1		X																																						
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 34			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 34		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 9							X						X									X															X			
TPH CWG GC (S)	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X

16:20:32 04/08/2015

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

- X — **Test**
- N — **No Determination Possible**

Lab Sample No(s)	11417225	11417230	11417234	11417239	11417244	11417248	11417252	11417257	11417261	11417267	11417277	11417281	11417286	11417291
Customer Sample Reference	TPC1	TPC2	TPC2	TPC2	TPC2	TPG1	TPG1	TPG1	TPG1	TPG2	TPG2	TPG2	TPG2	TPH1
AGS Reference														
Depth (m)	2.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	2.00

Container			400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 9				X												X												X												
Asbestos Quant. Detail Gravimetric	All	NDPs: 0 Tests: 3																X												X												
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34			X			X			X			X			X			X			X			X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34			X			X			X			X			X			X			X			X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 34		X			X			X			X			X			X			X			X			X			X			X			X			X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 34			X			X			X			X			X			X			X			X			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 34			X			X			X			X			X			X			X			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 34	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Sample description	All	NDPs: 0 Tests: 34			X			X			X			X			X			X			X			X			X			X			X			X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 9												X								X																		X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 34			X			X			X			X			X			X			X			X			X			X			X			X			X	

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

Lab Sample No(s)	11417291	11417296	11417301	11417306	11417312	11417316	11417321	11417329
Customer Sample Reference	TPH1	TPH3	TPH3	TPH3	TPH3	TPH3	TPI1	TPI2
AGS Reference								
Depth (m)	2.00	0.50	1.50	2.50	3.50	5.00	0.20	1.50
Container	60g VOC (ALE215)	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)	250g Amber Jar (AL 400g Tub (ALE214) 60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 9		X			X		
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X
Metals in solid samples by OES	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X
PAH by GCMS	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 0 Tests: 9			X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 34	X	X	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**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
11417333	TPA1	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Brick
11417337	TPA1	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11417342	TPA1	2.50	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
11417346	TPA1	3.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Stones
11417219	TPA2	1.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11417272	TPA2	2.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11417325	TPA2	3.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11417351	TPA2	4.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Vegetation
11417356	TPA3	1.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11417361	TPA3	2.00	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	Vegetation
11417366	TPA3	3.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11417225	TPC1	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11417370	TPC1	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11417374	TPC1	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11417230	TPC2	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11417234	TPC2	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11417239	TPC2	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11417244	TPC2	3.50	Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Vegetation	Oil/Petroleum
11417248	TPG1	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
11417252	TPG1	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Vegetation
11417257	TPG1	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11417261	TPG1	3.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	Oil/Petroleum
11417267	TPG2	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11417277	TPG2	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11417281	TPG2	2.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	Oil/Petroleum
11417286	TPG2	3.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Vegetation	None
11417291	TPH1	2.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11417296	TPH3	0.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Brick	Stones
11417301	TPH3	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11417306	TPH3	2.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11417312	TPH3	3.50	Dark Brown	Clay Loam	0.063 - 0.1 mm	Stones	Vegetation
11417316	TPH3	5.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Vegetation
11417321	TPI1	0.20	Dark Brown	Sandy Loam	0.1 - 2 mm	Brick	Stones
11417329	TPI2	1.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Oil/Petroleum	Stones

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPA1	TPA1	TPA1	TPA1	TPA2	TPA2
			Depth (m)	0.50	1.50	2.50	3.50	1.00	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417333	11417337	11417342	11417346	11417219	11417272
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		14	14	12	16	15	12
Soil Organic Matter (SOM)	<0.35 %	TM132				1.91 #		3.07 #	
pH	1 pH Units	TM133		7.28 M	6.83 M	7.2 M	6.49 M	7.84 M	7.55 M
Arsenic	<0.6 mg/kg	TM181		12.3 M	12.7 M	10.5 M	16.5 M	22 M	17.5 M
Cadmium	<0.02 mg/kg	TM181		0.356 M	0.284 M	0.25 M	0.541 M	0.954 M	0.398 M
Chromium	<0.9 mg/kg	TM181		13.7 M	13.2 M	14.3 M	16.8 M	15.2 M	18.3 M
Copper	<1.4 mg/kg	TM181		29.7 M	23.4 M	19.4 M	50.9 M	45.6 M	44.7 M
Lead	<0.7 mg/kg	TM181		29.5 M	22.4 M	19.1 M	45 M	50.9 M	62.7 M
Mercury	<0.14 mg/kg	TM181		4.99 M	7.17 M	3.88 M	16.3 M	1.05 M	1.87 M
Nickel	<0.2 mg/kg	TM181		28.5 M	27.1 M	25.5 M	33.6 M	25.6 M	32.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		22.3 #	16.9 #	19.7 #	35.1 #	22 #	23.3 #
Zinc	<1.9 mg/kg	TM181		98 M	78.4 M	70.2 M	107 M	132 M	146 M

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPA2	TPA2	TPA3	TPA3	TPA3	TPC1
			Depth (m)	3.00	4.00	1.00	2.00	3.00	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417325	11417351	11417356	11417361	11417366	11417370
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		15	13	14	15	13	16
Soil Organic Matter (SOM)	<0.35 %	TM132			1.76 #				
pH	1 pH Units	TM133		7.75 M	7.36 M	7.8 M	7.75 M	8.62 M	6.22 M
Arsenic	<0.6 mg/kg	TM181		17.2 M	12 M	16.5 M	18.7 M	19.3 M	8.02 M
Cadmium	<0.02 mg/kg	TM181		1.71 M	1.66 M	0.35 M	0.271 M	0.526 M	0.185 M
Chromium	<0.9 mg/kg	TM181		16.3 M	14 M	12 M	13 M	13.3 M	12.5 M
Copper	<1.4 mg/kg	TM181		54.5 M	19.6 M	39.6 M	26.6 M	48.3 M	11.5 M
Lead	<0.7 mg/kg	TM181		87.5 M	18.9 M	43.4 M	17.9 M	63.9 M	13.8 M
Mercury	<0.14 mg/kg	TM181		3.08 M	<0.14 M	0.817 M	<0.14 M	0.41 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		30.7 M	27.5 M	20.9 M	15.3 M	21.8 M	14.6 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		20.5 #	14.7 #	15.7 #	19.1 #	18.1 #	13.6 #
Zinc	<1.9 mg/kg	TM181		221 M	76.7 M	112 M	47.4 M	185 M	35.2 M

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPC1	TPC1	TPC2	TPC2	TPC2	TPC2
			Depth (m)	1.50	2.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417374	11417225	11417230	11417234	11417239	11417244
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		11	11	15	13	18	14
Soil Organic Matter (SOM)	<0.35 %	TM132		1.12 #					5.41 #
pH	1 pH Units	TM133		6.34 M	6.77 M	8.32 M	7.68 M	7.69 M	7.88 M
Arsenic	<0.6 mg/kg	TM181		11.1 M	9.78 M	19.1 M	17.8 M	24.5 M	17.6 M
Cadmium	<0.02 mg/kg	TM181		0.136 M	0.216 M	0.636 M	0.544 M	1.86 M	1.71 M
Chromium	<0.9 mg/kg	TM181		11.6 M	12.2 M	13.6 M	14.6 M	21.2 M	14.8 M
Copper	<1.4 mg/kg	TM181		14.9 M	19.9 M	62.2 M	56.1 M	73.6 M	50.4 M
Lead	<0.7 mg/kg	TM181		15 M	21.4 M	63.9 M	87.2 M	131 M	129 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	0.521 M	0.613 M	0.846 M	0.43 M
Nickel	<0.2 mg/kg	TM181		24.5 M	26.4 M	24.2 M	32.3 M	29.9 M	27.2 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		12.5 #	13.4 #	20.1 #	18.5 #	24.1 #	17.2 #
Zinc	<1.9 mg/kg	TM181		59.1 M	76.7 M	165 M	308 M	341 M	175 M

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPG1	TPG1	TPG1	TPG1	TPG2	TPG2
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417248	11417252	11417257	11417261	11417267	11417277
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		12	17	10	11	13	20
Soil Organic Matter (SOM)	<0.35 %	TM132				1.22 #			
pH	1 pH Units	TM133		8.52 M	7.55 M	7.85 M	6.45 M	7.91 M	7.94 M
Arsenic	<0.6 mg/kg	TM181		192 M	11.3 M	9.36 M	13.6 M	44.1 M	18.2 M
Cadmium	<0.02 mg/kg	TM181		2.35 M	0.908 M	1.38 M	1.5 M	0.965 M	1.14 M
Chromium	<0.9 mg/kg	TM181		48.6 M	13.6 M	13.2 M	12.8 M	50.9 M	12.5 M
Copper	<1.4 mg/kg	TM181		183 M	12.1 M	16 M	22.8 M	95.9 M	37.7 M
Lead	<0.7 mg/kg	TM181		1070 M	27 M	22 M	80.7 M	266 M	83.5 M
Mercury	<0.14 mg/kg	TM181		0.553 M	<0.14 M	<0.14 M	<0.14 M	1.98 M	0.497 M
Nickel	<0.2 mg/kg	TM181		34.8 M	14.6 M	29 M	31.9 M	35.6 M	16.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		39.6 #	19.5 #	13.5 #	13.8 #	134 #	15.1 #
Zinc	<1.9 mg/kg	TM181		2960 M	57.3 M	78.5 M	203 M	594 M	171 M

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPG2	TPG2	TPH1	TPH3	TPH3	TPH3
			Depth (m)	2.50	3.50	2.00	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	21/05/2015	21/05/2015	21/05/2015	21/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417281	11417286	11417291	11417296	11417301	11417306
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		14	12	12	11	11	14
Soil Organic Matter (SOM)	<0.35 %	TM132				1.07 #			
pH	1 pH Units	TM133		6.27 M	7.42 M	6.9 M	7.05 M	7.19 M	6.75 M
Arsenic	<0.6 mg/kg	TM181		11.8 M	12.8 M	9.07 M	27.2 M	51.9 M	18.4 M
Cadmium	<0.02 mg/kg	TM181		0.165 M	1.45 M	2.52 M	0.944 M	3.27 M	0.444 M
Chromium	<0.9 mg/kg	TM181		14.2 M	14.9 M	14 M	13 M	28.4 M	13.1 M
Copper	<1.4 mg/kg	TM181		19.7 M	27.5 M	12.7 M	213 M	753 M	24.8 M
Lead	<0.7 mg/kg	TM181		22 M	66.4 M	14.3 M	36.3 M	197 M	24.1 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.517 M	<0.14 M	<0.14 M	<0.14 M	0.313 M
Nickel	<0.2 mg/kg	TM181		29 M	33.1 M	32.6 M	25.6 M	32.4 M	20.2 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		17.3 #	17 #	15 #	17.7 #	18.7 #	20.1 #
Zinc	<1.9 mg/kg	TM181		72.2 M	126 M	71.6 M	166 M	818 M	42.5 M

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPH3	TPH3	TPI1	TPI2		
			Depth (m)	3.50	5.00	0.20	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/05/2015	21/05/2015	21/05/2015	21/05/2015		
			Sample Time	.	.	.	.		
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015		
			SDG Ref	150523-12	150523-12	150523-12	150523-12		
			Lab Sample No.(s)	11417312	11417316	11417321	11417329		
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		9.3	12	13	21		
Soil Organic Matter (SOM)	<0.35 %	TM132		2.59 #			3.09 #		
pH	1 pH Units	TM133		7.64 M	6.75 M	7.91 M	8.16 M		
Arsenic	<0.6 mg/kg	TM181		9.46 M	35.4 M	16.3 M	12.9 M		
Cadmium	<0.02 mg/kg	TM181		0.895 M	0.0957 M	1.1 M	1.48 M		
Chromium	<0.9 mg/kg	TM181		20.1 M	11.2 M	12.8 M	20.2 M		
Copper	<1.4 mg/kg	TM181		43.9 M	35.4 M	59.7 M	35.2 M		
Lead	<0.7 mg/kg	TM181		21 M	41.5 M	39.6 M	24.8 M		
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.639 M	<0.14 M	<0.14 M		
Nickel	<0.2 mg/kg	TM181		29.8 M	10.6 M	24.4 M	26.7 M		
Selenium	<1 mg/kg	TM181		<1 #	2.64 #	<1 #	<1 #		
Vanadium	<0.2 mg/kg	TM181		16 #	39.7 #	19.9 #	20 #		
Zinc	<1.9 mg/kg	TM181		54.6 M	22.2 M	115 M	83.4 M		

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPA1	TPA1	TPA1	TPA1	TPA2	TPA2
			Depth (m)	0.50	1.50	2.50	3.50	1.00	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417333	11417337	11417342	11417346	11417219	11417272
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		106	94.1	90	86	90.8	106
Acenaphthene-d10 % recovery**	%	TM218		106	91.2	88.1	83.6	89.5	106
Phenanthrene-d10 % recovery**	%	TM218		105	91.3	88.1	82.3	88.7	105
Chrysene-d12 % recovery**	%	TM218		106	100	94.8	92.2	92	110
Perylene-d12 % recovery**	%	TM218		117	101	93.7	94.8	90	116
Naphthalene	<9 µg/kg	TM218		211 M	270 M	69.8 M	920 M	80.5 M	111 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	22.5 M
Acenaphthene	<8 µg/kg	TM218		101 M	176 M	70.3 M	444 M	45.1 M	57.1 M
Fluorene	<10 µg/kg	TM218		129 M	262 M	117 M	605 M	87.2 M	98.1 M
Phenanthrene	<15 µg/kg	TM218		212 M	344 M	105 M	1020 M	212 M	475 M
Anthracene	<16 µg/kg	TM218		58.4 M	118 M	25.1 M	306 M	68.6 M	94.6 M
Fluoranthene	<17 µg/kg	TM218		223 M	210 M	26.7 M	795 M	185 M	526 M
Pyrene	<15 µg/kg	TM218		241 M	234 M	29.9 M	931 M	265 M	615 M
Benz(a)anthracene	<14 µg/kg	TM218		142 M	123 M	<14 M	438 M	86.9 M	306 M
Chrysene	<10 µg/kg	TM218		159 M	157 M	26.3 M	521 M	103 M	331 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		214 M	169 M	33.5 M	585 M	143 M	407 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		75.3 M	44.5 M	<14 M	163 M	55.4 M	180 M
Benzo(a)pyrene	<15 µg/kg	TM218		156 M	93.4 M	<15 M	414 M	88.3 M	340 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		77.8 M	46.9 M	<18 M	197 M	46.1 M	187 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		32.4 M	<23 M	<23 M	84 M	<23 M	64.2 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		98.7 M	62.4 M	<24 M	274 M	66.3 M	252 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		2130	2310	503	7690	1530	4070

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPA2	TPA2	TPA3	TPA3	TPA3	TPC1
			Depth (m)	3.00	4.00	1.00	2.00	3.00	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417325	11417351	11417356	11417361	11417366	11417370
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		98.5	97	92.3	92.6	95	91.8
Acenaphthene-d10 % recovery**	%	TM218		99	99.4	90.4	89.7	95.4	90.5
Phenanthrene-d10 % recovery**	%	TM218		98.3	98.1	91.4	90.3	98.1	92.2
Chrysene-d12 % recovery**	%	TM218		101	98.5	96.3	99.2	108	90.1
Perylene-d12 % recovery**	%	TM218		110	106	97.5	105	118	84
Naphthalene	<9 µg/kg	TM218		68.1 M	216 M	106 M	11.2 M	134 M	248 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	24 M	<12 M	29.2 M	<12 M
Acenaphthene	<8 µg/kg	TM218		24.1 M	18.9 M	46.2 M	<8 M	53.8 M	20.4 M
Fluorene	<10 µg/kg	TM218		40.9 M	16.9 M	119 M	<10 M	105 M	42.4 M
Phenanthrene	<15 µg/kg	TM218		225 M	108 M	283 M	42.2 M	348 M	51.6 M
Anthracene	<16 µg/kg	TM218		57.3 M	<16 M	91.7 M	<16 M	92.4 M	<16 M
Fluoranthene	<17 µg/kg	TM218		309 M	21.6 M	284 M	29.1 M	295 M	<17 M
Pyrene	<15 µg/kg	TM218		344 M	29.5 M	372 M	124 M	400 M	<15 M
Benz(a)anthracene	<14 µg/kg	TM218		176 M	<14 M	129 M	23.2 M	244 M	<14 M
Chrysene	<10 µg/kg	TM218		207 M	21.5 M	160 M	28.4 M	212 M	<10 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		258 M	42 M	203 M	76.6 M	346 M	35.8 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		91.9 M	<14 M	69.6 M	<14 M	131 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		182 M	<15 M	145 M	51 M	287 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		107 M	<18 M	88.7 M	27.9 M	154 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		35.4 M	<23 M	32.9 M	<23 M	57.4 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		142 M	<24 M	121 M	59.9 M	231 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		2270	475	2280	473	3120	398

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPC1	TPC1	TPC2	TPC2	TPC2	TPC2
			Depth (m)	1.50	2.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417374	11417225	11417230	11417234	11417239	11417244
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		108	96.6	103	114	105	98.4
Acenaphthene-d10 % recovery**	%	TM218		105	93.2	105	112	105	97.1
Phenanthrene-d10 % recovery**	%	TM218		106	94.4	106	114	106	96.7
Chrysene-d12 % recovery**	%	TM218		104	90	105	119	111	97.1
Perylene-d12 % recovery**	%	TM218		102	84.8	105	125	115	103
Naphthalene	<9 µg/kg	TM218		277 M	35.4 M	174 M	194 M	183 M	40 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	47.9 M	40.5 M	44.6 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	138 M	48.9 M	64.1 M	17.8 M
Fluorene	<10 µg/kg	TM218		16.8 M	<10 M	331 M	76.9 M	118 M	39.6 M
Phenanthrene	<15 µg/kg	TM218		85 M	53.2 M	604 M	480 M	493 M	302 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	419 M	95.3 M	110 M	44.9 M
Fluoranthene	<17 µg/kg	TM218		<17 M	<17 M	417 M	712 M	718 M	335 M
Pyrene	<15 µg/kg	TM218		<15 M	<15 M	516 M	657 M	675 M	288 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	305 M	474 M	606 M	159 M
Chrysene	<10 µg/kg	TM218		13.5 M	19 M	276 M	539 M	569 M	217 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		61.8 M	45.5 M	399 M	811 M	901 M	274 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	154 M	317 M	296 M	91.8 M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	374 M	606 M	640 M	167 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	216 M	333 M	304 M	105 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	93.2 M	122 M	108 M	35.9 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	<24 M	300 M	434 M	358 M	139 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		454	153	4770	5940	6190	2260

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
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*	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	Customer Sample R	TPG1	TPG1	TPG1	TPG1	TPG2	TPG2
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417248	11417252	11417257	11417261	11417267	11417277
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		96.5	91.4	94	91.8	90.1	89.5
Acenaphthene-d10 % recovery**	%	TM218		95	91.3	91	89.5	87.5	87.9
Phenanthrene-d10 % recovery**	%	TM218		94.3	92.2	89.5	89.6	86.6	87
Chrysene-d12 % recovery**	%	TM218		96.6	98.6	95.6	94.7	90.7	95.6
Perylene-d12 % recovery**	%	TM218		101	102	95.7	94.7	89.7	98.1
Naphthalene	<9 µg/kg	TM218		200 M	503 M	52.6 M	68.3 M	121 M	939 M
Acenaphthylene	<12 µg/kg	TM218		34.5 M	<12 M	<12 M	<12 M	54.2 M	<12 M
Acenaphthene	<8 µg/kg	TM218		139 M	222 M	<8 M	20.6 M	68.4 M	1280 M
Fluorene	<10 µg/kg	TM218		229 M	451 M	27.3 M	57.4 M	115 M	1700 M
Phenanthrene	<15 µg/kg	TM218		1430 M	378 M	65.2 M	72.9 M	655 M	1510 M
Anthracene	<16 µg/kg	TM218		284 M	146 M	<16 M	<16 M	221 M	392 M
Fluoranthene	<17 µg/kg	TM218		1960 M	483 M	<17 M	31.2 M	981 M	140 M
Pyrene	<15 µg/kg	TM218		1800 M	446 M	17.3 M	30.9 M	976 M	258 M
Benz(a)anthracene	<14 µg/kg	TM218		1100 M	252 M	<14 M	29.2 M	707 M	96.2 M
Chrysene	<10 µg/kg	TM218		1090 M	266 M	36.4 M	35 M	706 M	116 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		1370 M	311 M	66.2 M	52.8 M	854 M	108 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		509 M	107 M	<14 M	<14 M	311 M	38.1 M
Benzo(a)pyrene	<15 µg/kg	TM218		1150 M	216 M	<15 M	21.2 M	705 M	76.8 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		621 M	122 M	<18 M	<18 M	370 M	41 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		213 M	45.1 M	<23 M	<23 M	138 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		829 M	151 M	<24 M	<24 M	490 M	54.8 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		13000	4100	265	420	7470	6750

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPG2	TPG2	TPH1	TPH3	TPH3	TPH3
			Depth (m)	2.50	3.50	2.00	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	21/05/2015	21/05/2015	21/05/2015	21/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417281	11417286	11417291	11417296	11417301	11417306
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		93	98	92.6	94.2	97.6	92.8
Acenaphthene-d10 % recovery**	%	TM218		93.8	98.2	90.7	92.5	92.9	90.1
Phenanthrene-d10 % recovery**	%	TM218		92.2	97.9	91.7	93.3	93.5	89.5
Chrysene-d12 % recovery**	%	TM218		101	98.9	93.7	104	97.3	88.9
Perylene-d12 % recovery**	%	TM218		102	103	89.3	101	99.9	82.2
Naphthalene	<9 µg/kg	TM218		974 M	529 M	56.7 M	29.2 M	41 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	34 M	<12 M	<12 M	16.3 M	<12 M
Acenaphthene	<8 µg/kg	TM218		1110 M	436 M	12.6 M	<8 M	88.9 M	<8 M
Fluorene	<10 µg/kg	TM218		1390 M	672 M	22.3 M	31 M	131 M	<10 M
Phenanthrene	<15 µg/kg	TM218		1060 M	616 M	67.8 M	78.9 M	231 M	439 M
Anthracene	<16 µg/kg	TM218		329 M	126 M	<16 M	38.8 M	76.6 M	<16 M
Fluoranthene	<17 µg/kg	TM218		168 M	71.7 M	59.8 M	77.3 M	360 M	76.9 M
Pyrene	<15 µg/kg	TM218		223 M	94.6 M	52.9 M	77.5 M	273 M	126 M
Benz(a)anthracene	<14 µg/kg	TM218		124 M	36.2 M	22 M	34.1 M	109 M	<14 M
Chrysene	<10 µg/kg	TM218		147 M	56.6 M	38.7 M	60.1 M	92.1 M	231 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		196 M	71.2 M	61.1 M	99.7 M	97.6 M	312 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		58.9 M	27.9 M	<14 M	25.7 M	41.1 M	47.7 M
Benzo(a)pyrene	<15 µg/kg	TM218		116 M	39.2 M	18.4 M	40.9 M	95.4 M	<15 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		61.7 M	27.6 M	<18 M	34.8 M	71.5 M	23.4 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	36.5 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		81 M	45.7 M	<24 M	51.2 M	82.8 M	78.8 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		6040	2880	412	679	1810	1370

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPH3	TPH3	TPI1	TPI2		
			Depth (m)	3.50	5.00	0.20	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/05/2015	21/05/2015	21/05/2015	21/05/2015		
			Sample Time	.	.	.	.		
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015		
			SDG Ref	150523-12	150523-12	150523-12	150523-12		
			Lab Sample No.(s)	11417312	11417316	11417321	11417329		
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		94.4	101	96.1	97.5		
Acenaphthene-d10 % recovery**	%	TM218		90.7	97.7	95.2	96.7		
Phenanthrene-d10 % recovery**	%	TM218		90.9	96.9	95.9	99.4		
Chrysene-d12 % recovery**	%	TM218		91.9	92.3	101	110		
Perylene-d12 % recovery**	%	TM218		91.6	88.5	104	109		
Naphthalene	<9 µg/kg	TM218		<9 M	<9 M	40.1 M	277 M		
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	31.7 M		
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	13.2 M	4900 M		
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	20.8 M	1410 M		
Phenanthrene	<15 µg/kg	TM218		168 M	341 M	263 M	424 M		
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	433 M		
Fluoranthene	<17 µg/kg	TM218		33.2 M	92.4 M	344 M	1180 M		
Pyrene	<15 µg/kg	TM218		47.4 M	206 M	414 M	912 M		
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	<14 M	222 M	247 M		
Chrysene	<10 µg/kg	TM218		38.8 M	241 M	348 M	261 M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		125 M	193 M	586 M	179 M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	215 M	62.4 M		
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	<15 M	300 M	95.5 M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	186 M	40.2 M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	31.3 M	76.7 M	<23 M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		43.2 M	70.4 M	254 M	55.7 M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		455	1170	3280	10500		

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPA1	TPA1	TPA1	TPA1	TPA2	TPA2
			Depth (m)	0.50	1.50	2.50	3.50	1.00	2.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417333	11417337	11417342	11417346	11417219	11417272
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		78 @	83 @	75 @	99 @	68 @	71 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		89700 @ M	109000 @ M	50300 @ M	298000 @ M	56200 @ M	28700 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		62.6 @ M	66.1 @ M	<40 @ M	221 @ M	54.3 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M	66.7 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9 @	<9 @	<9 @	66.7 @
sum of detected BTEX by GC	<24 µg/kg	TM089		62.6 @	66.1 @	<24 @	221 @	54.3 @	66.7 @
Aliphatics >C5-C6	<10 µg/kg	TM089		113 @	106 @	<40 @	674 @	256 @	504 @
Aliphatics >C6-C8	<10 µg/kg	TM089		11500 @	11300 @	5510 @	48000 @	10100 @	5420 @
Aliphatics >C8-C10	<10 µg/kg	TM089		22600 @	27000 @	12200 @	77400 @	13000 @	6140 @
Aliphatics >C10-C12	<10 µg/kg	TM089		24200 @	31600 @	14600 @	72200 @	14400 @	7480 @
Aliphatics >C12-C16	<100 µg/kg	TM173		136000	290000	87900	952000	108000	64300
Aliphatics >C16-C21	<100 µg/kg	TM173		117000	245000	54500	915000	126000	83500
Aliphatics >C21-C35	<100 µg/kg	TM173		135000	303000	46300	952000	175000	117000
Aliphatics >C35-C44	<100 µg/kg	TM173		26600	83700	9020	246000	59000	30000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		415000	922000	198000	3070000	468000	295000
Aromatics >EC5-EC7	<10 µg/kg	TM089		62.6 @	66.1 @	<40 @	221 @	54.3 @	41.8 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		15100 @	18000 @	8130 @	51600 @	8690 @	4160 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		16100 @	21000 @	9760 @	48100 @	9600 @	4980 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		19800	87800	25900	266000	20500	15600
Aromatics >EC16-EC21	<100 µg/kg	TM173		35400	114000	30300	374000	54700	41200
Aromatics >EC21-EC35	<100 µg/kg	TM173		80700	208000	47900	615000	132000	107000
Aromatics >EC35-EC44	<100 µg/kg	TM173		30600	77400	17300	218000	53400	40400
Aromatics >EC40-EC44	<100 µg/kg	TM173		11500	30000	6780	84200	21100	15200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		166000	487000	121000	1470000	261000	204000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		671000	1520000	369000	4840000	785000	528000

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPA2	TPA2	TPA3	TPA3	TPA3	TPC1
			Depth (m)	3.00	4.00	1.00	2.00	3.00	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417325	11417351	11417356	11417361	11417366	11417370
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		76 @	78 @	79 @	80 @	66 @	116 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		2750 @ M	16300 @ M	13600 @ M	2430 @ M	74200 @ M	159000 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<5 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	11.6 @ M	<40 @ M	<40 @ M	258 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<2 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<3 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<6 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<3 @ M	<12 @ M	<12 @ M	<12 @ 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 @	258 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 @	51.8 @	84.7 @	97.1 @	242 @	3190 @
Aliphatics >C6-C8	<10 µg/kg	TM089		132 @	698 @	2460 @	452 @	9300 @	64700 @
Aliphatics >C8-C10	<10 µg/kg	TM089		394 @	1870 @	4070 @	310 @	21800 @	39900 @
Aliphatics >C10-C12	<10 µg/kg	TM089		1160 @	7440 @	2550 @	814 @	17000 @	14700 @
Aliphatics >C12-C16	<100 µg/kg	TM173		55500	38200	72700	322	69400	38600
Aliphatics >C16-C21	<100 µg/kg	TM173		72000	21800	102000	2720	102000	5570
Aliphatics >C21-C35	<100 µg/kg	TM173		105000	57000	204000	15200	123000	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		27400	14100	78100	8950	38600	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		259000	131000	457000	27200	333000	44100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 @	<40 @	11.6 @	<40 @	<40 @	258 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<10 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		262 @	1250 @	2710 @	218 @	14500 @	26600 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		774 @	4960 @	1700 @	543 @	11400 @	9770 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		9480	12700	14000	35700	3600	2390
Aromatics >EC16-EC21	<100 µg/kg	TM173		32600	23000	47600	197	23700	582
Aromatics >EC21-EC35	<100 µg/kg	TM173		91400	67200	152000	9400	70200	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		40900	22900	67400	6110	30300	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		16100	8350	26300	2570	12200	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		174000	126000	281000	51400	128000	2970
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		437000	273000	752000	81100	535000	206000

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPC1	TPC1	TPC2	TPC2	TPC2	TPC2
			Depth (m)	1.50	2.50	0.50	1.50	2.50	3.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417374	11417225	11417230	11417234	11417239	11417244
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		97 @	85 @	63 @	60 @	55 @	70 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		70200 @ M	3370 @ M	15700 @ M	49000 @ M	54200 @ M	5760 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		79.5 @ M	<40 @ M	<40 @ M	48.3 @ M	70.1 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	14.6 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	40.3 @ M	<24 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	40.3 @	<9 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		79.5 @	54.9 @	<24 @	48.3 @	70.1 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		433 @	87.4 @	<40 @	164 @	144 @	<40 @
Aliphatics >C6-C8	<10 µg/kg	TM089		22600 @	1360 @	473 @	10500 @	11200 @	293 @
Aliphatics >C8-C10	<10 µg/kg	TM089		20600 @	560 @	3400 @	13900 @	14100 @	1280 @
Aliphatics >C10-C12	<10 µg/kg	TM089		7650 @	552 @	5720 @	9130 @	11500 @	1980 @
Aliphatics >C12-C16	<100 µg/kg	TM173		7530	2190	337000	33500	59800	34300
Aliphatics >C16-C21	<100 µg/kg	TM173		1250	<100	534000	69600	65500	38600
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	914000	118000	123000	72100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	268000	22000	22900	15100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		8770	2190	2050000	243000	272000	160000
Aromatics >EC5-EC7	<10 µg/kg	TM089		79.5 @	<40 @	<40 @	48.3 @	70.1 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		13700 @	428 @	2270 @	9240 @	9420 @	851 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		5100 @	368 @	3820 @	6090 @	7700 @	1320 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		2900	704	61100	1690	12700	6660
Aromatics >EC16-EC21	<100 µg/kg	TM173		1030	564	226000	11900	28600	17800
Aromatics >EC21-EC35	<100 µg/kg	TM173		1770	2460	651000	60000	99600	60100
Aromatics >EC35-EC44	<100 µg/kg	TM173		955	936	295000	27300	51500	28100
Aromatics >EC40-EC44	<100 µg/kg	TM173		497	<100	118000	10900	20800	11400
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		6660	4670	1230000	101000	192000	113000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		85600	10200	3300000	393000	incomplete	278000

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPG1	TPG1	TPG1	TPG1	TPG2	TPG2
			Depth (m)	0.50	1.50	2.50	3.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015	20/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417248	11417252	11417257	11417261	11417267	11417277
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		67 @	76 @	84 @	88 @	69 @	68 @
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		1520 @ M	137000 @ M	13000 @ M	89200 @ M	9700 @ M	20500 @ M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M	<20 @ M
Benzene	<10 µg/kg	TM089		<10 @ M	118 @ M	<40 @ M	89.6 @ M	<40 @ M	<40 @ M
Toluene	<2 µg/kg	TM089		<2 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M	<8 @ M
Ethylbenzene	<3 µg/kg	TM089		<3 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
m,p-Xylene	<6 µg/kg	TM089		6.84 @ M	<24 @ M	40.3 @ M	<24 @ M	<24 @ M	<24 @ M
o-Xylene	<3 µg/kg	TM089		<3 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M	<12 @ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	40.3 @	<9 @	<9 @	<9 @
sum of detected BTEX by GC	<24 µg/kg	TM089		<24 @	118 @	40.3 @	89.6 @	<24 @	<24 @
Aliphatics >C5-C6	<10 µg/kg	TM089		<10 @	1090 @	<40 @	287 @	47.2 @	100 @
Aliphatics >C6-C8	<10 µg/kg	TM089		112 @	26800 @	930 @	19600 @	542 @	2680 @
Aliphatics >C8-C10	<10 µg/kg	TM089		279 @	32600 @	2500 @	22300 @	2230 @	4610 @
Aliphatics >C10-C12	<10 µg/kg	TM089		557 @	32800 @	4680 @	19200 @	3230 @	6000 @
Aliphatics >C12-C16	<100 µg/kg	TM173		81600	547000	20900	102000	82500	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		272000	243000	15500	61100	165000	332000
Aliphatics >C21-C35	<100 µg/kg	TM173		1190000	84500	<100	14100	232000	311000
Aliphatics >C35-C44	<100 µg/kg	TM173		731000	22500	<100	1850	78900	90900
Total Aliphatics >C12-C44	<100 µg/kg	TM173		2280000	897000	36400	179000	558000	735000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10 @	118 @	<40 @	89.6 @	<40 @	<40 @
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10 @	<40 @	<40 @	<40 @	<40 @	<40 @
Aromatics >EC8-EC10	<10 µg/kg	TM089		193 @	21800 @	1710 @	14900 @	1490 @	3070 @
Aromatics >EC10-EC12	<10 µg/kg	TM089		372 @	21800 @	3120 @	12800 @	2150 @	4000 @
Aromatics >EC12-EC16	<100 µg/kg	TM173		17100	133000	7550	39300	9250	284000
Aromatics >EC16-EC21	<100 µg/kg	TM173		104000	65500	6390	21800	53000	196000
Aromatics >EC21-EC35	<100 µg/kg	TM173		857000	42600	4370	18200	189000	234000
Aromatics >EC35-EC44	<100 µg/kg	TM173		737000	16300	1090	8700	97400	80300
Aromatics >EC40-EC44	<100 µg/kg	TM173		304000	6550	<100	3520	39300	31500
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1720000	258000	19400	88000	349000	795000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		4000000	1290000	68800	356000	917000	1550000

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPG2	TPG2	TPH1	TPH3	TPH3	TPH3
			Depth (m)	2.50	3.50	2.00	0.50	1.50	2.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	20/05/2015	20/05/2015	21/05/2015	21/05/2015	21/05/2015	21/05/2015
			Sample Time	.	.	.	.	.	.
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015	23/05/2015
			SDG Ref	150523-12	150523-12	150523-12	150523-12	150523-12	150523-12
			Lab Sample No.(s)	11417281	11417286	11417291	11417296	11417301	11417306
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		69 @	67 @	94	71	87	35
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		141000 @ M	189000 @ M	1930 M	1400 M	296 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 @ M	<20 @ M	27.4 M	<20 M	30.5 M	<20 M
Benzene	<10 µg/kg	TM089		<40 @ M	<40 @ M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 @ M	<8 @ M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 @ M	<24 @ M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 @ M	<12 @ M	<12 M	21.5 M	<12 M	<12 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9 @	<9 @	<9	21.5	<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		114 @	748 @	<40	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		2320 @	8090 @	453	70.1	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		17200 @	31300 @	202	198	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		66000 @	77100 @	520	559	73.5	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		396000	225000	12500	67100	5440	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		145000	91500	10500	97600	8790	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		78300	46000	9100	30200	4700	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		16400	7410	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		636000	370000	32100	195000	18900	<100
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		11500 @	20800 @	144	170	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		44000 @	51400 @	347	373	48.6	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		250000	143000	<100	4870	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		119000	83300	<100	28800	315	883
Aromatics >EC21-EC35	<100 µg/kg	TM173		89500	75500	<100	21500	806	3980
Aromatics >EC35-EC44	<100 µg/kg	TM173		23500	22500	<100	2990	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		8830	8880	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		483000	324000	<100	58100	1120	4870
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1260000	884000	33800	254000	20300	4870

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	TPH3	TPH3	TPI1	TPI2		
			Depth (m)	3.50	5.00	0.20	1.50		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	21/05/2015	21/05/2015	21/05/2015	21/05/2015		
			Sample Time	.	.	.	.		
			Date Received	23/05/2015	23/05/2015	23/05/2015	23/05/2015		
			SDG Ref	150523-12	150523-12	150523-12	150523-12		
			Lab Sample No.(s)	11417312	11417316	11417321	11417329		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		57 ♦	15 ♦	71	112		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		442 ♦ M	371 ♦ M	542 M	9320 M		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 ♦ M	<20 ♦ M	<20 M	74.9 M		
Benzene	<10 µg/kg	TM089		<40 ♦ M	<40 ♦ M	<40 M	<40 M		
Toluene	<2 µg/kg	TM089		<8 ♦ M	<8 ♦ M	<8 M	<8 M		
Ethylbenzene	<3 µg/kg	TM089		<12 ♦ M	<12 ♦ M	<12 M	133 M		
m,p-Xylene	<6 µg/kg	TM089		<24 ♦ M	<24 ♦ M	<24 M	<24 M		
o-Xylene	<3 µg/kg	TM089		<12 ♦ M	<12 ♦ M	<12 M	<12 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	133		
Aliphatics >C5-C6	<10 µg/kg	TM089		<40 ♦	<40 ♦	<40	87.6		
Aliphatics >C6-C8	<10 µg/kg	TM089		120 ♦	141 ♦	<40	1160		
Aliphatics >C8-C10	<10 µg/kg	TM089		111 ♦	92.7 ♦	65	1960		
Aliphatics >C10-C12	<10 µg/kg	TM089		58.3 ♦	<40 ♦	236	2550		
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	201	27500	86300		
Aliphatics >C16-C21	<100 µg/kg	TM173		741	903	95000	101000		
Aliphatics >C21-C35	<100 µg/kg	TM173		496	<100	255000	159000		
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	80100	38900		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1240	1100	457000	385000		
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40 ♦	<40 ♦	<40	<40		
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40 ♦	<40 ♦	<40	<40		
Aromatics >EC8-EC10	<10 µg/kg	TM089		85.8 ♦	62.2 ♦	45.6	1440		
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40 ♦	<40 ♦	157	1700		
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	844	3170	15800		
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	3420	35100	42600		
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	6780	196000	86100		
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	756	97100	32800		
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	38100	13100		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	11800	331000	177000		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		1680	13300	789000	571000		

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**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 Receieved SDG Original Sample Method Number	TPA1 0.50 SOLID 20/05/2015 00:00:00 29/05/2015 11:31:35 150523-12 11417333 TM048	1/6/15	Kevin Gill	Fibre bundles in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPA2 1.00 SOLID 20/05/2015 00:00:00 28/05/2015 15:38:36 150523-12 11417219 TM048	1/6/15	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 Receieved SDG Original Sample Method Number	TPA3 1.00 SOLID 20/05/2015 00:00:00 28/05/2015 15:45:16 150523-12 11417356 TM048	1/6/15	Kevin Gill	Fibre bundles in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPC1 0.50 SOLID 20/05/2015 00:00:00 29/05/2015 11:28:14 150523-12 11417370 TM048	1/6/15	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPC2 0.50 SOLID 20/05/2015 00:00:00 29/05/2015 11:24:49 150523-12 11417230 TM048	1/6/15	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**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 Receieved SDG Original Sample Method Number	TPG1 0.50 SOLID 20/05/2015 00:00:00 28/05/2015 13:52:59 150523-12 11417248 TM048	1/6/15	Kevin Gill	Soil containing ACM debris	Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPG2 0.50 SOLID 20/05/2015 00:00:00 28/05/2015 15:41:46 150523-12 11417267 TM048	1/6/15	Simon Postlewhite	Fibre bundles in soil	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPH3 0.50 SOLID 21/05/2015 00:00:00 28/05/2015 11:35:24 150523-12 11417296 TM048	1/6/15	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPI1 0.20 SOLID 21/05/2015 00:00:00 28/05/2015 14:21:00 150523-12 11417321 TM048	1/6/15	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Asbestos Quantification - Full

		Additional Asbestos Components (Using TM048)	Analysts Comments	Asbestos Quantification - Detailed Gravimetric - %	Asbestos Quantification - Gravimetric - %	Asbestos Quantification - PCOM Evaluation - %	Asbestos Quantification - Total - %
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPA3 1.00 SOLID 20/05/2015 00:00:00 16/07/2015 15:46:01 150523-12 11417356 TM 304	Crocidolite (#)	Fibre clumps in soil	0.0126 (#)	<0.001 (#)		0.0126 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPG1 0.50 SOLID 20/05/2015 00:00:00 17/07/2015 08:18:04 150523-12 11417248 TM 304	None (#)	N/C	0.0026 (#)	<0.001 (#)		0.0026 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPG2 0.50 SOLID 20/05/2015 00:00:00 16/07/2015 15:47:53 150523-12 11417267 TM 304	Crocidolite (#)	Fibre bundles in soil	0.0877 (#)	<0.001 (#)		0.0877 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	TPA1 0.50 SOLID 20/05/2015 00:00:00 25/06/2015 07:22:28 150523-12 11417333 TM 304	None (#)	N/C		<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**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.

CERTIFICATE OF ANALYSIS

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	11417333	11417337	11417342	11417346	11417219	11417272	11417325	11417351	11417356	11417361
Customer Sample Ref.	TPA1	TPA1	TPA1	TPA1	TPA2	TPA2	TPA2	TPA2	TPA3	TPA3
AGS Ref.										
Depth	0.50	1.50	2.50	3.50	1.00	2.00	3.00	4.00	1.00	2.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	02-Jun-2015				02-Jun-2015				02-Jun-2015	
Asbestos Quant. Detail Gravimetric									04-Aug-2015	
Asbestos Quantification - Full	04-Aug-2015									
EPH CWG (Aliphatic) GC (S)	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015
EPH CWG (Aromatic) GC (S)	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015
GRO by GC-FID (S)	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015
Metals in solid samples by OES	03-Jun-2015	28-May-2015	28-May-2015	28-May-2015	03-Jun-2015	02-Jun-2015	01-Jun-2015	01-Jun-2015	03-Jun-2015	28-May-2015
PAH by GCMS	02-Jun-2015	29-May-2015	29-May-2015	29-May-2015	31-May-2015	29-May-2015	29-May-2015	29-May-2015	31-May-2015	29-May-2015
pH	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	09-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015
Sample description	29-May-2015	27-May-2015	27-May-2015	27-May-2015	28-May-2015	27-May-2015	27-May-2015	27-May-2015	28-May-2015	27-May-2015
Total Organic Carbon			03-Jun-2015		03-Jun-2015			02-Jun-2015		
TPH CWG GC (S)	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015

Lab Sample No(s)	11417366	11417225	11417370	11417374	11417230	11417234	11417239	11417244	11417248	11417252
Customer Sample Ref.	TPA3	TPC1	TPC1	TPC1	TPC2	TPC2	TPC2	TPC2	TPG1	TPG1
AGS Ref.										
Depth	3.00	2.50	0.50	1.50	0.50	1.50	2.50	3.50	0.50	1.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			02-Jun-2015		02-Jun-2015				02-Jun-2015	
Asbestos Quant. Detail Gravimetric									04-Aug-2015	
EPH CWG (Aliphatic) GC (S)	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015
EPH CWG (Aromatic) GC (S)	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015
GRO by GC-FID (S)	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015
Metals in solid samples by OES	28-May-2015	28-May-2015	03-Jun-2015	28-May-2015	03-Jun-2015	28-May-2015	01-Jun-2015	01-Jun-2015	03-Jun-2015	01-Jun-2015
PAH by GCMS	30-May-2015	30-May-2015	02-Jun-2015	30-May-2015	04-Jun-2015	30-May-2015	02-Jun-2015	29-May-2015	04-Jun-2015	29-May-2015
pH	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015
Sample description	27-May-2015	27-May-2015	29-May-2015	27-May-2015	28-May-2015	27-May-2015	27-May-2015	27-May-2015	28-May-2015	27-May-2015
Total Organic Carbon				03-Jun-2015				03-Jun-2015		
TPH CWG GC (S)	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015

Lab Sample No(s)	11417257	11417261	11417267	11417277	11417281	11417286	11417291	11417296	11417301	11417306
Customer Sample Ref.	TPG1	TPG1	TPG2	TPG2	TPG2	TPG2	TPH1	TPH3	TPH3	TPH3
AGS Ref.										
Depth	2.50	3.50	0.50	1.50	2.50	3.50	2.00	0.50	1.50	2.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			02-Jun-2015					02-Jun-2015		
Asbestos Quant. Detail Gravimetric			04-Aug-2015							
EPH CWG (Aliphatic) GC (S)	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015
EPH CWG (Aromatic) GC (S)	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015
GRO by GC-FID (S)	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	05-Jun-2015	05-Jun-2015	05-Jun-2015	05-Jun-2015
Metals in solid samples by OES	01-Jun-2015	01-Jun-2015	03-Jun-2015	01-Jun-2015	02-Jun-2015	01-Jun-2015	01-Jun-2015	03-Jun-2015	01-Jun-2015	09-Jun-2015
PAH by GCMS	29-May-2015	29-May-2015	04-Jun-2015	29-May-2015	29-May-2015	29-May-2015	02-Jun-2015	02-Jun-2015	30-May-2015	02-Jun-2015
pH	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015
Sample description	27-May-2015	27-May-2015	28-May-2015	27-May-2015	27-May-2015	27-May-2015	27-May-2015	28-May-2015	27-May-2015	27-May-2015
Total Organic Carbon	03-Jun-2015						03-Jun-2015			
TPH CWG GC (S)	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	07-Jun-2015	05-Jun-2015	05-Jun-2015	05-Jun-2015	05-Jun-2015

Lab Sample No(s)	11417312	11417316	11417321	11417329
Customer Sample Ref.	TPH3	TPH3	TPI1	TPI2
AGS Ref.				
Depth	3.50	5.00	0.20	1.50
Type	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples			02-Jun-2015	
EPH CWG (Aliphatic) GC (S)	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015
EPH CWG (Aromatic) GC (S)	02-Jun-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015
GRO by GC-FID (S)	07-Jun-2015	07-Jun-2015	05-Jun-2015	05-Jun-2015
Metals in solid samples by OES	01-Jun-2015	28-May-2015	03-Jun-2015	01-Jun-2015
PAH by GCMS	30-May-2015	02-Jun-2015	02-Jun-2015	02-Jun-2015
pH	08-Jun-2015	08-Jun-2015	08-Jun-2015	08-Jun-2015
Sample description	27-May-2015	26-May-2015	28-May-2015	27-May-2015
Total Organic Carbon	03-Jun-2015			03-Jun-2015
TPH CWG GC (S)	07-Jun-2015	07-Jun-2015	05-Jun-2015	05-Jun-2015

SDG:	150523-12	**Location:**	Coed Darcy	**Order Number:**	CD1232
Job:	H_ATKINS_LDC-378	**Customer:**	Atkins Global Ltd	**Report Number:**	323991
Client Reference:	Phs 70 Trial Pits	**Attention:**	Jack Lowrie	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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 Dimethyphenol, 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 presevation 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.

ALcontrol Laboratories

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

Attention: Barney Irlam

CERTIFICATE OF ANALYSIS

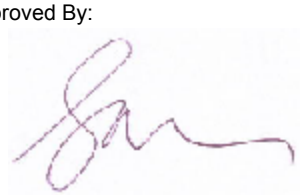
Date:	08 June 2015
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	150523-4
Your Reference:	Phase 70 Trial Pits
Location:	Coed Darcy
Report No:	316051

We received 1 sample on Saturday May 23, 2015 and 1 of these samples were scheduled for analysis which was completed on Monday June 08, 2015. 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

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CERTIFICATE OF ANALYSIS

SDG:	150523-4	**Location:**	Coed Darcy	**Order Number:**	CD1241
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	316051
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11416801	TPJ1		3.80	22/05/2015

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

CERTIFICATE OF ANALYSIS

SDG:	150523-4	**Location:**	Coed Darcy	**Order Number:**	CD1241
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	316051
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container		
			11416801	TPJ1		3.80	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 1					X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 1					X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 1							X
Metals in solid samples by OES	All	NDPs: 0 Tests: 1					X		
PAH by GCMS	All	NDPs: 0 Tests: 1					X		
pH	All	NDPs: 0 Tests: 1						X	
Sample description	All	NDPs: 0 Tests: 1					X		
Total Organic Carbon	All	NDPs: 0 Tests: 1					X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 1					X		

CERTIFICATE OF ANALYSIS

SDG:	150523-4	**Location:**	Coed Darcy	**Order Number:**	CD1241
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	316051
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**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
11416801	TPJ1	3.80	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	150523-4	**Location:**	Coed Darcy	**Order Number:**	CD1241
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	316051
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	
			TPJ1	
			Depth (m)	3.80
			Sample Type	Soil/Solid
			Date Sampled	22/05/2015
			Sample Time	.
			Date Received	23/05/2015
			SDG Ref	150523-4
			Lab Sample No.(s)	11416801
			AGS Reference	
Moisture Content Ratio (% of as received sample)	%	PM024	14	
Soil Organic Matter (SOM)	<0.35 %	TM132	1.2	#
pH	1 pH Units	TM133	6.21	M
Arsenic	<0.6 mg/kg	TM181	9.88	M
Cadmium	<0.02 mg/kg	TM181	1.91	M
Chromium	<0.9 mg/kg	TM181	16.8	M
Copper	<1.4 mg/kg	TM181	14.3	M
Lead	<0.7 mg/kg	TM181	16.8	M
Mercury	<0.14 mg/kg	TM181	<0.14	M
Nickel	<0.2 mg/kg	TM181	43	M
Selenium	<1 mg/kg	TM181	<1	#
Vanadium	<0.2 mg/kg	TM181	15.5	#
Zinc	<1.9 mg/kg	TM181	82.6	M

CERTIFICATE OF ANALYSIS

SDG:	150523-4	**Location:**	Coed Darcy	**Order Number:**	CD1241
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	316051
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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)

Customer Sample R	TPJ1
Depth (m)	3.80
Sample Type	Soil/Solid
Date Sampled	22/05/2015
Sample Time	.
Date Received	23/05/2015
SDG Ref	150523-4
Lab Sample No.(s)	11416801
AGS Reference	

Component	LOD/Units	Method	
Naphthalene-d8 % recovery**	%	TM218	91.6
Acenaphthene-d10 % recovery**	%	TM218	88.5
Phenanthrene-d10 % recovery**	%	TM218	87.4
Chrysene-d12 % recovery**	%	TM218	92
Perylene-d12 % recovery**	%	TM218	91.3
Naphthalene	<9 µg/kg	TM218	306 M
Acenaphthylene	<12 µg/kg	TM218	<12 M
Acenaphthene	<8 µg/kg	TM218	91.7 M
Fluorene	<10 µg/kg	TM218	242 M
Phenanthrene	<15 µg/kg	TM218	907 M
Anthracene	<16 µg/kg	TM218	116 M
Fluoranthene	<17 µg/kg	TM218	108 M
Pyrene	<15 µg/kg	TM218	235 M
Benz(a)anthracene	<14 µg/kg	TM218	107 M
Chrysene	<10 µg/kg	TM218	188 M
Benzo(b)fluoranthene	<15 µg/kg	TM218	81.3 M
Benzo(k)fluoranthene	<14 µg/kg	TM218	22.3 M
Benzo(a)pyrene	<15 µg/kg	TM218	52.5 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	25.2 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	31.6 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2510

CERTIFICATE OF ANALYSIS

SDG:	150523-4	**Location:**	Coed Darcy	**Order Number:**	CD1241
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	316051
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R					
			TPJ1					
			Depth (m)	3.80				
			Sample Type	Soil/Solid				
			Date Sampled	22/05/2015				
			Sample Time	.				
			Date Received	23/05/2015				
			SDG Ref	150523-4				
			Lab Sample No.(s)	11416801				
			AGS Reference					
GRO Surrogate % recovery**	%	TM089	162 ♦					
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	1020000 ♦ M					
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	2370 ♦ M					
Benzene	<10 µg/kg	TM089	340 ♦ M					
Toluene	<2 µg/kg	TM089	<40 ♦ M					
Ethylbenzene	<3 µg/kg	TM089	<60 ♦ M					
m,p-Xylene	<6 µg/kg	TM089	<120 ♦ M					
o-Xylene	<3 µg/kg	TM089	<60 ♦ M					
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9 ♦					
sum of detected BTEX by GC	<24 µg/kg	TM089	340 ♦					
Aliphatics >C5-C6	<10 µg/kg	TM089	1870 ♦					
Aliphatics >C6-C8	<10 µg/kg	TM089	85500 ♦					
Aliphatics >C8-C10	<10 µg/kg	TM089	232000 ♦					
Aliphatics >C10-C12	<10 µg/kg	TM089	323000 ♦					
Aliphatics >C12-C16	<100 µg/kg	TM173	306000					
Aliphatics >C16-C21	<100 µg/kg	TM173	58800					
Aliphatics >C21-C35	<100 µg/kg	TM173	42900					
Aliphatics >C35-C44	<100 µg/kg	TM173	6800					
Total Aliphatics >C12-C44	<100 µg/kg	TM173	415000					
Aromatics >EC5-EC7	<10 µg/kg	TM089	340 ♦					
Aromatics >EC7-EC8	<10 µg/kg	TM089	<200 ♦					
Aromatics >EC8-EC10	<10 µg/kg	TM089	155000 ♦					
Aromatics >EC10-EC12	<10 µg/kg	TM089	215000 ♦					
Aromatics >EC12-EC16	<100 µg/kg	TM173	23200					
Aromatics >EC16-EC21	<100 µg/kg	TM173	23100					
Aromatics >EC21-EC35	<100 µg/kg	TM173	27600					
Aromatics >EC35-EC44	<100 µg/kg	TM173	7140					
Aromatics >EC40-EC44	<100 µg/kg	TM173	2530					
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	81000					
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1510000					

CERTIFICATE OF ANALYSIS

SDG:	150523-4	**Location:**	Coed Darcy	**Order Number:**	CD1241
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	316051
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
PM001		Preparation of Samples for Metals Analysis		
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)		
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.

CERTIFICATE OF ANALYSIS

SDG:	150523-4	**Location:**	Coed Darcy	**Order Number:**	CD1241
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	316051
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	11416801
Customer Sample Ref.	TPJ1
AGS Ref.	
Depth	3.80
Type	SOLID
EPH CWG (Aliphatic) GC (S)	01-Jun-2015
EPH CWG (Aromatic) GC (S)	01-Jun-2015
GRO by GC-FID (S)	08-Jun-2015
Metals in solid samples by OES	01-Jun-2015
PAH by GCMS	29-May-2015
pH	03-Jun-2015
Sample description	27-May-2015
Total Organic Carbon	02-Jun-2015
TPH CWG GC (S)	08-Jun-2015

SDG:	150523-4	**Location:**	Coed Darcy	**Order Number:**	CD1241
Job:	H_ATKINS_LDC-373	**Customer:**	Atkins Global Ltd	**Report Number:**	316051
Client Reference:	Phase 70 Trial Pits	**Attention:**	Barney Irlam	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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 Dimethyphenol, 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 presevation 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.

ALcontrol Laboratories

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

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

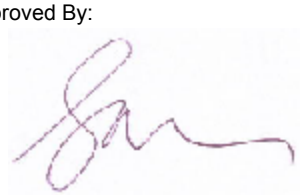
Date:	12 June 2015
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	150605-105
Your Reference:	PCB SS3
Location:	Coed Darcy
Report No:	316791

We received 14 samples on Friday June 05, 2015 and 14 of these samples were scheduled for analysis which was completed on Friday June 12, 2015. 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

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	150605-105	**Location:**	Coed Darcy	**Order Number:**	CD1247
Job:	H_ATKINS_LDC-382	**Customer:**	Atkins Global Ltd	**Report Number:**	316791
Client Reference:	PCB SS3	**Attention:**	Jack Lowrie	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
11485478	IP3927		0.50	03/06/2015
11485481	IP3927		1.50	03/06/2015
11485485	IP3927		2.50	03/06/2015
11485489	IP3927		3.50	03/06/2015
11485447	IP3927		4.50	03/06/2015
11485443	IP3928		0.50	03/06/2015
11485463	IP3928		1.50	03/06/2015
11485466	IP3928		2.50	03/06/2015
11485471	IP3928		3.50	03/06/2015
11485474	IP3928		4.50	03/06/2015
11485450	IP3929		0.50	03/06/2015
11485453	IP3929		1.50	03/06/2015
11485457	IP3929		2.50	03/06/2015
11485460	IP3929		3.50	03/06/2015

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

CERTIFICATE OF ANALYSIS

SDG:	150605-105	**Location:**	Coed Darcy	**Order Number:**	CD1247
Job:	H_ATKINS_LDC-382	**Customer:**	Atkins Global Ltd	**Report Number:**	316791
Client Reference:	PCB SS3	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			11485478	IP3927		0.50	250g Amber Jar (AL
			11485481	IP3927		1.50	250g Amber Jar (AL
			11485485	IP3927		2.50	250g Amber Jar (AL
			11485489	IP3927		3.50	250g Amber Jar (AL
			11485447	IP3927		4.50	250g Amber Jar (AL
			11485443	IP3928		0.50	250g Amber Jar (AL
			11485463	IP3928		1.50	250g Amber Jar (AL
			11485466	IP3928		2.50	250g Amber Jar (AL
			11485471	IP3928		3.50	250g Amber Jar (AL
			11485474	IP3928		4.50	250g Amber Jar (AL
			11485450	IP3929		0.50	250g Amber Jar (AL
			11485453	IP3929		1.50	250g Amber Jar (AL
			11485457	IP3929		2.50	250g Amber Jar (AL
			11485460	IP3929		3.50	250g Amber Jar (AL
PCBs by GCMS	All	NDPs: 0 Tests: 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	150605-105	**Location:**	Coed Darcy	**Order Number:**	CD1247
Job:	H_ATKINS_LDC-382	**Customer:**	Atkins Global Ltd	**Report Number:**	316791
Client Reference:	PCB SS3	**Attention:**	Jack Lowrie	**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
11485447	IP3927	4.50	Light Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	None
11485478	IP3927	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11485481	IP3927	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Oil/Petroleum
11485485	IP3927	2.50	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Oil/Petroleum
11485489	IP3927	3.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11485443	IP3928	0.50	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
11485463	IP3928	1.50	Dark Brown	Sandy Clay	0.1 - 2 mm	Stones	None
11485466	IP3928	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11485471	IP3928	3.50	Grey	Sandy Clay	0.1 - 2 mm	Stones	None
11485474	IP3928	4.50	Grey	Sandy Clay	0.1 - 2 mm	Oil/Petroleum	Stones
11485450	IP3929	0.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11485453	IP3929	1.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
11485457	IP3929	2.50	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
11485460	IP3929	3.50	Dark Brown	Sandy Clay Loam	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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	150605-105	**Location:**	Coed Darcy	**Order Number:**	CD1247
Job:	H_ATKINS_LDC-382	**Customer:**	Atkins Global Ltd	**Report Number:**	316791
Client Reference:	PCB SS3	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	IP3927	IP3927	IP3927	IP3927	IP3927	IP3928
			Depth (m)	0.50	1.50	2.50	3.50	4.50	0.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/06/2015	03/06/2015	03/06/2015	03/06/2015	03/06/2015	03/06/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/06/2015	05/06/2015	05/06/2015	05/06/2015	05/06/2015	05/06/2015
			SDG Ref	150605-105	150605-105	150605-105	150605-105	150605-105	150605-105
			Lab Sample No.(s)	11485478	11485481	11485485	11485489	11485447	11485443
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		16	15	18	12	13	13
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 81	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 77	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 123	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 114	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 105	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 126	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 167	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 156	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 157	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 169	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 189	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected WHO 12 PCBs	<36 µg/kg	TM168		<36	<36	<36	<36	<36	<36

CERTIFICATE OF ANALYSIS

SDG:	150605-105	**Location:**	Coed Darcy	**Order Number:**	CD1247
Job:	H_ATKINS_LDC-382	**Customer:**	Atkins Global Ltd	**Report Number:**	316791
Client Reference:	PCB SS3	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	IP3928	IP3928	IP3928	IP3928	IP3929	IP3929
			Depth (m)	1.50	2.50	3.50	4.50	0.50	1.50
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	03/06/2015	03/06/2015	03/06/2015	03/06/2015	03/06/2015	03/06/2015
			Sample Time	.	.	.	.	.	.
			Date Received	05/06/2015	05/06/2015	05/06/2015	05/06/2015	05/06/2015	05/06/2015
			SDG Ref	150605-105	150605-105	150605-105	150605-105	150605-105	150605-105
			Lab Sample No.(s)	11485463	11485466	11485471	11485474	11485450	11485453
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		17	17	12	11	14	21
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 81	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 77	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 123	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 114	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 105	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 126	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 167	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 156	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 157	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 169	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
PCB congener 189	<3 µg/kg	TM168		<3 M	<3 M	<3 M	<3 M	<3 M	<3 M
Sum of detected WHO 12 PCBs	<36 µg/kg	TM168		<36	<36	<36	<36	<36	<36

CERTIFICATE OF ANALYSIS

SDG:	150605-105	**Location:**	Coed Darcy	**Order Number:**	CD1247
Job:	H_ATKINS_LDC-382	**Customer:**	Atkins Global Ltd	**Report Number:**	316791
Client Reference:	PCB SS3	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	IP3929	IP3929				
			Depth (m)	2.50	3.50				
			Sample Type	Soil/Solid	Soil/Solid				
			Date Sampled	03/06/2015	03/06/2015				
			Sample Time	.	.				
			Date Received	05/06/2015	05/06/2015				
			SDG Ref	150605-105	150605-105				
			Lab Sample No.(s)	11485457	11485460				
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		22	21				
PCB congener 118	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 81	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 77	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 123	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 114	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 105	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 126	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 167	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 156	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 157	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 169	<3 µg/kg	TM168		<3 M	<3 M				
PCB congener 189	<3 µg/kg	TM168		<3 M	<3 M				
Sum of detected WHO 12 PCBs	<36 µg/kg	TM168		<36	<36				

CERTIFICATE OF ANALYSIS

SDG:	150605-105	**Location:**	Coed Darcy	**Order Number:**	CD1247
Job:	H_ATKINS_LDC-382	**Customer:**	Atkins Global Ltd	**Report Number:**	316791
Client Reference:	PCB SS3	**Attention:**	Jack Lowrie	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample [1]	Surrogate Corrected
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material		
TM168	EPA Method 8082, Polychlorinated Biphenyls by Gas Chromatography	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils		

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

CERTIFICATE OF ANALYSIS

SDG:	150605-105	**Location:**	Coed Darcy	**Order Number:**	CD1247
Job:	H_ATKINS_LDC-382	**Customer:**	Atkins Global Ltd	**Report Number:**	316791
Client Reference:	PCB SS3	**Attention:**	Jack Lowrie	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	11485447	11485478	11485481	11485485	11485489	11485443	11485463	11485466	11485471	11485474
Customer Sample Ref.	IP3927	IP3927	IP3927	IP3927	IP3927	IP3928	IP3928	IP3928	IP3928	IP3928
AGS Ref.										
Depth	4.50	0.50	1.50	2.50	3.50	0.50	1.50	2.50	3.50	4.50
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
PCBs by GCMS	12-Jun-2015	12-Jun-2015	12-Jun-2015	12-Jun-2015	12-Jun-2015	11-Jun-2015	11-Jun-2015	11-Jun-2015	11-Jun-2015	11-Jun-2015
Sample description	06-Jun-2015	06-Jun-2015	06-Jun-2015	06-Jun-2015	06-Jun-2015	06-Jun-2015	05-Jun-2015	06-Jun-2015	05-Jun-2015	05-Jun-2015

Lab Sample No(s)	11485450	11485453	11485457	11485460
Customer Sample Ref.	IP3929	IP3929	IP3929	IP3929
AGS Ref.				
Depth	0.50	1.50	2.50	3.50
Type	SOLID	SOLID	SOLID	SOLID
PCBs by GCMS	12-Jun-2015	12-Jun-2015	11-Jun-2015	12-Jun-2015
Sample description	06-Jun-2015	06-Jun-2015	05-Jun-2015	06-Jun-2015

SDG:	150605-105	**Location:**	Coed Darcy	**Order Number:**	CD1247
Job:	H_ATKINS_LDC-382	**Customer:**	Atkins Global Ltd	**Report Number:**	316791
Client Reference:	PCB SS3	**Attention:**	Jack Lowrie	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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 Dimethyphenol, 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 presevation 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.

ALcontrol Laboratories

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

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	31 January 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	121215-14
Your Reference:	Stockpiles
Location:	Coed Darcy Urban Village
Report No:	210579

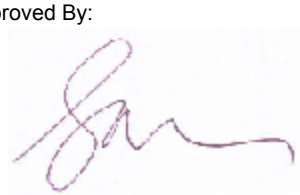
This report has been revised and directly supersedes 207429 in its entirety.

We received 25 samples on Friday December 14, 2012 and 25 of these samples were scheduled for analysis which was completed on Thursday January 31, 2013. 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

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
6669175	SP78-1			11/12/2012
6669176	SP78-2			11/12/2012
6669177	SP78-3			11/12/2012
6669179	SP78-4			11/12/2012
6669180	SP78-5			11/12/2012
6669181	SP78-6			11/12/2012
6669182	SP78-7			11/12/2012
6669183	SP79-1			11/12/2012
6669184	SP79-2			11/12/2012
6669185	SP80-1			11/12/2012
6669186	SP80-2			11/12/2012
6669187	SP80-3			11/12/2012
6669188	SP80-4			11/12/2012
6669189	SP80-5			11/12/2012
6669191	SP80-6			11/12/2012
6669193	SP80-7			11/12/2012
6669194	SP80-8			11/12/2012
6669195	SP80-9			11/12/2012
6669169	SP66-28			12/12/2012
6669170	SP66-29			12/12/2012
6669171	SP66-30			12/12/2012
6669172	SP66-31			12/12/2012
6669173	SP66-32			12/12/2012
6669174	SP66-33			12/12/2012
6669196	SP80-10			11/12/2012

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

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			669175	SP78-1			250g Amber Jar (AL
			669176	SP78-2			400g Tub (ALE214)
			669177	SP78-3			60g VOC (ALE215)
			669179	SP78-4			250g Amber Jar (AL
			669180	SP78-5			400g Tub (ALE214)
			669181	SP78-6			60g VOC (ALE215)
			669182	SP78-7			250g Amber Jar (AL
			669183	SP79-1			400g Tub (ALE214)
			669184	SP79-2			60g VOC (ALE215)
			669185	SP80-1			250g Amber Jar (AL
			669186	SP80-2			400g Tub (ALE214)
			669187	SP80-3			60g VOC (ALE215)
			669188	SP80-4			250g Amber Jar (AL
			669189	SP80-5			400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 22		X			X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 9					X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 25		X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 25		X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 25			X		
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 25		X			X
	Cadmium	NDPs: 0 Tests: 25		X			X
	Chromium	NDPs: 0 Tests: 25		X			X
	Copper	NDPs: 0 Tests: 25		X			X
	Lead	NDPs: 0 Tests: 25		X			X
	Mercury	NDPs: 0 Tests: 25		X			X
	Nickel	NDPs: 0 Tests: 25		X			X
	Selenium	NDPs: 0 Tests: 25		X			X
	Vanadium	NDPs: 0 Tests: 25		X			X
	Zinc	NDPs: 0 Tests: 25		X			X

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			669175	SP78-1			250g Amber Jar (AL
			669176	SP78-2			400g Tub (ALE214)
			669177	SP78-3			60g VOC (ALE215)
			669179	SP78-4			250g Amber Jar (AL
			669180	SP78-5			400g Tub (ALE214)
			669181	SP78-6			60g VOC (ALE215)
			669182	SP78-7			250g Amber Jar (AL
			669183	SP79-1			400g Tub (ALE214)
			669184	SP79-2			60g VOC (ALE215)
			669185	SP80-1			250g Amber Jar (AL
			669186	SP80-2			400g Tub (ALE214)
			669187	SP80-3			60g VOC (ALE215)
			669188	SP80-4			250g Amber Jar (AL
			669189	SP80-5			400g Tub (ALE214)
							60g VOC (ALE215)
							250g Amber Jar (AL
PAH by GCMS	All	NDPs: 0 Tests: 25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pH	All	NDPs: 0 Tests: 25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sample description	All	NDPs: 0 Tests: 25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 14 Tests: 7	X	X	N	X	N	X	N	N	N	N	N	N	N	N	N	X	N	N	N	N	N	N	N	N	N	N	N
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TPH CWG GC (S)	All	NDPs: 0 Tests: 25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

SOLID

Results Legend

- X — Test
- N — No Determination Possible

AGS Reference: (blank). Depth (m): (blank).

Test	Analyte	Counts	6669189 SP80-5 400g Tub (ALE214)	6669189 SP80-5 60g VOC (ALE215)	6669191 SP80-6 250g Amber Jar (AL	6669191 SP80-6 400g Tub (ALE214)	6669191 SP80-6 60g VOC (ALE215)	6669193 SP80-7 250g Amber Jar (AL	6669193 SP80-7 400g Tub (ALE214)	6669193 SP80-7 60g VOC (ALE215)	6669194 SP80-8 250g Amber Jar (AL	6669194 SP80-8 400g Tub (ALE214)	6669194 SP80-8 60g VOC (ALE215)	6669195 SP80-9 250g Amber Jar (AL	6669195 SP80-9 400g Tub (ALE214)	6669195 SP80-9 60g VOC (ALE215)	6669169 SP66-28 250g Amber Jar (AL	6669169 SP66-28 400g Tub (ALE214)	6669169 SP66-28 60g VOC (ALE215)	6669170 SP66-29 250g Amber Jar (AL	6669170 SP66-29 400g Tub (ALE214)	6669170 SP66-29 60g VOC (ALE215)	6669171 SP66-30 250g Amber Jar (AL	6669171 SP66-30 400g Tub (ALE214)	6669171 SP66-30 60g VOC (ALE215)	6669172 SP66-31 250g Amber Jar (AL	6669172 SP66-31 400g Tub (ALE214)	6669172 SP66-31 60g VOC (ALE215)	6669173 SP66-32 250g Amber Jar (AL	6669173 SP66-32 400g Tub (ALE214)	6669173 SP66-32 60g VOC (ALE215)	6669174 SP66-33 250g Amber Jar (AL	6669174 SP66-33 400g Tub (ALE214)	6669174 SP66-33 60g VOC (ALE215)	6669196 SP80-10 250g Amber Jar (AL	6669196 SP80-10 400g Tub (ALE214)	6669196 SP80-10 60g VOC (ALE215)
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 22	X			X			X			X			X			X						X						X						X	
Asbestos Quantification - Full	All	NDPs: 0 Tests: 9	X						X						X									X													
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 25		X			X			X			X			X			X			X			X			X			X			X			X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
	Cadmium	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
	Chromium	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
	Copper	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
	Lead	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
	Mercury	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
	Nickel	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
	Selenium	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
	Vanadium	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
	Zinc	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			669189	SP80-5			400g Tub (ALE214)
			669189	SP80-5			60g VOC (ALE215)
			669191	SP80-6			250g Amber Jar (AL
			669191	SP80-6			400g Tub (ALE214)
			669191	SP80-6			60g VOC (ALE215)
			669193	SP80-7			250g Amber Jar (AL
			669193	SP80-7			400g Tub (ALE214)
			669193	SP80-7			60g VOC (ALE215)
			669194	SP80-8			250g Amber Jar (AL
			669194	SP80-8			400g Tub (ALE214)
			669194	SP80-8			60g VOC (ALE215)
			669195	SP80-9			250g Amber Jar (AL
			669195	SP80-9			400g Tub (ALE214)
			669195	SP80-9			60g VOC (ALE215)
			669169	SP66-28			250g Amber Jar (AL
			669169	SP66-28			400g Tub (ALE214)
			669169	SP66-28			60g VOC (ALE215)
			669170	SP66-29			250g Amber Jar (AL
			669170	SP66-29			400g Tub (ALE214)
			669170	SP66-29			60g VOC (ALE215)
			669171	SP66-30			250g Amber Jar (AL
			669171	SP66-30			400g Tub (ALE214)
			669171	SP66-30			60g VOC (ALE215)
			669172	SP66-31			250g Amber Jar (AL
			669172	SP66-31			400g Tub (ALE214)
			669172	SP66-31			60g VOC (ALE215)
			669173	SP66-32			250g Amber Jar (AL
			669173	SP66-32			400g Tub (ALE214)
			669173	SP66-32			60g VOC (ALE215)
			669174	SP66-33			250g Amber Jar (AL
			669174	SP66-33			400g Tub (ALE214)
			669174	SP66-33			60g VOC (ALE215)
			669196	SP80-10			250g Amber Jar (AL
			669196	SP80-10			400g Tub (ALE214)
			669196	SP80-10			60g VOC (ALE215)
PAH by GCMS	All	NDPs: 0 Tests: 25		X			X
pH	All	NDPs: 0 Tests: 25	X		X		
Sample description	All	NDPs: 0 Tests: 25		X			X
Total Organic Carbon	All	NDPs: 14 Tests: 7		N			N
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 14		X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 25		X			X
VOC MS (S)	All	NDPs: 0 Tests: 25	X		X		

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

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
6669175	SP78-1		Dark Brown	Sand	0.1 - 2 mm	Stones	None
6669176	SP78-2		Light Brown	Sand	0.063 - 0.1 mm	Vegetation	None
6669177	SP78-3		Light Brown	Loamy Sand	0.063 - 0.1 mm	Stones	Vegetation
6669179	SP78-4		Dark Brown	Loamy Sand	0.063 - 0.1 mm	Vegetation	None
6669180	SP78-5		Light Brown	Sand	0.063 - 0.1 mm	Vegetation	None
6669181	SP78-6		Light Brown	Sand	0.063 - 0.1 mm	None	Stones
6669182	SP78-7		Dark Brown	Loamy Sand	0.063 - 0.1 mm	Stones	None
6669183	SP79-1		Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	None
6669184	SP79-2		Dark Brown	Sandy Clay	0.063 - 0.1 mm	Stones	Crushed Brick
6669185	SP80-1		Dark Brown	Sandy Clay Loam	0.063 - 0.1 mm	Stones	Brick
6669186	SP80-2		Light Brown	Loamy Sand	0.063 - 0.1 mm	Stones	Vegetation
6669187	SP80-3		Dark Brown	Silt Loam	0.063 - 0.1 mm	Stones	Vegetation
6669188	SP80-4		Light Brown	Loamy Sand	0.063 - 0.1 mm	Stones	Vegetation
6669189	SP80-5		Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	None
6669191	SP80-6		Light Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	None
6669193	SP80-7		Light Brown	Silt Loam	0.063 - 0.1 mm	Stones	None
6669194	SP80-8		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
6669195	SP80-9		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
6669169	SP66-28		Black	Loamy Sand	2 - 10 mm	N/A	Stones
6669170	SP66-29		Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
6669171	SP66-30		Black	Sandy Loam	0.1 - 2 mm	Stones	None
6669172	SP66-31		Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
6669173	SP66-32		Black	Sand	2 - 10 mm	Stones	None
6669174	SP66-33		Dark Brown	Silty Sand	0.063 - 0.1 mm	Stones	N/A
6669196	SP80-10		Light Brown	Sandy Loam	0.063 - 0.1 mm	Stones	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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-1	SP78-2	SP78-3	SP78-4	SP78-5	SP78-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669175	6669176	6669177	6669179	6669180	6669181
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		2.19 #	3.72 #		2.71 #		2.72 #
pH	1 pH Units	TM133		8.2 M	7.98 M	8.08 M	8.12 M	8.53 M	8 M
Arsenic	<0.6 mg/kg	TM181		13.9 M	10.1 M	11.9 M	11.3 M	14.4 M	17.3 M
Cadmium	<0.02 mg/kg	TM181		0.612 M	0.387 M	0.373 M	0.441 M	0.588 M	0.604 M
Chromium	<0.9 mg/kg	TM181		7.75 M	5.43 M	6.11 M	6.63 M	7.53 M	6.68 M
Copper	<1.4 mg/kg	TM181		35.5 M	21.9 M	26.6 M	41.4 M	40.2 M	123 M
Lead	<0.7 mg/kg	TM181		39.2 M	33.8 M	46.5 M	44.6 M	54.8 M	85.5 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		15 M	7.58 M	7.86 M	8.25 M	9.48 M	9.19 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		10.9 #	11.5 #	13.4 #	12.9 #	15.1 #	13.8 #
Zinc	<1.9 mg/kg	TM181		135 M	89.4 M	112 M	107 M	152 M	253 M
Soil Organic Matter (SOM)	<0.1 %	TM321				2.54		1.78	

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-7	SP79-1	SP79-2	SP80-1	SP80-2	SP80-3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669182	6669183	6669184	6669185	6669186	6669187
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132						3.59 #	
pH	1 pH Units	TM133		8.3 M	7.68 M	7.47 M	8.31 M	8.19 M	8.35 M
Arsenic	<0.6 mg/kg	TM181		19.2 M	17.1 M	14.5 M	15.8 M	22.8 M	29.8 M
Cadmium	<0.02 mg/kg	TM181		0.89 M	0.952 M	0.614 M	0.699 M	1.53 M	1.11 M
Chromium	<0.9 mg/kg	TM181		12.5 M	17.2 M	17.7 M	11.8 M	16.7 M	15.3 M
Copper	<1.4 mg/kg	TM181		60.7 M	46.3 M	28.9 M	37 M	100 M	83.7 M
Lead	<0.7 mg/kg	TM181		109 M	87.3 M	34.5 M	66 M	312 M	324 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	0.511 M	<0.14 M	<0.14 M	0.147 M	1.73 M
Nickel	<0.2 mg/kg	TM181		19.4 M	25.8 M	23.1 M	18 M	28.2 M	19.8 M
Selenium	<1 mg/kg	TM181		<1 #	1.11 #	1.01 #	<1 #	1.1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		17.1 #	21.1 #	25.2 #	13 #	21.1 #	21.1 #
Zinc	<1.9 mg/kg	TM181		269 M	179 M	98.6 M	128 M	622 M	640 M
Soil Organic Matter (SOM)	<0.1 %	TM321		3.5	2.73	2.44	2.26		3.35

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP80-4	SP80-5	SP80-6	SP80-7	SP80-8	SP80-9
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669188	6669189	6669191	6669193	6669194	6669195
			AGS Reference						
pH	1 pH Units	TM133		8.22 M	7.76 M	8.31 M	8.11 M	8.43 M	8.04 M
Arsenic	<0.6 mg/kg	TM181		20.2 M	15.6 M	56.6 M	17.2 M	16.1 M	13.6 M
Cadmium	<0.02 mg/kg	TM181		0.748 M	0.851 M	1.53 M	0.916 M	0.754 M	0.738 M
Chromium	<0.9 mg/kg	TM181		14.8 M	16.6 M	18.8 M	28.6 M	13.5 M	14.4 M
Copper	<1.4 mg/kg	TM181		60.9 M	38.4 M	258 M	37.6 M	36.8 M	28.2 M
Lead	<0.7 mg/kg	TM181		67.2 M	71.6 M	271 M	74 M	72 M	44.7 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	0.532 M	<0.14 M	0.153 M	
Nickel	<0.2 mg/kg	TM181		23.4 M	27.9 M	23.7 M	24.2 M	23.1 M	24 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	1.07 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		16.4 #	18.3 #	22.7 #	19.7 #	14.4 #	14.2 #
Zinc	<1.9 mg/kg	TM181		186 M	176 M	818 M	153 M	200 M	137 M
Soil Organic Matter (SOM)	<0.1 %	TM321		1.44	2.47	3.47	1.7	2.39	1.72

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-28	SP66-29	SP66-30	SP66-31	SP66-32	SP66-33
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669169	6669170	6669171	6669172	6669173	6669174
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		6.21 #				4.71 #	
pH	1 pH Units	TM133		7.84 M	7.61 M	7.46 M	7.99 M	7.62 M	7.81 M
Arsenic	<0.6 mg/kg	TM181		11.3 M	9.15 M	11.5 M	46.2 M	11.7 M	10.5 M
Cadmium	<0.02 mg/kg	TM181		0.816 M	0.785 M	0.814 M	0.775 M	0.791 M	0.872 M
Chromium	<0.9 mg/kg	TM181		17.9 M	19.7 M	19.1 M	17.5 M	18.7 M	18.8 M
Copper	<1.4 mg/kg	TM181		18.3 M	20.7 M	25.9 M	17.3 M	21.4 M	22.8 M
Lead	<0.7 mg/kg	TM181		20.1 M	19.5 M	24.8 M	17.9 M	23 M	21.1 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		47.1 M	41.2 M	43.9 M	44.5 M	54.5 M	43.5 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	1.16 #	<1 #
Vanadium	<0.2 mg/kg	TM181		16.5 #	15.1 #	15.9 #	15.6 #	16.8 #	16.3 #
Zinc	<1.9 mg/kg	TM181		88.6 M	85.1 M	91.3 M	83.1 M	91.8 M	92.1 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R: SP80-10
			Depth (m): .
			Sample Type: Soil/Solid
			Date Sampled: 11/12/2012
			Sample Time: .
			Date Received: 14/12/2012
			SDG Ref: 121215-14
			Lab Sample No.(s): 6669196
			AGS Reference:
pH	1 pH Units	TM133	8.24 M
Arsenic	<0.6 mg/kg	TM181	18.7 M
Cadmium	<0.02 mg/kg	TM181	0.851 M
Chromium	<0.9 mg/kg	TM181	16.6 M
Copper	<1.4 mg/kg	TM181	42.9 M
Lead	<0.7 mg/kg	TM181	71.3 M
Mercury	<0.14 mg/kg	TM181	<0.14 M
Nickel	<0.2 mg/kg	TM181	26.2 M
Selenium	<1 mg/kg	TM181	<1 #
Vanadium	<0.2 mg/kg	TM181	15.5 #
Zinc	<1.9 mg/kg	TM181	191 M
Soil Organic Matter (SOM)	<0.1 %	TM321	1.68

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-1	SP78-2	SP78-3	SP78-4	SP78-5	SP78-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669175	6669176	6669177	6669179	6669180	6669181
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		107	108	108	104	104	109
Acenaphthene-d10 % recovery**	%	TM218		106	109	111	104	105	108
Phenanthrene-d10 % recovery**	%	TM218		106	108	111	104	104	108
Chrysene-d12 % recovery**	%	TM218		100	104	106	101	102	104
Perylene-d12 % recovery**	%	TM218		108	115	115	113	110	114
Naphthalene	<9 µg/kg	TM218		68.8 M	71.4 M	173 M	68.6 M	102 M	442 M
Acenaphthylene	<12 µg/kg	TM218		<24 M	<24 M	21.5 M	23.5 M	23.2 M	46.9 M
Acenaphthene	<8 µg/kg	TM218		21.8 M	21.5 M	18.8 M	9.86 M	14.9 M	64.9 M
Fluorene	<10 µg/kg	TM218		28.3 M	26.5 M	28.7 M	23.1 M	25.8 M	67.1 M
Phenanthrene	<15 µg/kg	TM218		99.4 M	108 M	120 M	88.9 M	149 M	194 M
Anthracene	<16 µg/kg	TM218		<32 M	42.1 M	48.9 M	43.7 M	62.2 M	89.2 M
Fluoranthene	<17 µg/kg	TM218		209 M	222 M	219 M	192 M	326 M	208 M
Pyrene	<15 µg/kg	TM218		225 M	255 M	229 M	204 M	298 M	229 M
Benz(a)anthracene	<14 µg/kg	TM218		208 M	160 M	167 M	167 M	267 M	167 M
Chrysene	<10 µg/kg	TM218		169 M	145 M	142 M	120 M	240 M	131 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		351 M	414 M	462 M	324 M	407 M	299 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		133 M	146 M	166 M	112 M	156 M	144 M
Benzo(a)pyrene	<15 µg/kg	TM218		422 M	437 M	465 M	424 M	441 M	492 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		280 M	295 M	343 M	301 M	393 M	406 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		80.9 M	85.9 M	101 M	85.9 M	104 M	114 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		362 M	389 M	427 M	393 M	527 M	565 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		2660	2820	3130	2580	3540	3660

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-7	SP79-1	SP79-2	SP80-1	SP80-2	SP80-3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669182	6669183	6669184	6669185	6669186	6669187
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		106	107	105	102	104	106
Acenaphthene-d10 % recovery**	%	TM218		103	108	105	99.7	105	106
Phenanthrene-d10 % recovery**	%	TM218		105	109	107	102	104	108
Chrysene-d12 % recovery**	%	TM218		96	104	96.5	93.4	101	101
Perylene-d12 % recovery**	%	TM218		105	116	101	97.1	110	111
Naphthalene	<9 µg/kg	TM218		98.9 M	96.5 M	43.7 M	493 M	88.3 M	170 M
Acenaphthylene	<12 µg/kg	TM218		44.3 M	68.8 M	14 M	90.7 M	62.4 M	100 M
Acenaphthene	<8 µg/kg	TM218		39.1 M	193 M	10.6 M	189 M	38.7 M	40.3 M
Fluorene	<10 µg/kg	TM218		48.2 M	230 M	24.4 M	262 M	76.8 M	80.9 M
Phenanthrene	<15 µg/kg	TM218		242 M	1010 M	73.7 M	809 M	364 M	427 M
Anthracene	<16 µg/kg	TM218		84.7 M	313 M	26.8 M	333 M	130 M	146 M
Fluoranthene	<17 µg/kg	TM218		449 M	1660 M	51.8 M	527 M	641 M	643 M
Pyrene	<15 µg/kg	TM218		410 M	1640 M	148 M	519 M	601 M	612 M
Benz(a)anthracene	<14 µg/kg	TM218		343 M	1410 M	39.3 M	244 M	464 M	489 M
Chrysene	<10 µg/kg	TM218		321 M	1470 M	54.5 M	232 M	466 M	461 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		495 M	1900 M	98.4 M	324 M	669 M	808 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		218 M	776 M	45.4 M	130 M	270 M	317 M
Benzo(a)pyrene	<15 µg/kg	TM218		551 M	1980 M	70.1 M	289 M	603 M	795 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		424 M	1080 M	43.7 M	183 M	406 M	585 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		112 M	388 M	<23 M	66.7 M	136 M	178 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		623 M	1450 M	89.6 M	258 M	545 M	848 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		4500	15700	834	4950	5560	6700

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP80-4	SP80-5	SP80-6	SP80-7	SP80-8	SP80-9
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669188	6669189	6669191	6669193	6669194	6669195
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		104	106	109	100	97.5	89
Acenaphthene-d10 % recovery**	%	TM218		105	105	111	102	96.9	88.7
Phenanthrene-d10 % recovery**	%	TM218		102	107	111	104	98.7	90.2
Chrysene-d12 % recovery**	%	TM218		101	97.4	103	99.6	90.6	83.6
Perylene-d12 % recovery**	%	TM218		110	106	109	108	94.5	86.6
Naphthalene	<9 µg/kg	TM218		112 M	114 M	26.2 M	72 M	57.9 M	55.2 M
Acenaphthylene	<12 µg/kg	TM218		66 M	306 M	15.4 M	56.7 M	151 M	14.9 M
Acenaphthene	<8 µg/kg	TM218		39 M	24.2 M	<8 M	20.2 M	37.2 M	13.8 M
Fluorene	<10 µg/kg	TM218		91.7 M	80.9 M	<10 M	51.6 M	89.6 M	34.5 M
Phenanthrene	<15 µg/kg	TM218		619 M	891 M	53.4 M	428 M	718 M	160 M
Anthracene	<16 µg/kg	TM218		194 M	237 M	<16 M	115 M	183 M	32.8 M
Fluoranthene	<17 µg/kg	TM218		938 M	1520 M	39.5 M	840 M	1010 M	140 M
Pyrene	<15 µg/kg	TM218		847 M	1140 M	33 M	694 M	878 M	151 M
Benz(a)anthracene	<14 µg/kg	TM218		656 M	750 M	<14 M	502 M	548 M	85.5 M
Chrysene	<10 µg/kg	TM218		590 M	632 M	14.5 M	446 M	552 M	109 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		898 M	894 M	24.1 M	644 M	737 M	133 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		327 M	380 M	<14 M	224 M	332 M	54.5 M
Benzo(a)pyrene	<15 µg/kg	TM218		647 M	747 M	23.3 M	540 M	590 M	115 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		404 M	556 M	<18 M	368 M	366 M	95.8 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		159 M	173 M	<23 M	104 M	126 M	30.4 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		499 M	717 M	<24 M	482 M	437 M	156 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		7090	9160	229	5590	6810	1380

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			SP66-28	.	Soil/Solid	12/12/2012	.	14/12/2012	121215-14	6669169	
			SP66-29	.	Soil/Solid	12/12/2012	.	14/12/2012	121215-14	6669170	
			SP66-30	.	Soil/Solid	12/12/2012	.	14/12/2012	121215-14	6669171	
			SP66-31	.	Soil/Solid	12/12/2012	.	14/12/2012	121215-14	6669172	
			SP66-32	.	Soil/Solid	12/12/2012	.	14/12/2012	121215-14	6669173	
			SP66-33	.	Soil/Solid	12/12/2012	.	14/12/2012	121215-14	6669174	
Naphthalene-d8 % recovery**	%	TM218	101	97.1	102	98	102	98.6			
Acenaphthene-d10 % recovery**	%	TM218	99.4	96.9	103	98.8	101	98.7			
Phenanthrene-d10 % recovery**	%	TM218	100	94.8	102	97.1	99.3	97.2			
Chrysene-d12 % recovery**	%	TM218	95.9	86.4	97.6	89.5	88.5	89.1			
Perylene-d12 % recovery**	%	TM218	100	84.2	105	89.7	93.8	88.6			
Naphthalene	<9 µg/kg	TM218	48.5 M	59.2 M	55.9 M	34.5 M	167 M	51.2 M			
Acenaphthylene	<12 µg/kg	TM218	<12 M	<12 M	<12 M	<12 M	<12 M	<12 M			
Acenaphthene	<8 µg/kg	TM218	<8 M	23.7 M	<8 M	23.3 M	20.3 M	23.8 M			
Fluorene	<10 µg/kg	TM218	25.9 M	14.9 M	20 M	18.1 M	23.9 M	17.8 M			
Phenanthrene	<15 µg/kg	TM218	243 M	437 M	357 M	313 M	295 M	449 M			
Anthracene	<16 µg/kg	TM218	<16 M	<16 M	<16 M	<16 M	<16 M	<16 M			
Fluoranthene	<17 µg/kg	TM218	73.7 M	63.2 M	89.4 M	70.6 M	69 M	70.1 M			
Pyrene	<15 µg/kg	TM218	65.9 M	42.8 M	70.6 M	56.8 M	57.8 M	52.7 M			
Benz(a)anthracene	<14 µg/kg	TM218	42.7 M	33.7 M	57.9 M	42.5 M	35.4 M	33.3 M			
Chrysene	<10 µg/kg	TM218	116 M	187 M	172 M	147 M	106 M	191 M			
Benzo(b)fluoranthene	<15 µg/kg	TM218	109 M	140 M	175 M	122 M	92.8 M	149 M			
Benzo(k)fluoranthene	<14 µg/kg	TM218	21.7 M	<14 M	35.2 M	16.6 M	17.9 M	17.1 M			
Benzo(a)pyrene	<15 µg/kg	TM218	34.1 M	18.9 M	74.2 M	26.4 M	29.5 M	26.4 M			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	24 M	<18 M	46.5 M	22.3 M	<18 M	24.5 M			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23 M	<23 M	28.1 M	<23 M	<23 M	<23 M			
Benzo(g,h,i)perylene	<24 µg/kg	TM218	33.1 M	<24 M	59.5 M	32.1 M	30.3 M	33.8 M			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	838	1020	1240	926	945	1140			

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	SP80-10
Depth (m)	.
Sample Type	Soil/Solid
Date Sampled	11/12/2012
Sample Time	.
Date Received	14/12/2012
SDG Ref	121215-14
Lab Sample No.(s)	6669196
AGS Reference	

Component	LOD/Units	Method	
Naphthalene-d8 % recovery**	%	TM218	109
Acenaphthene-d10 % recovery**	%	TM218	112
Phenanthrene-d10 % recovery**	%	TM218	108
Chrysene-d12 % recovery**	%	TM218	102
Perylene-d12 % recovery**	%	TM218	111
Naphthalene	<9 µg/kg	TM218	89.1 M
Acenaphthylene	<12 µg/kg	TM218	44.3 M
Acenaphthene	<8 µg/kg	TM218	28.3 M
Fluorene	<10 µg/kg	TM218	62.1 M
Phenanthrene	<15 µg/kg	TM218	268 M
Anthracene	<16 µg/kg	TM218	104 M
Fluoranthene	<17 µg/kg	TM218	378 M
Pyrene	<15 µg/kg	TM218	556 M
Benz(a)anthracene	<14 µg/kg	TM218	295 M
Chrysene	<10 µg/kg	TM218	314 M
Benzo(b)fluoranthene	<15 µg/kg	TM218	672 M
Benzo(k)fluoranthene	<14 µg/kg	TM218	207 M
Benzo(a)pyrene	<15 µg/kg	TM218	485 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	281 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	109 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	366 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4260

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-1	SP78-2	SP78-3	SP78-4	SP78-5	SP78-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669175	6669176	6669177	6669179	6669180	6669181
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		109	55	59	56	61	44
GRO >C5-C12	<44 µg/kg	TM089		8040	2820	3850	207	126	1050
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		5.75 M	<2 M	<2 M	<2 M	<2 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		10.4 M	3.39 M	<3 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		71.3 M	12.4 M	13.8 M	<6 M	9.44 M	<6 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	3.54 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		71.3	12.4	13.8	<9	13	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		87.5	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		71.3	18.1	23	<10	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		258	63.3	80.5	24.9	26	17.3
Aliphatics >C8-C10	<10 µg/kg	TM089		610	108	212	41.8	24.8	116
Aliphatics >C10-C12	<10 µg/kg	TM089		3960	1520	2020	57.6	20.1	495
Aliphatics >C12-C16	<100 µg/kg	TM173		46700	62000	115000	58900	24900	336000
Aliphatics >C16-C21	<100 µg/kg	TM173		66500	93100	155000	85000	68800	236000
Aliphatics >C21-C35	<100 µg/kg	TM173		142000	303000	271000	172000	170000	509000
Aliphatics >C35-C44	<100 µg/kg	TM173		43000	49900	82700	54800	64300	156000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		298000	508000	624000	370000	329000	1240000
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		488	88.1	158	35	33	79.4
Aromatics >EC10-EC12	<10 µg/kg	TM089		2640	1020	1350	38.4	13	329
Aromatics >EC12-EC16	<100 µg/kg	TM173		10900	9890	7040	10400	4890	78800
Aromatics >EC16-EC21	<100 µg/kg	TM173		51900	57200	38900	51500	30200	120000
Aromatics >EC21-EC35	<100 µg/kg	TM173		268000	345000	225000	265000	198000	552000
Aromatics >EC35-EC44	<100 µg/kg	TM173		149000	205000	128000	146000	103000	287000
Aromatics >EC40-EC44	<100 µg/kg	TM173		62000	91000	51700	60800	44400	124000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		480000	618000	399000	473000	336000	1040000
Total Aliphatics >C5-35	<100 µg/kg	TM173		260000	460000	544000	316000	264000	1080000
Total Aromatics >C5-35	<100 µg/kg	TM173		334000	414000	273000	327000	233000	751000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		593000	874000	816000	642000	497000	1830000

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend		Customer Sample R	SP78-1	SP78-2	SP78-3	SP78-4	SP78-5	SP78-6
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	.	.	.	.	.	.
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% 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	Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
		SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
(F)	Trigger breach confirmed	Lab Sample No.(s)	6669175	6669176	6669177	6669179	6669180	6669181
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	786000	1130000	1030000	843000	664000	2280000

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-7	SP79-1	SP79-2	SP80-1	SP80-2	SP80-3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669182	6669183	6669184	6669185	6669186	6669187
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		110	33	91	77	86	40
GRO >C5-C12	<44 µg/kg	TM089		836	181	4280	3090	1620	4070
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		2.4 M	2.3 M	<2 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		25.2 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	9.99 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		25.2	<9	<9	<9	9.99	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		27.6	<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		43.2	<10	13.9	26.2	<10	11.8
Aliphatics >C6-C8	<10 µg/kg	TM089		161	17.3	42.9	69.5	38.9	57.8
Aliphatics >C8-C10	<10 µg/kg	TM089		202	23	386	423	283	690
Aliphatics >C10-C12	<10 µg/kg	TM089		157	66.7	2140	1370	653	1710
Aliphatics >C12-C16	<100 µg/kg	TM173		20400	159000	137000	111000	49300	65000
Aliphatics >C16-C21	<100 µg/kg	TM173		76900	362000	337000	256000	196000	213000
Aliphatics >C21-C35	<100 µg/kg	TM173		205000	598000	450000	267000	388000	315000
Aliphatics >C35-C44	<100 µg/kg	TM173		54400	214000	125000	73300	119000	85000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		356000	1330000	1050000	708000	752000	678000
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		163	17.3	260	284	199	460
Aromatics >EC10-EC12	<10 µg/kg	TM089		106	44.9	1430	914	435	1140
Aromatics >EC12-EC16	<100 µg/kg	TM173		5960	28600	42100	18400	9800	10600
Aromatics >EC16-EC21	<100 µg/kg	TM173		49700	162000	232000	115000	80600	96600
Aromatics >EC21-EC35	<100 µg/kg	TM173		295000	603000	502000	336000	414000	460000
Aromatics >EC35-EC44	<100 µg/kg	TM173		159000	315000	227000	173000	203000	282000
Aromatics >EC40-EC44	<100 µg/kg	TM173		67400	137000	97000	74400	87800	126000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		510000	1110000	1000000	642000	708000	849000
Total Aliphatics >C5-35	<100 µg/kg	TM173		303000	1120000	927000	636000	634000	595000
Total Aromatics >C5-35	<100 µg/kg	TM173		351000	793000	777000	470000	505000	569000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		654000	1910000	1700000	1110000	1140000	1160000

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend		Customer Sample R	SP78-7	SP79-1	SP79-2	SP80-1	SP80-2	SP80-3
#	ISO17025 accredited.							
M	*m*CERTS 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							
1-4&+§@	Sample deviation (see appendix)							
		Depth (m)	.	.	.	.	.	.
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
		Sample Time	.	.	.	.	.	.
		Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
		SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
		Lab Sample No.(s)	6669182	6669183	6669184	6669185	6669186	6669187
		AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	867000	2440000	2060000	1350000	1460000	1530000

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP80-4	SP80-5	SP80-6	SP80-7	SP80-8	SP80-9
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669188	6669189	6669191	6669193	6669194	6669195
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		52	47	39	90	50	70
GRO >C5-C12	<44 µg/kg	TM089		8000	16200	140	2140	6290	9070
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	16.7 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	<2 M	<2 M	<2 M	<2 M	<2 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	5.75 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	27.6 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9	27.6	<9	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	33.4	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		11.1	26.6	<10	11.5	<10	11.2
Aliphatics >C6-C8	<10 µg/kg	TM089		129	2050	15.2	54.1	155	296
Aliphatics >C8-C10	<10 µg/kg	TM089		1480	4030	12.9	352	1220	1790
Aliphatics >C10-C12	<10 µg/kg	TM089		3240	4200	55	868	2450	3470
Aliphatics >C12-C16	<100 µg/kg	TM173		79200	63600	112000	154000	112000	53100
Aliphatics >C16-C21	<100 µg/kg	TM173		302000	195000	420000	367000	290000	161000
Aliphatics >C21-C35	<100 µg/kg	TM173		441000	309000	914000	394000	341000	215000
Aliphatics >C35-C44	<100 µg/kg	TM173		94200	111000	283000	97500	88800	50300
Total Aliphatics >C12-C44	<100 µg/kg	TM173		916000	678000	1730000	1010000	832000	480000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	16.7	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		986	2690	10.5	269	813	1190
Aromatics >EC10-EC12	<10 µg/kg	TM089		2160	2800	36.3	580	1630	2310
Aromatics >EC12-EC16	<100 µg/kg	TM173		12400	12000	22000	16800	14600	7800
Aromatics >EC16-EC21	<100 µg/kg	TM173		89900	84600	202000	118000	115000	67600
Aromatics >EC21-EC35	<100 µg/kg	TM173		321000	325000	1180000	372000	378000	290000
Aromatics >EC35-EC44	<100 µg/kg	TM173		130000	175000	561000	206000	194000	153000
Aromatics >EC40-EC44	<100 µg/kg	TM173		56100	75500	245000	95000	86000	66800
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		553000	597000	1970000	712000	702000	519000
Total Aliphatics >C5-35	<100 µg/kg	TM173		827000	578000	1450000	917000	747000	435000
Total Aromatics >C5-35	<100 µg/kg	TM173		426000	427000	1410000	507000	511000	369000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		1250000	1000000	2850000	1420000	1260000	804000

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend		Customer Sample R	SP80-4	SP80-5	SP80-6	SP80-7	SP80-8	SP80-9
#	ISO17025 accredited.							
M	*m*CERTS 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							
1-4&+§@	Sample deviation (see appendix)							
		Depth (m)	.	.	.	.	.	.
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
		Sample Time	.	.	.	.	.	.
		Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
		SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
		Lab Sample No.(s)	6669188	6669189	6669191	6669193	6669194	6669195
		AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1480000	1290000	3700000	1730000	1540000	1010000

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend		Customer Sample R	SP66-28	SP66-29	SP66-30	SP66-31	SP66-32	SP66-33
#	ISO17025 accredited.							
M	*m*CERTS 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							
1-4&+§@	Sample deviation (see appendix)							
		Depth (m)	.	.	.	.	.	.
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
		Sample Time	.	.	.	.	.	.
		Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
		SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
		Lab Sample No.(s)	6669169	6669170	6669171	6669172	6669173	6669174
		AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	15	18	23	21	23	26
GRO >C5-C12	<44 µg/kg	TM089	67.7	149	141	180	83.2	135
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089	<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089	3.23 M	2.13 M	2.2 M	2.17 M	2.16 M	2.18 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	6.45 M	6.4 M	7.69 M	6.5 M	7.57 M	7.64 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	17.1	13.2	16.2	<10	17.5
Aliphatics >C6-C8	<10 µg/kg	TM089	28	72.5	56	73.6	36.8	75.3
Aliphatics >C8-C10	<10 µg/kg	TM089	<10	20.3	14.3	21.7	<10	12
Aliphatics >C10-C12	<10 µg/kg	TM089	<10	<10	20.9	24.9	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173	4190	5440	3720	4820	3860	6060
Aliphatics >C16-C21	<100 µg/kg	TM173	9240	6200	6850	6770	7490	6260
Aliphatics >C21-C35	<100 µg/kg	TM173	34000	18500	9530	14500	11900	13500
Aliphatics >C35-C44	<100 µg/kg	TM173	3530	2970	<100	2250	<100	2380
Total Aliphatics >C12-C44	<100 µg/kg	TM173	50900	33100	20100	28300	23200	28100
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	12.9	22.4	19.8	22.7	15.1	17.5
Aromatics >EC10-EC12	<10 µg/kg	TM089	<10	<10	13.2	16.2	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173	3440	3310	2980	4620	5050	4910
Aromatics >EC16-EC21	<100 µg/kg	TM173	4580	3460	4050	6620	6650	6120
Aromatics >EC21-EC35	<100 µg/kg	TM173	13000	10900	9020	13200	13800	13800
Aromatics >EC35-EC44	<100 µg/kg	TM173	3100	2030	2830	4810	6980	6060
Aromatics >EC40-EC44	<100 µg/kg	TM173	850	<100	745	1810	3020	2450
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	24100	19700	18900	29300	32500	30900
Total Aliphatics >C5-35	<100 µg/kg	TM173	47400	30300	20200	26200	23300	25900
Total Aromatics >C5-35	<100 µg/kg	TM173	21000	17700	16100	24500	25600	24900
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	68500	48000	36300	50800	48800	50700

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend		Customer Sample R	SP66-28	SP66-29	SP66-30	SP66-31	SP66-32	SP66-33
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	.	.	.	.	.	.
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
*	Subcontracted test.	Sample Time	.	.	.	.	.	.
**	% 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	Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
		SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
(F)	Trigger breach confirmed	Lab Sample No.(s)	6669169	6669170	6669171	6669172	6669173	6669174
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	75100	52900	39100	57800	55800	59200

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	SP80-10
Depth (m)	.
Sample Type	Soil/Solid
Date Sampled	11/12/2012
Sample Time	.
Date Received	14/12/2012
SDG Ref	121215-14
Lab Sample No.(s)	6669196
AGS Reference	

Component	LOD/Units	Method	
GRO Surrogate % recovery**	%	TM089	45
GRO >C5-C12	<44 µg/kg	TM089	521
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 #
Benzene	<10 µg/kg	TM089	<10 M
Toluene	<2 µg/kg	TM089	<2 M
Ethylbenzene	<3 µg/kg	TM089	<3 M
m,p-Xylene	<6 µg/kg	TM089	<6 M
o-Xylene	<3 µg/kg	TM089	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9
sum of detected BTEX by GC	<24 µg/kg	TM089	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	<10
Aliphatics >C6-C8	<10 µg/kg	TM089	16.7
Aliphatics >C8-C10	<10 µg/kg	TM089	25.5
Aliphatics >C10-C12	<10 µg/kg	TM089	268
Aliphatics >C12-C16	<100 µg/kg	TM173	109000
Aliphatics >C16-C21	<100 µg/kg	TM173	416000
Aliphatics >C21-C35	<100 µg/kg	TM173	508000
Aliphatics >C35-C44	<100 µg/kg	TM173	141000
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1170000
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089	17.8
Aromatics >EC10-EC12	<10 µg/kg	TM089	179
Aromatics >EC12-EC16	<100 µg/kg	TM173	17100
Aromatics >EC16-EC21	<100 µg/kg	TM173	140000
Aromatics >EC21-EC35	<100 µg/kg	TM173	436000
Aromatics >EC35-EC44	<100 µg/kg	TM173	183000
Aromatics >EC40-EC44	<100 µg/kg	TM173	80400
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	777000
Total Aliphatics >C5-35	<100 µg/kg	TM173	1030000
Total Aromatics >C5-35	<100 µg/kg	TM173	593000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	1630000

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

TPH CWG (S)

Results Legend		Customer Sample R	SP80-10
#	ISO17025 accredited.		
M	*m*CERTS 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		
1-4&+§@	Sample deviation (see appendix)		
		Depth (m)	.
		Sample Type	Soil/Solid
		Date Sampled	11/12/2012
		Sample Time	.
		Date Received	14/12/2012
		SDG Ref	121215-14
		Lab Sample No.(s)	6669196
		AGS Reference	

Component	LOD/Units	Method	
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1950000

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-1	SP78-2	SP78-3	SP78-4	SP78-5	SP78-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669175	6669176	6669177	6669179	6669180	6669181
			AGS Reference						
Dibromofluoromethane**	%	TM116		100	107	108	106	107	109
Toluene-d8**	%	TM116		95	100	95.2	97.1	96.9	100
4-Bromofluorobenzene**	%	TM116		125	102	121	122	123	109
Dichlorodifluoromethane	<4 µg/kg	TM116		<8 M	<80 M	<8 M	<8 M	<8 M	<80 M
Chloromethane	<7 µg/kg	TM116		<14	<140	<14	<14	<14	<140
Vinyl Chloride	<10 µg/kg	TM116		<20	<200	<20	<20	<20	<200
Bromomethane	<13 µg/kg	TM116		<26 M	<260 M	<26 M	<26 M	<26 M	<260 M
Chloroethane	<14 µg/kg	TM116		<28 M	<280 M	<28 M	<28 M	<28 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<12 M	<120 M	<12 M	<12 M	<12 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<20 #	<200 #	<20 #	<20 #	<20 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<14 M	<140 M	<14 M	<14 M	<14 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<20 #	<200 #	<20 #	<20 #	<20 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<22 M	<220 M	<22 M	<22 M	<22 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<22 M	<220 M	<22 M	<22 M	<22 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<16 M	<160 M	<16 M	<16 M	<16 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<10 M	<100 M	<10 M	<10 M	<10 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<240 M	<24 M	<24 M	<24 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<28 M	<280 M	<28 M	<28 M	<28 M	<280 M
Chloroform	<8 µg/kg	TM116		<16 M	<160 M	<16 M	<16 M	<16 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<14 M	<140 M	<14 M	<14 M	<14 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<22 M	<220 M	<22 M	<22 M	<22 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<28 M	<280 M	<28 M	<28 M	<28 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<10 M	<100 M	<10 M	<10 M	<10 M	<100 M
Benzene	<9 µg/kg	TM116		<18 M	<180 M	<18 M	<18 M	<18 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<18 M	<180 M	<18 M	<18 M	<18 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<240 M	<24 M	<24 M	<24 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<18 M	<180 M	<18 M	<18 M	<18 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<14 M	<140 M	<14 M	<14 M	<14 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<28 M	<280 M	<28 M	<28 M	<28 M	<280 M
Toluene	<5 µg/kg	TM116		19.9 M	<100 M	11.7 M	<10 M	<10 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<28	<280	<28	<28	<28	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<20 M	<200 M	<20 M	<20 M	<20 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-1	SP78-2	SP78-3	SP78-4	SP78-5	SP78-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669175	6669176	6669177	6669179	6669180	6669181
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<14 #	<140 #	<14 #	<14 #	<14 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<10 M	<100 M	<10 M	<10 M	<10 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<26 M	<260 M	<26 M	<26 M	<26 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<24 M	<240 M	<24 M	<24 M	<24 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<10 M	<100 M	<10 M	<10 M	<10 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<20 M	<200 M	<20 M	<20 M	<20 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		27.7 M	<80 M	22.5 M	10.2 M	13.7 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		132 #	<280 #	96.5 #	37.7 #	58.2 #	<280 #
o-Xylene	<10 µg/kg	TM116		23.7 M	<200 M	<20 M	<20 M	<20 M	<200 M
Styrene	<10 µg/kg	TM116		<20 M	<200 M	<20 M	<20 M	<20 M	<200 M
Bromoform	<10 µg/kg	TM116		<20 M	<200 M	<20 M	<20 M	<20 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<10 M	<100 M	<10 M	<10 M	<10 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<20 #	<200 #	<20 #	<20 #	<20 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<34 M	<340 M	<34 M	<34 M	<34 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<20 M	<200 M	<20 M	<20 M	<20 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<22 M	<220 M	<22 M	<22 M	<22 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<18 M	<180 M	<18 M	<18 M	<18 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<16 #	<160 #	<16 #	<16 #	<16 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<24 M	<240 M	<24 M	<24 M	<24 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<24 #	<240 #	<24 #	<24 #	<24 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		116 #	<180 #	88.6 #	43.2 #	<18 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<20 M	<200 M	<20 M	<20 M	<20 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<22 M	<220 M	<22 M	<22 M	<22 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<12 M	<120 M	<12 M	<12 M	<12 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<10 M	<100 M	<10 M	<10 M	<10 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<20 M	<200 M	<20 M	<20 M	<20 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<24 M	<240 M	<24 M	<24 M	<24 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<28 M	<280 M	<28 M	<28 M	<28 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<30	<300	<30	<30	<30	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<12 #	<120 #	<12 #	<12 #	<12 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<24	<240	<24	<24	<24	<240
Naphthalene	<13 µg/kg	TM116		<26 M	<260 M	<26 M	<26 M	<26 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-1	SP78-2	SP78-3	SP78-4	SP78-5	SP78-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669175	6669176	6669177	6669179	6669180	6669181
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<12 M	<120 M	<12 M	<12 M	<12 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-7	SP79-1	SP79-2	SP80-1	SP80-2	SP80-3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669182	6669183	6669184	6669185	6669186	6669187
			AGS Reference						
Dibromofluoromethane**	%	TM116		102	107	104	103	102	107
Toluene-d8**	%	TM116		96.1	100	99.1	97	95.8	100
4-Bromofluorobenzene**	%	TM116		123	106	105	112	123	107
Dichlorodifluoromethane	<4 µg/kg	TM116		<8 M	<80 M	<80 M	<80 M	<8 M	<80 M
Chloromethane	<7 µg/kg	TM116		<14	<140	<140	<140	<14	<140
Vinyl Chloride	<10 µg/kg	TM116		<20	<200	<200	<200	<20	<200
Bromomethane	<13 µg/kg	TM116		<26 M	<260 M	<260 M	<260 M	<26 M	<260 M
Chloroethane	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<280 M	<28 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<12 M	<120 M	<120 M	<120 M	<12 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<20 #	<200 #	<200 #	<200 #	<20 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<14 M	<140 M	<140 M	<140 M	<14 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<20 #	<200 #	<200 #	<200 #	<20 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<220 M	<22 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<220 M	<22 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<16 M	<160 M	<160 M	<160 M	<16 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<10 M	458 M	<100 M	<100 M	<10 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<240 M	<24 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<280 M	<28 M	<280 M
Chloroform	<8 µg/kg	TM116		<16 M	<160 M	<160 M	<160 M	<16 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<14 M	<140 M	<140 M	<140 M	<14 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<220 M	<22 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<280 M	<28 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<100 M	<10 M	<100 M
Benzene	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<180 M	<18 M	<180 M
Trichloroethene	<9 µg/kg	TM116		24.3 M	<180 M	<180 M	<180 M	<18 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<240 M	<24 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<180 M	<18 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<14 M	<140 M	<140 M	<140 M	<14 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<280 M	<28 M	<280 M
Toluene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<100 M	<10 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<28	<280	<280	<280	<28	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<200 M	<20 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-7	SP79-1	SP79-2	SP80-1	SP80-2	SP80-3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669182	6669183	6669184	6669185	6669186	6669187
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<14 #	<140 #	<140 #	<140 #	<14 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<100 M	<10 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<26 M	<260 M	<260 M	<260 M	<26 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<240 M	<24 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<100 M	<10 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<200 M	<20 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		12.3 M	<80 M	<80 M	<80 M	<8 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		46.9 #	<280 #	<280 #	<280 #	<28 #	<280 #
o-Xylene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<200 M	<20 M	<200 M
Styrene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<200 M	<20 M	<200 M
Bromoform	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<200 M	<20 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<100 M	<10 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<20 #	<200 #	<200 #	<200 #	<20 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<34 M	<340 M	<340 M	<340 M	<34 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<200 M	<20 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<220 M	<22 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<18 M	<180 M	<180 M	<180 M	<18 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		21.7 #	<160 #	<160 #	<160 #	<16 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<240 M	<24 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<24 #	<240 #	<240 #	<240 #	<24 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		42.7 #	<180 #	<180 #	<180 #	<18 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<200 M	<20 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<22 M	<220 M	<220 M	<220 M	<22 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<12 M	<120 M	<120 M	<120 M	<12 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<10 M	<100 M	<100 M	<100 M	<10 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<20 M	<200 M	<200 M	<200 M	<20 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<24 M	<240 M	<240 M	<240 M	<24 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<28 M	<280 M	<280 M	<280 M	<28 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<30	<300	<300	<300	<30	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<12 #	<120 #	<120 #	<120 #	<12 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<24	<240	<240	<240	<24	<240
Naphthalene	<13 µg/kg	TM116		<26 M	<260 M	<260 M	<260 M	<26 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP78-7	SP79-1	SP79-2	SP80-1	SP80-2	SP80-3
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669182	6669183	6669184	6669185	6669186	6669187
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<12 M	<120 M	<120 M	<120 M	<12 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP80-4	SP80-5	SP80-6	SP80-7	SP80-8	SP80-9
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669188	6669189	6669191	6669193	6669194	6669195
			AGS Reference						
Dibromofluoromethane**	%	TM116		105	107	108	101	106	103
Toluene-d8**	%	TM116		100	100	100	92.3	101	99.4
4-Bromofluorobenzene**	%	TM116		110	107	109	129	103	102
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<8 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<14	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<20	<200	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<26 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<28 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<12 M	<120 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<20 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<14 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<20 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<22 M	<220 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<22 M	<220 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<16 M	<160 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M	<100 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<24 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<28 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<16 M	<160 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<14 M	<140 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<22 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<28 M	<280 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<18 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<18 M	<180 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<24 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<18 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<14 M	<140 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<28 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	13 M	<100 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280	<28	<280	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<20 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP80-4	SP80-5	SP80-6	SP80-7	SP80-8	SP80-9
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669188	6669189	6669191	6669193	6669194	6669195
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<14 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<26 M	<260 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<24 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M	<100 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<20 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<8 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #	<28 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<20 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<20 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<20 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M	<100 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<20 #	<200 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M	<34 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<20 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<22 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<18 M	<180 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #	<16 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<24 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<24 #	<240 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<180 #	<18 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<20 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<22 M	<220 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<12 M	<120 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<10 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<20 M	<200 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<24 M	<240 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<28 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<30	<300	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<12 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<24	<240	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<26 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP80-4	SP80-5	SP80-6	SP80-7	SP80-8	SP80-9
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669188	6669189	6669191	6669193	6669194	6669195
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<12 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-28	SP66-29	SP66-30	SP66-31	SP66-32	SP66-33
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669169	6669170	6669171	6669172	6669173	6669174
			AGS Reference						
Dibromofluoromethane**	%	TM116		107	106	106	105	104	104
Toluene-d8**	%	TM116		100	99.6	99.6	99.3	99.6	99.3
4-Bromofluorobenzene**	%	TM116		110	108	112	107	108	108
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<140	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<200	<200	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<120 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<160 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<160 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280	<280	<280	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-28	SP66-29	SP66-30	SP66-31	SP66-32	SP66-33
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669169	6669170	6669171	6669172	6669173	6669174
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<140 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<260 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #	<280 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M	<340 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #	<160 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<240 #	<240 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<180 #	<180 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<120 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<300	<300	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<120 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<240	<240	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-28	SP66-29	SP66-30	SP66-31	SP66-32	SP66-33
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
			SDG Ref	121215-14	121215-14	121215-14	121215-14	121215-14	121215-14
			Lab Sample No.(s)	6669169	6669170	6669171	6669172	6669173	6669174
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Customer Sample R			SP80-10
Depth (m)			.
Sample Type			Soil/Solid
Date Sampled			11/12/2012
Sample Time			.
Date Received			14/12/2012
SDG Ref			121215-14
Lab Sample No.(s)			6669196
AGS Reference			
Component	**LOD/Units**	**Method**	
Dibromofluoromethane**	%	TM116	109
Toluene-d8**	%	TM116	101
4-Bromofluorobenzene**	%	TM116	103
Dichlorodifluoromethane	<4 µg/kg	TM116	<80 M
Chloromethane	<7 µg/kg	TM116	<140
Vinyl Chloride	<10 µg/kg	TM116	<200
Bromomethane	<13 µg/kg	TM116	<260 M
Chloroethane	<14 µg/kg	TM116	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116	<200 #
Carbon Disulphide	<7 µg/kg	TM116	<140 M
Dichloromethane	<10 µg/kg	TM116	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116	<240 M
Bromochloromethane	<14 µg/kg	TM116	<280 M
Chloroform	<8 µg/kg	TM116	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116	<220 M
Carbontetrachloride	<14 µg/kg	TM116	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116	<100 M
Benzene	<9 µg/kg	TM116	<180 M
Trichloroethene	<9 µg/kg	TM116	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116	<240 M
Dibromomethane	<9 µg/kg	TM116	<180 M
Bromodichloromethane	<7 µg/kg	TM116	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116	<280 M
Toluene	<5 µg/kg	TM116	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116	<200 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Customer Sample R	SP80-10
Depth (m)	.
Sample Type	Soil/Solid
Date Sampled	11/12/2012
Sample Time	.
Date Received	14/12/2012
SDG Ref	121215-14
Lab Sample No.(s)	6669196
AGS Reference	

Component	LOD/Units	Method	
1,3-Dichloropropane	<7 µg/kg	TM116	<140 #
Tetrachloroethene	<5 µg/kg	TM116	<100 M
Dibromochloromethane	<13 µg/kg	TM116	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116	<240 M
Chlorobenzene	<5 µg/kg	TM116	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116	<200 M
Ethylbenzene	<4 µg/kg	TM116	<80 M
p/m-Xylene	<14 µg/kg	TM116	<280 #
o-Xylene	<10 µg/kg	TM116	<200 M
Styrene	<10 µg/kg	TM116	<200 M
Bromoform	<10 µg/kg	TM116	<200 M
Isopropylbenzene	<5 µg/kg	TM116	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116	<340 M
Bromobenzene	<10 µg/kg	TM116	<200 M
Propylbenzene	<11 µg/kg	TM116	<220 M
2-Chlorotoluene	<9 µg/kg	TM116	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116	<160 #
4-Chlorotoluene	<12 µg/kg	TM116	<240 M
tert-Butylbenzene	<12 µg/kg	TM116	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116	<180 #
sec-Butylbenzene	<10 µg/kg	TM116	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116	<100 M
n-Butylbenzene	<10 µg/kg	TM116	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116	<240
Naphthalene	<13 µg/kg	TM116	<260 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

VOC MS (S)

Results Legend		Customer Sample R	SP80-10
#	ISO17025 accredited.		
M	*m*CERTS accredited.		
aq	Aqueous / settled sample.		
diss.filt	Dissolved / filtered sample.	Depth (m)	.
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid
*	Subcontracted test.	Date Sampled	11/12/2012
**	% 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	Sample Time	.
		Date Received	14/12/2012
		SDG Ref	121215-14
(F)	Trigger breach confirmed	Lab Sample No.(s)	6669196
1-4&+§@	Sample deviation (see appendix)	AGS Reference	

Component	LOD/Units	Method	
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Asbestos Identification - Soil

		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 Receieved SDG Original Sample Method Number	SP78-1 SOLID 11/12/2012 00:00:00 121215-14 6669175 TM048	02/01/13	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 Receieved SDG Original Sample Method Number	SP78-2 SOLID 11/12/2012 00:00:00 121215-14 6669176 TM048	02/01/13	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 Receieved SDG Original Sample Method Number	SP78-3 SOLID 11/12/2012 00:00:00 121215-14 6669177 TM048	02/01/13	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 Receieved SDG Original Sample Method Number	SP78-4 SOLID 11/12/2012 00:00:00 121215-14 6669179 TM048	02/01/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP78-5 SOLID 11/12/2012 00:00:00 121215-14 6669180 TM048	02/01/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

		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 Receieved SDG Original Sample Method Number	SP78-6 SOLID 11/12/2012 00:00:00 121215-14 6669181 TM048	02/01/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP78-7 SOLID 11/12/2012 00:00:00 121215-14 6669182 TM048	02/01/13	Kevin Bowron	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP79-1 SOLID 11/12/2012 00:00:00 121215-14 6669183 TM048	02/01/13	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 Receieved SDG Original Sample Method Number	SP79-2 SOLID 11/12/2012 00:00:00 121215-14 6669184 TM048	02/01/13	Kevin Bowron	Soil containing loose fibres and 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 Receieved SDG Original Sample Method Number	SP80-1 SOLID 11/12/2012 00:00:00 121215-14 6669185 TM048	02/01/13	Kevin Bowron	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 Receieved SDG Original Sample Method Number	SP80-2 SOLID 11/12/2012 00:00:00 121215-14 6669186 TM048	02/01/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

		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 Receieved SDG Original Sample Method Number	SP80-3 SOLID 11/12/2012 00:00:00 121215-14 6669187 TM048	02/01/13	Kevin Bowron	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 Receieved SDG Original Sample Method Number	SP80-4 SOLID 11/12/2012 00:00:00 121215-14 6669188 TM048	02/01/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP80-5 SOLID 11/12/2012 00:00:00 121215-14 6669189 TM048	02/01/13	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 Receieved SDG Original Sample Method Number	SP80-6 SOLID 11/12/2012 00:00:00 121215-14 6669191 TM048	02/01/13	Kevin Bowron	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP80-7 SOLID 11/12/2012 00:00:00 121215-14 6669193 TM048	02/01/13	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP80-8 SOLID 11/12/2012 00:00:00 121215-14 6669194 TM048	02/01/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

		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 Receieved SDG Original Sample Method Number	SP80-9 SOLID 11/12/2012 00:00:00 121215-14 6669195 TM048	02/01/13	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 Receieved SDG Original Sample Method Number	SP66-28 SOLID 12/12/2012 00:00:00 121215-14 6669169 TM048	02/01/13	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 Receieved SDG Original Sample Method Number	SP66-30 SOLID 12/12/2012 00:00:00 121215-14 6669171 TM048	02/01/13	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 Receieved SDG Original Sample Method Number	SP66-32 SOLID 12/12/2012 00:00:00 121215-14 6669173 TM048	02/01/13	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP80-10 SOLID 11/12/2012 00:00:00 121215-14 6669196 TM048	02/01/13	Chris Swindells	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

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 Receieved SDG Original Sample Method Number	SP78-3 SOLID 11/12/2012 00:00:00 121215-14 6669177 TM 304	None (#)	n/c	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP78-7 SOLID 11/12/2012 00:00:00 121215-14 6669182 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP79-2 SOLID 11/12/2012 00:00:00 121215-14 6669184 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP80-1 SOLID 11/12/2012 00:00:00 121215-14 6669185 TM 304	None (#)	n/c	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP80-3 SOLID 11/12/2012 00:00:00 121215-14 6669187 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

		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 Receieved SDG Original Sample Method Number	SP80-5 SOLID 11/12/2012 00:00:00 121215-14 6669189 TM 304	None (#)	n/c	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP80-7 SOLID 11/12/2012 00:00:00 121215-14 6669193 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP80-9 SOLID 11/12/2012 00:00:00 121215-14 6669195 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-30 SOLID 12/12/2012 00:00:00 121215-14 6669171 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Notification of NDPs (No determination possible)

Date Received : 15/12/2012 10:48:06

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
6669177	SP78-3		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669180	SP78-5		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669182	SP78-7		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669183	SP79-1		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669184	SP79-2		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669185	SP80-1		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669187	SP80-3		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669188	SP80-4		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669189	SP80-5		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669191	SP80-6		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669193	SP80-7		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669194	SP80-8		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669195	SP80-9		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6669196	SP80-10		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

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)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
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		
TM321		Organic matter Content of Soil By Titration		

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

CERTIFICATE OF ANALYSIS

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Test Completion Dates

Lab Sample No(s)	6669175	6669176	6669177	6669179	6669180	6669181	6669182	6669183	6669184	6669185
Customer Sample Ref.	SP78-1	SP78-2	SP78-3	SP78-4	SP78-5	SP78-6	SP78-7	SP79-1	SP79-2	SP80-1
AGS Ref.										
Depth										
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013
Asbestos Quantification - Full			31-Jan-2013				31-Jan-2013		31-Jan-2013	31-Jan-2013
EPH CWG (Aliphatic) GC (S)	27-Dec-2012	28-Dec-2012	28-Dec-2012	27-Dec-2012	28-Dec-2012	28-Dec-2012	21-Dec-2012	27-Dec-2012	21-Dec-2012	21-Dec-2012
EPH CWG (Aromatic) GC (S)	27-Dec-2012	28-Dec-2012	28-Dec-2012	27-Dec-2012	28-Dec-2012	28-Dec-2012	21-Dec-2012	27-Dec-2012	21-Dec-2012	21-Dec-2012
GRO by GC-FID (S)	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	20-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
Metals by iCap-OES (Soil)	21-Dec-2012	27-Dec-2012	27-Dec-2012	21-Dec-2012	27-Dec-2012	27-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
PAH by GCMS	28-Dec-2012	21-Dec-2012	27-Dec-2012	28-Dec-2012	21-Dec-2012	21-Dec-2012	28-Dec-2012	28-Dec-2012	02-Jan-2013	21-Dec-2012
pH	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012
Sample description	19-Dec-2012	20-Dec-2012	20-Dec-2012	19-Dec-2012	20-Dec-2012	20-Dec-2012	19-Dec-2012	19-Dec-2012	20-Dec-2012	20-Dec-2012
Total Organic Carbon	03-Jan-2013	03-Jan-2013		03-Jan-2013		03-Jan-2013				
Total Organic Carbon (Asb)			03-Jan-2013		03-Jan-2013		03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013
TPH CWG GC (S)	27-Dec-2012	28-Dec-2012	28-Dec-2012	27-Dec-2012	28-Dec-2012	28-Dec-2012	21-Dec-2012	27-Dec-2012	21-Dec-2012	21-Dec-2012
VOC MS (S)	21-Dec-2012	21-Dec-2012	27-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012

Lab Sample No(s)	6669186	6669187	6669188	6669189	6669191	6669193	6669194	6669195	6669169	6669170
Customer Sample Ref.	SP80-2	SP80-3	SP80-4	SP80-5	SP80-6	SP80-7	SP80-8	SP80-9	SP66-28	SP66-29
AGS Ref.										
Depth										
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	
Asbestos Quantification - Full		31-Jan-2013		31-Jan-2013		31-Jan-2013		31-Jan-2013		
EPH CWG (Aliphatic) GC (S)	28-Dec-2012	21-Dec-2012	28-Dec-2012	21-Dec-2012	28-Dec-2012	27-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
EPH CWG (Aromatic) GC (S)	28-Dec-2012	21-Dec-2012	28-Dec-2012	21-Dec-2012	28-Dec-2012	27-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
GRO by GC-FID (S)	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	20-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
Metals by iCap-OES (Soil)	27-Dec-2012	21-Dec-2012	27-Dec-2012	21-Dec-2012	27-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
PAH by GCMS	21-Dec-2012	28-Dec-2012	21-Dec-2012	28-Dec-2012	21-Dec-2012	28-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	20-Dec-2012
pH	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	19-Dec-2012
Sample description	20-Dec-2012	19-Dec-2012	20-Dec-2012	19-Dec-2012	20-Dec-2012	19-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012	16-Dec-2012
Total Organic Carbon	03-Jan-2013									20-Dec-2012
Total Organic Carbon (Asb)		03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013	03-Jan-2013		
TPH CWG GC (S)	28-Dec-2012	21-Dec-2012	28-Dec-2012	21-Dec-2012	28-Dec-2012	27-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
VOC MS (S)	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012

Lab Sample No(s)	6669171	6669172	6669173	6669174	6669196
Customer Sample Ref.	SP66-30	SP66-31	SP66-32	SP66-33	SP80-10
AGS Ref.					
Depth					
Type	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	03-Jan-2013		03-Jan-2013		03-Jan-2013
Asbestos Quantification - Full	31-Jan-2013				
EPH CWG (Aliphatic) GC (S)	21-Dec-2012	21-Dec-2012	27-Dec-2012	21-Dec-2012	28-Dec-2012
EPH CWG (Aromatic) GC (S)	21-Dec-2012	21-Dec-2012	27-Dec-2012	21-Dec-2012	28-Dec-2012
GRO by GC-FID (S)	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
Metals by iCap-OES (Soil)	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	27-Dec-2012
PAH by GCMS	21-Dec-2012	20-Dec-2012	28-Dec-2012	20-Dec-2012	21-Dec-2012
pH	20-Dec-2012	19-Dec-2012	20-Dec-2012	19-Dec-2012	20-Dec-2012
Sample description	20-Dec-2012	16-Dec-2012	19-Dec-2012	16-Dec-2012	20-Dec-2012
Total Organic Carbon			03-Jan-2013		
Total Organic Carbon (Asb)					04-Jan-2013
TPH CWG GC (S)	21-Dec-2012	21-Dec-2012	27-Dec-2012	21-Dec-2012	28-Dec-2012
VOC MS (S)	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012

SDG:	121215-14	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210579
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	207429

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 2 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 Dimethyphenol, 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**
§	**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.

ALcontrol Laboratories

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Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	30 January 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	121212-70
Your Reference:	Stockpiles
Location:	Coed Darcy Urban Village
Report No:	210424

This report has been revised and directly supersedes 209300 in its entirety.

We received 4 samples on Wednesday December 12, 2012 and 4 of these samples were scheduled for analysis which was completed on Wednesday January 30, 2013. 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

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
6649605	SP66-24			07/12/2012
6649607	SP66-25			07/12/2012
6649608	SP66-26			07/12/2012
6649609	SP66-27			07/12/2012

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

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			6649605			6649607			6649608			6649609		
Customer Sample Reference			SP66-24			SP66-25			SP66-26			SP66-27		
AGS Reference														
Depth (m)														
Container			250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 4		X			X			X			X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 4	X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 4	X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 4			X			X			X			X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 4	X			X			X			X		
	Cadmium	NDPs: 0 Tests: 4	X			X			X			X		
	Chromium	NDPs: 0 Tests: 4	X			X			X			X		
	Copper	NDPs: 0 Tests: 4	X			X			X			X		
	Lead	NDPs: 0 Tests: 4	X			X			X			X		
	Mercury	NDPs: 0 Tests: 4	X			X			X			X		
	Nickel	NDPs: 0 Tests: 4	X			X			X			X		
	Selenium	NDPs: 0 Tests: 4	X			X			X			X		
	Vanadium	NDPs: 0 Tests: 4	X			X			X			X		
	Zinc	NDPs: 0 Tests: 4	X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 4	X			X			X			X		

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

SOLID

Results Legend

X Test

N No Determination Possible

			Lab Sample No(s)				Customer Sample Reference				AGS Reference				Depth (m)				Container															
			6649605	6649607	6649608	6649609	SP66-24	SP66-25	SP66-26	SP66-27									250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)
pH	All	NDPs: 0 Tests: 4																		X			X			X			X			
Sample description	All	NDPs: 0 Tests: 4																	X			X			X			X				
Total Organic Carbon	All	NDPs: 1 Tests: 3																	N				X			X			X				
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 1																	X														
TPH CWG GC (S)	All	NDPs: 0 Tests: 4																	X			X			X			X				
VOC MS (S)	All	NDPs: 0 Tests: 4																			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

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
6649605	SP66-24		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
6649607	SP66-25		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
6649608	SP66-26		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
6649609	SP66-27		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			SP66-24	.	Soil/Solid	07/12/2012	.	12/12/2012	121212-70	6649605	
			SP66-25	.	Soil/Solid	07/12/2012	.	12/12/2012	121212-70	6649607	
			SP66-26	.	Soil/Solid	07/12/2012	.	12/12/2012	121212-70	6649608	
			SP66-27	.	Soil/Solid	07/12/2012	.	12/12/2012	121212-70	6649609	
Soil Organic Matter (SOM)	<0.35 %	TM132						2.48 #	1.31 #	1.41 #	
pH	1 pH Units	TM133	8.37 M					8.57 M	8.53 M	8.4 M	
Arsenic	<0.6 mg/kg	TM181	8.39 M					14 M	5.77 M	7.9 M	
Cadmium	<0.02 mg/kg	TM181	0.696 M					0.735 M	0.561 M	0.647 M	
Chromium	<0.9 mg/kg	TM181	16.1 M					18.7 M	18.5 M	17.2 M	
Copper	<1.4 mg/kg	TM181	10.9 M					104 M	10.8 M	15.3 M	
Lead	<0.7 mg/kg	TM181	22.9 M					36.5 M	18.3 M	19.4 M	
Mercury	<0.14 mg/kg	TM181	<0.14 M					<0.14 M	<0.14 M	<0.14 M	
Nickel	<0.2 mg/kg	TM181	37.7 M					40.9 M	39.4 M	41.2 M	
Selenium	<1 mg/kg	TM181	<1 #					<1 #	<1 #	<1 #	
Vanadium	<0.2 mg/kg	TM181	13.9 #					16 #	16.4 #	15.5 #	
Zinc	<1.9 mg/kg	TM181	94.4 M					159 M	83.1 M	89.7 M	
Soil Organic Matter (SOM)	<0.1 %	TM321	1.14								

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	SP66-24	SP66-25	SP66-26	SP66-27		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	07/12/2012	07/12/2012	07/12/2012	07/12/2012		
			Sample Time	.	.	.	.		
			Date Received	12/12/2012	12/12/2012	12/12/2012	12/12/2012		
			SDG Ref	121212-70	121212-70	121212-70	121212-70		
			Lab Sample No.(s)	6649605	6649607	6649608	6649609		
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		105	106	105	105		
Acenaphthene-d10 % recovery**	%	TM218		107	108	105	106		
Phenanthrene-d10 % recovery**	%	TM218		106	107	104	105		
Chrysene-d12 % recovery**	%	TM218		97.7	97.5	90.8	92.3		
Perylene-d12 % recovery**	%	TM218		101	102	90.3	92.9		
Naphthalene	<9 µg/kg	TM218		34.6 M	133 M	20.2 M	43.5 M		
Acenaphthylene	<12 µg/kg	TM218		<12 M	55.9 M	<12 M	<12 M		
Acenaphthene	<8 µg/kg	TM218		8.91 M	164 M	<8 M	16.6 M		
Fluorene	<10 µg/kg	TM218		17.3 M	134 M	<10 M	25.2 M		
Phenanthrene	<15 µg/kg	TM218		193 M	722 M	78.9 M	326 M		
Anthracene	<16 µg/kg	TM218		24.7 M	173 M	<16 M	44.3 M		
Fluoranthene	<17 µg/kg	TM218		169 M	1060 M	31.4 M	258 M		
Pyrene	<15 µg/kg	TM218		173 M	977 M	39.5 M	191 M		
Benz(a)anthracene	<14 µg/kg	TM218		101 M	689 M	34.3 M	139 M		
Chrysene	<10 µg/kg	TM218		127 M	705 M	44 M	161 M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		173 M	1240 M	43 M	191 M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		49.7 M	425 M	<14 M	51.4 M		
Benzo(a)pyrene	<15 µg/kg	TM218		96 M	897 M	21.3 M	94.3 M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		56.5 M	554 M	<18 M	57.8 M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	203 M	<23 M	25.7 M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		72.4 M	693 M	<24 M	73.1 M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1300	8820	313	1700		

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	SP66-24	SP66-25	SP66-26	SP66-27		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	07/12/2012	07/12/2012	07/12/2012	07/12/2012		
			Sample Time	.	.	.	.		
			Date Received	12/12/2012	12/12/2012	12/12/2012	12/12/2012		
			SDG Ref	121212-70	121212-70	121212-70	121212-70		
			Lab Sample No.(s)	6649605	6649607	6649608	6649609		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		63	55	59	71		
GRO >C5-C12	<44 µg/kg	TM089		1050	537	<44	396		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #		
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M		
Toluene	<2 µg/kg	TM089		2.19 M	3.25 M	2.18 M	9.9 M		
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	3.3 M		
m,p-Xylene	<6 µg/kg	TM089		<6 M	7.57 M	7.62 M	22 M		
o-Xylene	<3 µg/kg	TM089		3.28 M	6.49 M	<3 M	4.4 M		
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	14.1	<9	26.4		
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	39.6		
Aliphatics >C5-C6	<10 µg/kg	TM089		16.4	19.5	<10	34.1		
Aliphatics >C6-C8	<10 µg/kg	TM089		42.6	68.2	16.3	123		
Aliphatics >C8-C10	<10 µg/kg	TM089		72.1	55.2	<10	45.1		
Aliphatics >C10-C12	<10 µg/kg	TM089		517	203	<10	72.6		
Aliphatics >C12-C16	<100 µg/kg	TM173		8880	24800	8130	7620		
Aliphatics >C16-C21	<100 µg/kg	TM173		25100	58700	9910	11200		
Aliphatics >C21-C35	<100 µg/kg	TM173		66400	149000	17600	24900		
Aliphatics >C35-C44	<100 µg/kg	TM173		16300	37500	11000	15000		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		117000	270000	46700	58700		
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		56.8	51.9	14.1	60.5		
Aromatics >EC10-EC12	<10 µg/kg	TM089		344	136	<10	48.4		
Aromatics >EC12-EC16	<100 µg/kg	TM173		6720	9930	12100	3770		
Aromatics >EC16-EC21	<100 µg/kg	TM173		15200	48700	10200	6990		
Aromatics >EC21-EC35	<100 µg/kg	TM173		58800	170000	20600	20400		
Aromatics >EC35-EC44	<100 µg/kg	TM173		21300	54400	6500	6880		
Aromatics >EC40-EC44	<100 µg/kg	TM173		8080	19700	2250	2320		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		102000	283000	49400	38000		
Total Aliphatics >C5-35	<100 µg/kg	TM173		101000	232000	35700	44000		
Total Aromatics >C5-35	<100 µg/kg	TM173		81100	229000	42900	31300		
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		182000	462000	78700	75300		

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

TPH CWG (S)

Results Legend		Customer Sample Ref.	SP66-24	SP66-25	SP66-26	SP66-27		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.	.		
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
*	Subcontracted test.	Date Sampled	07/12/2012	07/12/2012	07/12/2012	07/12/2012		
**	% 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	Sample Time	.	.	.	.		
		Date Received	12/12/2012	12/12/2012	12/12/2012	12/12/2012		
		SDG Ref	121212-70	121212-70	121212-70	121212-70		
(F)	Trigger breach confirmed	Lab Sample No.(s)	6649605	6649607	6649608	6649609		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component		**LOD/Units**	**Method**					
Total Aliphatics & Aromatics >C5-C44		<100 µg/kg	TM173	220000	554000	96200	97100		

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	SP66-24	SP66-25	SP66-26	SP66-27		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	07/12/2012	07/12/2012	07/12/2012	07/12/2012		
			Sample Time	.	.	.	.		
			Date Received	12/12/2012	12/12/2012	12/12/2012	12/12/2012		
			SDG Ref	121212-70	121212-70	121212-70	121212-70		
			Lab Sample No.(s)	6649605	6649607	6649608	6649609		
			AGS Reference						
Dibromofluoromethane**	%	TM116		96.2	96.8	97.4	105		
Toluene-d8**	%	TM116		90	90.6	93.3	99.8		
4-Bromofluorobenzene**	%	TM116		132	151	133	104		
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 M	<4 M	<4 M	<80 M		
Chloromethane	<7 µg/kg	TM116		<7	<7	<7	<140		
Vinyl Chloride	<10 µg/kg	TM116		<10	<10	<10	<200		
Bromomethane	<13 µg/kg	TM116		<13 M	<13 M	<13 M	<260 M		
Chloroethane	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<280 M		
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<6 M	<6 M	<120 M		
1,1-Dichloroethene	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<200 #		
Carbon Disulphide	<7 µg/kg	TM116		<7 M	<7 M	<7 M	<140 M		
Dichloromethane	<10 µg/kg	TM116		14.4 #	14.5 #	10.9 #	<200 #		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<220 M		
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<220 M		
1,1-Dichloroethane	<8 µg/kg	TM116		<8 M	<8 M	<8 M	<160 M		
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<100 M		
2,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<240 M		
Bromochloromethane	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<280 M		
Chloroform	<8 µg/kg	TM116		<8 M	<8 M	<8 M	<160 M		
1,1,1-Trichloroethane	<7 µg/kg	TM116		<7 M	<7 M	<7 M	<140 M		
1,1-Dichloropropene	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<220 M		
Carbontetrachloride	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<280 M		
1,2-Dichloroethane	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<100 M		
Benzene	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<180 M		
Trichloroethene	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<180 M		
1,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<240 M		
Dibromomethane	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<180 M		
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<7 M	<7 M	<140 M		
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<280 M		
Toluene	<5 µg/kg	TM116		8.94 M	9.51 M	9.6 M	<100 M		
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<14	<14	<14	<280		
1,1,2-Trichloroethane	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<200 M		

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	SP66-24	SP66-25	SP66-26	SP66-27		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	07/12/2012	07/12/2012	07/12/2012	07/12/2012		
			Sample Time	.	.	.	.		
			Date Received	12/12/2012	12/12/2012	12/12/2012	12/12/2012		
			SDG Ref	121212-70	121212-70	121212-70	121212-70		
			Lab Sample No.(s)	6649605	6649607	6649608	6649609		
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<7 #	<7 #	<7 #	<140 #		
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<100 M		
Dibromochloromethane	<13 µg/kg	TM116		<13 M	<13 M	<13 M	<260 M		
1,2-Dibromoethane	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<240 M		
Chlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<100 M		
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<200 M		
Ethylbenzene	<4 µg/kg	TM116		5.39 M	5.7 M	9.23 M	<80 M		
p/m-Xylene	<14 µg/kg	TM116		17 #	22.5 #	22.3 #	<280 #		
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<200 M		
Styrene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<200 M		
Bromoform	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<200 M		
Isopropylbenzene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<100 M		
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<10 #	<10 #	<10 #	<200 #		
1,2,3-Trichloropropane	<17 µg/kg	TM116		<17 M	<17 M	<17 M	<340 M		
Bromobenzene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<200 M		
Propylbenzene	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<220 M		
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<9 M	<9 M	<180 M		
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<8 #	<8 #	<8 #	<160 #		
4-Chlorotoluene	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<240 M		
tert-Butylbenzene	<12 µg/kg	TM116		<12 #	<12 #	<12 #	<240 #		
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<9 #	<9 #	<9 #	<180 #		
sec-Butylbenzene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<200 M		
4-Isopropyltoluene	<11 µg/kg	TM116		<11 M	<11 M	<11 M	<220 M		
1,3-Dichlorobenzene	<6 µg/kg	TM116		<6 M	<6 M	<6 M	<120 M		
1,4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<5 M	<100 M		
n-Butylbenzene	<10 µg/kg	TM116		<10 M	<10 M	<10 M	<200 M		
1,2-Dichlorobenzene	<12 µg/kg	TM116		<12 M	<12 M	<12 M	<240 M		
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<14 M	<14 M	<280 M		
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<15	<15	<300		
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<6 #	<6 #	<6 #	<120 #		
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<12	<12	<240		
Naphthalene	<13 µg/kg	TM116		<13 M	<13 M	<13 M	847 M		

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	SP66-24	SP66-25	SP66-26	SP66-27		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	07/12/2012	07/12/2012	07/12/2012	07/12/2012		
			Sample Time	.	.	.	.		
			Date Received	12/12/2012	12/12/2012	12/12/2012	12/12/2012		
			SDG Ref	121212-70	121212-70	121212-70	121212-70		
			Lab Sample No.(s)	6649605	6649607	6649608	6649609		
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<6 M	<6 M	<6 M	<120 M		

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

Asbestos Identification - Soil

		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 Receieved SDG Original Sample Method Number	SP66-24 SOLID 07/12/2012 00:00:00 121212-70 6649605 TM048	19/12/12	Kevin Bowron	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 Receieved SDG Original Sample Method Number	SP66-25 SOLID 07/12/2012 00:00:00 121212-70 6649607 TM048	19/12/12	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-26 SOLID 07/12/2012 00:00:00 121212-70 6649608 TM048	19/12/12	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-27 SOLID 07/12/2012 00:00:00 121212-70 6649609 TM048	19/12/12	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

Notification of NDPs (No determination possible)

Date Received : 12/12/2012 13:36:15

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
6649605	SP66-24		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

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)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
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		
TM321		Organic matter Content of Soil By Titration		

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

CERTIFICATE OF ANALYSIS

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

Test Completion Dates

Lab Sample No(s)	6649605	6649607	6649608	6649609
Customer Sample Ref.	SP66-24	SP66-25	SP66-26	SP66-27
AGS Ref.				
Depth				
Type	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	20-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012
EPH CWG (Aliphatic) GC (S)	27-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
EPH CWG (Aromatic) GC (S)	27-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
GRO by GC-FID (S)	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
Metals by iCap-OES (Soil)	21-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
PAH by GCMS	21-Dec-2012	20-Dec-2012	20-Dec-2012	20-Dec-2012
pH	19-Dec-2012	19-Dec-2012	19-Dec-2012	20-Dec-2012
Sample description	15-Dec-2012	15-Dec-2012	15-Dec-2012	15-Dec-2012
Total Organic Carbon		20-Dec-2012	20-Dec-2012	20-Dec-2012
Total Organic Carbon (Asb)	21-Dec-2012			
TPH CWG GC (S)	27-Dec-2012	21-Dec-2012	21-Dec-2012	21-Dec-2012
VOC MS (S)	20-Dec-2012	20-Dec-2012	20-Dec-2012	21-Dec-2012

SDG:	121212-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0332
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210424
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	209300

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 2 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 Dimethyphenol, 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
§	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.

ALcontrol Laboratories

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Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

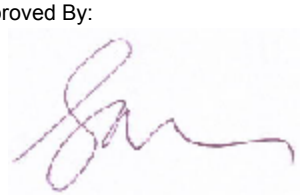
Date:	13 December 2012
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	121203-40
Your Reference:	Stockpiles
Location:	Coed Darcy Urban Village
Report No:	205567

We received 6 samples on Saturday December 01, 2012 and 6 of these samples were scheduled for analysis which was completed on Thursday December 13, 2012. 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

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
6594791	SP55-5			30/11/2012
6594792	SP55-6			30/11/2012
6594793	SP66-17			30/11/2012
6594794	SP66-18			30/11/2012
6594795	SP66-19			30/11/2012
6594796	SP66-20			30/11/2012

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

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	6594791	6594792	6594793	6594794	6594795	6594796
			Customer Sample Reference	SP55-5	SP55-6	SP66-17	SP66-18	SP66-19	SP66-20
			AGS Reference						
			Depth (m)						
			Container	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 6			X		X		X		X		X		X		X		X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 6	X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 6	X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 6			X		X			X			X			X			X		X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 6	X			X			X			X			X			X		
	Cadmium	NDPs: 0 Tests: 6	X			X			X			X			X			X		
	Chromium	NDPs: 0 Tests: 6	X			X			X			X			X			X		
	Copper	NDPs: 0 Tests: 6	X			X			X			X			X			X		
	Lead	NDPs: 0 Tests: 6	X			X			X			X			X			X		
	Mercury	NDPs: 0 Tests: 6	X			X			X			X			X			X		
	Nickel	NDPs: 0 Tests: 6	X			X			X			X			X			X		
	Selenium	NDPs: 0 Tests: 6	X			X			X			X			X			X		
	Zinc	NDPs: 0 Tests: 6	X			X			X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 6	X			X			X			X			X			X		
pH	All	NDPs: 0 Tests: 6			X		X			X			X			X			X		

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			6594791	SP55-5			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6594792	SP55-6			250g Amber Jar (AL
							60g VOC (ALE215)
			6594793	SP66-17			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6594794	SP66-18			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6594795	SP66-19			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6594796	SP66-20			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Sample description	All	NDPs: 0 Tests: 6	X	X	X	X	X	X
Total Organic Carbon	All	NDPs: 3 Tests: 3	N	N	X	X	N	X
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 3	X	X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 6	X	X	X	X	X	X
VOC MS (S)	All	NDPs: 0 Tests: 6		X	X	X	X	X

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**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
6594791	SP55-5		Grey	Loamy Sand	0.1 - 2 mm	None	None
6594792	SP55-6		Light Brown	Loamy Sand	0.063 - 0.1 mm	Stones	Crushed Brick
6594793	SP66-17		Dark Brown	Loamy Sand	0.063 - 0.1 mm	Stones	None
6594794	SP66-18		Light Brown	Loamy Sand	0.063 - 0.1 mm	Stones	None
6594795	SP66-19		Dark Brown	Loamy Sand	0.063 - 0.1 mm	Stones	None
6594796	SP66-20		Dark Brown	Loamy Sand	0.063 - 0.1 mm	Stones	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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP55-5	SP55-6	SP66-17	SP66-18	SP66-19	SP66-20
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012
			SDG Ref	121203-40	121203-40	121203-40	121203-40	121203-40	121203-40
			Lab Sample No.(s)	6594791	6594792	6594793	6594794	6594795	6594796
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132			4.45 #	2.97 #		2.4 #
pH	1 pH Units	TM133		10.4 M	8.27 M	8.14 M	7.99 M	8.28 M	8.16 M
Arsenic	<0.6 mg/kg	TM181		239 M	202 M	8.2 M	17.8 M	19.9 M	7.98 M
Cadmium	<0.02 mg/kg	TM181		2.57 M	3.37 M	0.918 M	1.02 M	1.06 M	1.88 M
Chromium	<0.9 mg/kg	TM181		19.2 M	17.7 M	16.2 M	15.2 M	22.1 M	15.3 M
Copper	<1.4 mg/kg	TM181		2200 M	588 M	15.3 M	52.8 M	54.3 M	17.2 M
Lead	<0.7 mg/kg	TM181		393 M	1220 M	20.3 M	36.8 M	34 M	23.2 M
Mercury	<0.14 mg/kg	TM181		0.518 M	0.229 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		26.3 M	32.7 M	42.8 M	90.4 M	36 M	50.6 M
Selenium	<1 mg/kg	TM181		1.14 #	1.99 #	<1 #	1.42 #	1.51 #	1.82 #
Zinc	<1.9 mg/kg	TM181		2490 M	2710 M	89.4 M	604 M	116 M	93.5 M
Soil Organic Matter (SOM)	<0.1 %	TM321		1.91	1.56			1.9	

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP55-5	SP55-6	SP66-17	SP66-18	SP66-19	SP66-20
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012
			SDG Ref	121203-40	121203-40	121203-40	121203-40	121203-40	121203-40
			Lab Sample No.(s)	6594791	6594792	6594793	6594794	6594795	6594796
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		100	101	101	104	102	101
Acenaphthene-d10 % recovery**	%	TM218		97.3	98	101	106	99.4	99
Phenanthrene-d10 % recovery**	%	TM218		95.4	96.5	98.8	103	98.4	97.4
Chrysene-d12 % recovery**	%	TM218		89.6	90.8	93.2	93.6	93.7	93.7
Perylene-d12 % recovery**	%	TM218		93.2	94.5	96.4	94.8	96.1	97.7
Naphthalene	<9 µg/kg	TM218		77 M	66 M	25.3 M	27.2 M	39.9 M	35.8 M
Acenaphthylene	<12 µg/kg	TM218		<24 M	28.3 M	<12 M	<12 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		58.8 M	101 M	<8 M	<8 M	13.1 M	23.3 M
Fluorene	<10 µg/kg	TM218		46.6 M	72.8 M	12.8 M	<10 M	16 M	25.5 M
Phenanthrene	<15 µg/kg	TM218		397 M	535 M	131 M	127 M	229 M	227 M
Anthracene	<16 µg/kg	TM218		83.9 M	101 M	<16 M	<16 M	45.3 M	24.1 M
Fluoranthene	<17 µg/kg	TM218		658 M	718 M	52.6 M	57.2 M	297 M	163 M
Pyrene	<15 µg/kg	TM218		563 M	606 M	50.4 M	64.9 M	248 M	155 M
Benz(a)anthracene	<14 µg/kg	TM218		470 M	420 M	33.7 M	40.6 M	184 M	101 M
Chrysene	<10 µg/kg	TM218		549 M	472 M	60.4 M	58.9 M	176 M	141 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		785 M	705 M	63.1 M	59.8 M	271 M	168 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		321 M	280 M	20.9 M	18.9 M	99.4 M	59.9 M
Benzo(a)pyrene	<15 µg/kg	TM218		683 M	603 M	36.8 M	32.4 M	232 M	119 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		490 M	412 M	22.4 M	20.8 M	156 M	66.5 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		172 M	142 M	<23 M	<23 M	49.8 M	27.2 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		628 M	502 M	28.9 M	30.4 M	185 M	85.2 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		5980	5760	538	538	2240	1420

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	SP55-5	SP55-6	SP66-17	SP66-18	SP66-19	SP66-20
#	ISO17025 accredited.							
M	*m*CERTS 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	Depth (m)	.	.	.	.	.	.
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012
		Sample Time	.	.	.	.	.	.
		Date Received	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012
		SDG Ref	121203-40	121203-40	121203-40	121203-40	121203-40	121203-40
(F)	Trigger breach confirmed	Lab Sample No.(s)	6594791	6594792	6594793	6594794	6594795	6594796
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	77	41	30	97	44	44
GRO >C5-C12	<44 µg/kg	TM089	15200	165	376	432	136	233
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089	22.4 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089	<2 M	2.2 M	5.32 M	3.26 M	2.18 M	2.15 M
Ethylbenzene	<3 µg/kg	TM089	<3 M	5.5 M	8.5 M	3.26 M	4.36 M	3.23 M
m,p-Xylene	<6 µg/kg	TM089	<6 M	11 M	23.4 M	13 M	10.9 M	9.68 M
o-Xylene	<3 µg/kg	TM089	<3 M	<3 M	3.19 M	<3 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9	11	26.6	13	10.9	9.68
sum of detected BTEX by GC	<24 µg/kg	TM089	<24	<24	40.4	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089	506	15.4	39.3	26.1	13.1	17.2
Aliphatics >C6-C8	<10 µg/kg	TM089	6610	42.9	165	98.9	52.4	60.2
Aliphatics >C8-C10	<10 µg/kg	TM089	3090	19.8	39.3	35.9	16.4	22.6
Aliphatics >C10-C12	<10 µg/kg	TM089	1720	30.8	36.1	134	13.1	60.2
Aliphatics >C12-C16	<100 µg/kg	TM173	212000	18800	5070	7150	5000	11100
Aliphatics >C16-C21	<100 µg/kg	TM173	437000	32200	4960	15600	13400	15000
Aliphatics >C21-C35	<100 µg/kg	TM173	610000	75600	13500	28100	62500	34300
Aliphatics >C35-C44	<100 µg/kg	TM173	112000	32000	11200	9120	24600	23400
Total Aliphatics >C12-C44	<100 µg/kg	TM173	1370000	159000	34800	60000	106000	83900
Aromatics >EC5-EC7	<10 µg/kg	TM089	22.4	<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	2060	29.7	61.7	41.3	26.2	29
Aromatics >EC10-EC12	<10 µg/kg	TM089	1140	19.8	24.4	89.1	<10	40.9
Aromatics >EC12-EC16	<100 µg/kg	TM173	19900	4320	3530	<100	2830	3970
Aromatics >EC16-EC21	<100 µg/kg	TM173	187000	15100	3940	8880	5620	6560
Aromatics >EC21-EC35	<100 µg/kg	TM173	332000	78900	7690	27300	30500	19900
Aromatics >EC35-EC44	<100 µg/kg	TM173	67900	44900	3730	14200	12100	8540
Aromatics >EC40-EC44	<100 µg/kg	TM173	24500	19400	1630	5900	4770	3320
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	607000	143000	18900	50400	51000	38900
Total Aliphatics >C5-35	<100 µg/kg	TM173	1270000	127000	23800	51100	81000	60600
Total Aromatics >C5-35	<100 µg/kg	TM173	543000	98400	15300	36300	39000	30400
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173	1810000	225000	39100	87500	120000	91100

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	SP55-5	SP55-6	SP66-17	SP66-18	SP66-19	SP66-20
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.	.	.	.
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012
**	% 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	Sample Time	.	.	.	.	.	.
		Date Received	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012
		SDG Ref	121203-40	121203-40	121203-40	121203-40	121203-40	121203-40
(F)	Trigger breach confirmed	Lab Sample No.(s)	6594791	6594792	6594793	6594794	6594795	6594796
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1990000	302000	54100	111000	157000	123000

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP55-5	SP55-6	SP66-17	SP66-18	SP66-19	SP66-20
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012
			SDG Ref	121203-40	121203-40	121203-40	121203-40	121203-40	121203-40
			Lab Sample No.(s)	6594791	6594792	6594793	6594794	6594795	6594796
			AGS Reference						
Dibromofluoromethane**	%	TM116		106	104	105	96.8	106	106
Toluene-d8**	%	TM116		101	98.7	99.4	100	99.5	100
4-Bromofluorobenzene**	%	TM116		113	115	116	106	108	107
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<140	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<200	<200	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<120 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<160 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M	<160 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M	<140 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		154 M	<100 M	<100 M	<100 M	<100 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280	<280	<280	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP55-5	SP55-6	SP66-17	SP66-18	SP66-19	SP66-20
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012
			SDG Ref	121203-40	121203-40	121203-40	121203-40	121203-40	121203-40
			Lab Sample No.(s)	6594791	6594792	6594793	6594794	6594795	6594796
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<140 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<260 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		125 M	<80 M	93.4 M	<80 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #	<280 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #	<200 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M	<340 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M	<180 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #	<160 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<240 #	<240 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<180 #	<180 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M	<220 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<120 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M	<200 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M	<240 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<300	<300	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<120 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<240	<240	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP55-5	SP55-6	SP66-17	SP66-18	SP66-19	SP66-20
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012	30/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012	01/12/2012
			SDG Ref	121203-40	121203-40	121203-40	121203-40	121203-40	121203-40
			Lab Sample No.(s)	6594791	6594792	6594793	6594794	6594795	6594796
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Identification - Soil

		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 Receieved SDG Original Sample Method Number	SP55-5 SOLID 30/11/2012 00:00:00 121203-40 6594791 TM048	12/12/12	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP55-6 SOLID 30/11/2012 00:00:00 121203-40 6594792 TM048	12/12/12	Kevin Bowron	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 Receieved SDG Original Sample Method Number	SP66-17 SOLID 30/11/2012 00:00:00 121203-40 6594793 TM048	12/12/12	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-18 SOLID 30/11/2012 00:00:00 121203-40 6594794 TM048	12/12/12	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-19 SOLID 30/11/2012 00:00:00 121203-40 6594795 TM048	12/12/12	Kevin Bowron	Soil containing loose fibres and ACM debris	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**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 Receieved SDG Original Sample Method Number	SP66-20 SOLID 30/11/2012 00:00:00 121203-40 6594796 TM048	12/12/12	Kevin Bowron	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Notification of NDPs (No determination possible)

Date Received : 03/12/2012 11:40:30

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
6594791	SP55-5		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6594792	SP55-6		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6594795	SP66-19		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**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)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
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		
TM321		Organic matter Content of Soil By Titration		

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

CERTIFICATE OF ANALYSIS

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	6594791	6594792	6594793	6594794	6594795	6594796
Customer Sample Ref.	SP55-5	SP55-6	SP66-17	SP66-18	SP66-19	SP66-20
AGS Ref.						
Depth						
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	12-Dec-2012	12-Dec-2012	12-Dec-2012	12-Dec-2012	12-Dec-2012	12-Dec-2012
EPH CWG (Aliphatic) GC (S)	07-Dec-2012	07-Dec-2012	07-Dec-2012	10-Dec-2012	07-Dec-2012	07-Dec-2012
EPH CWG (Aromatic) GC (S)	07-Dec-2012	07-Dec-2012	07-Dec-2012	10-Dec-2012	07-Dec-2012	07-Dec-2012
GRO by GC-FID (S)	07-Dec-2012	07-Dec-2012	07-Dec-2012	07-Dec-2012	07-Dec-2012	07-Dec-2012
Metals by iCap-OES (Soil)	07-Dec-2012	07-Dec-2012	07-Dec-2012	07-Dec-2012	07-Dec-2012	07-Dec-2012
PAH by GCMS	09-Dec-2012	09-Dec-2012	09-Dec-2012	08-Dec-2012	09-Dec-2012	09-Dec-2012
pH	06-Dec-2012	06-Dec-2012	06-Dec-2012	06-Dec-2012	06-Dec-2012	06-Dec-2012
Sample description	05-Dec-2012	05-Dec-2012	05-Dec-2012	05-Dec-2012	05-Dec-2012	05-Dec-2012
Total Organic Carbon			13-Dec-2012	13-Dec-2012		13-Dec-2012
Total Organic Carbon (Asb)	12-Dec-2012	12-Dec-2012			12-Dec-2012	
TPH CWG GC (S)	07-Dec-2012	07-Dec-2012	07-Dec-2012	10-Dec-2012	07-Dec-2012	07-Dec-2012
VOC MS (S)	07-Dec-2012	07-Dec-2012	07-Dec-2012	07-Dec-2012	07-Dec-2012	07-Dec-2012

SDG:	121203-40	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0327
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	205567
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 2 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 Dimethyphenol, 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**
§	**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.

ALcontrol Laboratories

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Llandarcy
SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	31 January 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	121115-81
Your Reference:	SP Samples
Location:	Coed Darcy
Report No:	210568

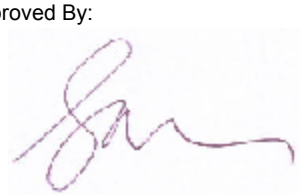
This report has been revised and directly supersedes 203851 in its entirety.

We received 17 samples on Wednesday November 14, 2012 and 17 of these samples were scheduled for analysis which was completed on Thursday January 31, 2013. 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

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
6504755	SP66-1			12/11/2012
6504756	SP66-2			12/11/2012
6504758	SP66-3			12/11/2012
6504759	SP66-4			12/11/2012
6504760	SP66-5			12/11/2012
6504761	SP66-6			12/11/2012
6504762	SP66-7			12/11/2012
6504764	SP66-8			12/11/2012
6504765	SP66-9			12/11/2012
6504766	SP66-10			12/11/2012
6504767	SP66-11			12/11/2012
6504768	SP66-12			12/11/2012
6504769	SP66-13			12/11/2012
6504770	SP66-14			12/11/2012
6504771	SP66-15			12/11/2012
6504772	SP66-16			12/11/2012
6806332	SP66 Asbestos Composite			12/11/2012

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

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			6504755			6504756			6504758			6504759			6504760			6504761			6504762			6504764			6504765			6504766			6504767			6504768			6504769			6504770
Customer Sample Reference			SP66-1			SP66-2			SP66-3			SP66-4			SP66-5			SP66-6			SP66-7			SP66-8			SP66-9			SP66-10			SP66-11			SP66-12			SP66-13			SP66-14
AGS Reference																																										
Depth (m)																																										
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 16		X			X			X			X			X			X			X			X			X			X			X			X			X		
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 11	X						X						X			X			X			X						X			X						X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 16			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
	Cadmium	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
	Chromium	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
	Copper	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
	Lead	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
	Mercury	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
	Nickel	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
	Selenium	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
	Zinc	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 16		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			6504755			6504756			6504758			6504759			6504760			6504761			6504762			6504764			6504765			6504766			6504767			6504768			6504769			6504770
Customer Sample Reference			SP66-1			SP66-2			SP66-3			SP66-4			SP66-5			SP66-6			SP66-7			SP66-8			SP66-9			SP66-10			SP66-11			SP66-12			SP66-13			SP66-14
AGS Reference																																										
Depth (m)																																										
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 4 Tests: 12	X			X			N			X			N			X			X			X			N			X			N			X			X			X
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 4							X						X												X						X									
TPH CWG GC (S)	All	NDPs: 0 Tests: 16	X			X			X			X			X			X			X			X			X			X			X			X			X			X
VOC MS (S)	All	NDPs: 0 Tests: 16			X			X			X			X			X			X			X			X			X			X			X			X			X	

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			6504770	SP66-14			400g Tub (ALE214)
			6504770	SP66-14			60g VOC (ALE215)
			6504770	SP66-14			250g Amber Jar (AL
			6504771	SP66-15			400g Tub (ALE214)
			6504771	SP66-15			60g VOC (ALE215)
			6504772	SP66-16			250g Amber Jar (AL
			6504772	SP66-16			400g Tub (ALE214)
			6504772	SP66-16			60g VOC (ALE215)
			6806332	SP66 Asbestos			1kg TUB
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 16	X		X		X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 1					X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 11		X			
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 16		X		X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 16	X		X		X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 16		X		X	
	Cadmium	NDPs: 0 Tests: 16		X		X	
	Chromium	NDPs: 0 Tests: 16		X		X	
	Copper	NDPs: 0 Tests: 16		X		X	
	Lead	NDPs: 0 Tests: 16		X		X	
	Mercury	NDPs: 0 Tests: 16		X		X	
	Nickel	NDPs: 0 Tests: 16		X		X	
	Selenium	NDPs: 0 Tests: 16		X		X	
	Zinc	NDPs: 0 Tests: 16		X		X	
pH	All	NDPs: 0 Tests: 16	X		X		X

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			6504770	SP66-14			400g Tub (ALE214)
			6504771	SP66-15			60g VOC (ALE215)
			6504772	SP66-16			250g Amber Jar (AL
			6806332	SP66 Asbestos			400g Tub (ALE214)
							60g VOC (ALE215)
							1kg TUB
Sample description	All	NDPs: 0 Tests: 16		X			X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 16		X			X
Total Organic Carbon	All	NDPs: 4 Tests: 12		X			X
TPH CWG GC (S)	All	NDPs: 0 Tests: 16		X			X
VOC MS (S)	All	NDPs: 0 Tests: 16	X		X		X

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

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
6504755	SP66-1		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
6504756	SP66-2		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
6504758	SP66-3		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
6504759	SP66-4		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
6504760	SP66-5		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
6504761	SP66-6		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
6504762	SP66-7		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
6504764	SP66-8		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Crushed Brick
6504765	SP66-9		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick
6504766	SP66-10		Dark Brown	Sandy Silt Loam	0.063 - 0.1 mm	Stones	N/A
6504767	SP66-11		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
6504768	SP66-12		Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
6504769	SP66-13		Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	Crushed Brick
6504770	SP66-14		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
6504771	SP66-15		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
6504772	SP66-16		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Brick

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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-1	SP66-2	SP66-3	SP66-4	SP66-5	SP66-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504755	6504756	6504758	6504759	6504760	6504761
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		2.53 #	3.29 #		2.41 #		2.69 #
pH	1 pH Units	TM133		8.27 M	7.96 M	8.36 M	7.45 M	6.75 M	8.65 M
Arsenic	<0.6 mg/kg	TM181		8.63 M	8.02 M	15.8 M	5.54 M	9.74 M	7.82 M
Cadmium	<0.02 mg/kg	TM181		1.03 M	0.899 M	1.21 M	0.775 M	0.873 M	0.756 M
Chromium	<0.9 mg/kg	TM181		17.3 M	18.1 M	20.9 M	16.9 M	17.5 M	17.7 M
Copper	<1.4 mg/kg	TM181		9.35 M	14.1 M	43.7 M	5.51 M	18.9 M	16 M
Lead	<0.7 mg/kg	TM181		16.5 M	29.8 M	35.9 M	14 M	27 M	23.7 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	0.274 M	<0.14 M	<0.14 M	0.184 M
Nickel	<0.2 mg/kg	TM181		44.1 M	43.3 M	36.7 M	46.9 M	45.8 M	36.3 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		91.1 M	105 M	141 M	77.7 M	103 M	99.5 M
Soil Organic Matter (SOM)	<0.1 %	TM321				1.34		1.55	

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-7	SP66-8	SP66-9	SP66-10	SP66-11	SP66-12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504762	6504764	6504765	6504766	6504767	6504768
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		4.03 #	2.83 #		2.47 #		1.74 #
pH	1 pH Units	TM133		6.36 M	8.2 M	8.14 M	5.92 M	7.09 M	9.7 M
Arsenic	<0.6 mg/kg	TM181		24 M	9.46 M	9.99 M	6.78 M	10.4 M	9.3 M
Cadmium	<0.02 mg/kg	TM181		0.938 M	0.924 M	0.833 M	0.82 M	0.935 M	0.843 M
Chromium	<0.9 mg/kg	TM181		16.3 M	17.4 M	17.5 M	18.5 M	25.3 M	21.7 M
Copper	<1.4 mg/kg	TM181		37.5 M	21.5 M	39.7 M	13.3 M	47.7 M	24.4 M
Lead	<0.7 mg/kg	TM181		27 M	21.3 M	25.9 M	27.2 M	74.2 M	17.4 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		33.8 M	38.4 M	40.9 M	50.9 M	46.2 M	45.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		88.1 M	95.5 M	117 M	99.7 M	217 M	85.9 M
Soil Organic Matter (SOM)	<0.1 %	TM321				0.624		1.52	

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-13	SP66-14	SP66-15	SP66-16		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012		
			Sample Time	.	.	.	.		
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012		
			SDG Ref	121115-81	121115-81	121115-81	121115-81		
			Lab Sample No.(s)	6504769	6504770	6504771	6504772		
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		3.74 #	3 #	3.71 #	2.62 #		
pH	1 pH Units	TM133		8.49 M	8.66 M	8.3 M	8.62 M		
Arsenic	<0.6 mg/kg	TM181		9.46 M	6.89 M	9.35 M	9.24 M		
Cadmium	<0.02 mg/kg	TM181		0.797 M	0.734 M	0.828 M	1.18 M		
Chromium	<0.9 mg/kg	TM181		18.1 M	18.8 M	19.1 M	18.5 M		
Copper	<1.4 mg/kg	TM181		21.7 M	16.7 M	19.3 M	22.1 M		
Lead	<0.7 mg/kg	TM181		18.4 M	17.2 M	19.1 M	20 M		
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M		
Nickel	<0.2 mg/kg	TM181		40.6 M	43.8 M	42.4 M	36.4 M		
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #		
Zinc	<1.9 mg/kg	TM181		90.6 M	82.6 M	87.4 M	95.5 M		

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-1	SP66-2	SP66-3	SP66-4	SP66-5	SP66-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504755	6504756	6504758	6504759	6504760	6504761
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-1	SP66-2	SP66-3	SP66-4	SP66-5	SP66-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504755	6504756	6504758	6504759	6504760	6504761
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	226	<100
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	113	330	<100	<100	111
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	114	301	<100	<100	140
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	<100	263	<100	<100	<100
Benzo(a)pyrene	<100 µg/kg	TM157		<100	113	323	<100	<100	125
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	<100	157	<100	<100	<100
Chrysene	<100 µg/kg	TM157		<100	145	383	<100	123	151
Fluoranthene	<100 µg/kg	TM157		<100	142	682	<100	<100	220
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Phenanthrene	<100 µg/kg	TM157		<100	159	344	<100	206	215
Pyrene	<100 µg/kg	TM157		<100	131	596	<100	156	202
Naphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	134	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-7	SP66-8	SP66-9	SP66-10	SP66-11	SP66-12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504762	6504764	6504765	6504766	6504767	6504768
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	171	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	357	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Semi Volatile Organic Compounds

Results Legend	
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M	*m*CERTS 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
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1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-7	SP66-8	SP66-9	SP66-10	SP66-11	SP66-12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504762	6504764	6504765	6504766	6504767	6504768
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	238	157	204	<100
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	458	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	414	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	291	241	<100	2290	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	292	369	<100	3360	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	245	263	<100	2420	<100
Benzo(a)pyrene	<100 µg/kg	TM157		<100	306	337	<100	3450	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	149	232	<100	2080	<100
Chrysene	<100 µg/kg	TM157		<100	365	320	<100	2700	<100
Fluoranthene	<100 µg/kg	TM157		<100	487	314	<100	3000	<100
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	331	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	151	<100	1290	<100
Phenanthrene	<100 µg/kg	TM157		127	374	230	183	1740	127
Pyrene	<100 µg/kg	TM157		<100	420	347	<100	2780	<100
Naphthalene	<100 µg/kg	TM157		<100	<100	123	134	202	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	621	<100

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-13	SP66-14	SP66-15	SP66-16		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012		
			Sample Time	.	.	.	.		
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012		
			SDG Ref	121115-81	121115-81	121115-81	121115-81		
			Lab Sample No.(s)	6504769	6504770	6504771	6504772		
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100		
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100		
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100		
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100		
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100		
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100		
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100		
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100		
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-13	SP66-14	SP66-15	SP66-16		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012		
			Sample Time	.	.	.	.		
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012		
			SDG Ref	121115-81	121115-81	121115-81	121115-81		
			Lab Sample No.(s)	6504769	6504770	6504771	6504772		
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100		
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100		
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100		
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100		
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100		
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100		
Benzo(a)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100		
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	<100	<100	<100		
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	<100	<100	<100		
Benzo(a)pyrene	<100 µg/kg	TM157		<100	<100	<100	<100		
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	<100	<100	<100		
Chrysene	<100 µg/kg	TM157		<100	<100	<100	<100		
Fluoranthene	<100 µg/kg	TM157		<100	<100	<100	<100		
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100		
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	<100	<100		
Phenanthrene	<100 µg/kg	TM157		194	114	<100	155		
Pyrene	<100 µg/kg	TM157		<100	<100	<100	<100		
Naphthalene	<100 µg/kg	TM157		<100	<100	<100	<100		
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100		

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-1	SP66-2	SP66-3	SP66-4	SP66-5	SP66-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504755	6504756	6504758	6504759	6504760	6504761
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		80	49	62	86	55	54
GRO >C5-C12	<44 µg/kg	TM089		<44	<44	932	595	1180	568
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	14.6 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	<2 M	<2 M	2.16 M	5.6 M	5.49 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	3.36 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	<6 M	7.14 M	7.57 M	23.5 M	12.1 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	23.5	12.1
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	47.1	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10	14.3	15.1	40.3	19.7
Aliphatics >C6-C8	<10 µg/kg	TM089		13.3	<10	40.5	63.8	160	82.3
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	<10	109	99.5	152	93.2
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	<10	412	204	408	174
Aliphatics >C12-C16	<100 µg/kg	TM173		1080	2040	22100	3360	47500	5240
Aliphatics >C16-C21	<100 µg/kg	TM173		1700	2860	56800	2510	130000	18700
Aliphatics >C21-C35	<100 µg/kg	TM173		8930	11600	127000	4650	275000	51000
Aliphatics >C35-C44	<100 µg/kg	TM173		5530	2430	44500	<100	79000	19700
Total Aliphatics >C12-C44	<100 µg/kg	TM173		17200	18900	250000	10500	532000	94600
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	14.6	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	<10	80.9	73.6	129	74.6
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	<10	275	136	271	116
Aromatics >EC12-EC16	<100 µg/kg	TM173		1530	999	7010	2130	11200	1500
Aromatics >EC16-EC21	<100 µg/kg	TM173		2310	1570	26900	1850	57400	6890
Aromatics >EC21-EC35	<100 µg/kg	TM173		11600	6780	102000	3680	192000	33000
Aromatics >EC35-EC44	<100 µg/kg	TM173		7780	4030	41100	4530	68700	18300
Aromatics >EC40-EC44	<100 µg/kg	TM173		3440	1590	17100	2350	30000	8260
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		23200	13400	177000	12200	329000	59600
Total Aliphatics >C5-35	<100 µg/kg	TM173		11700	16500	207000	10900	453000	75200
Total Aromatics >C5-35	<100 µg/kg	TM173		15400	9350	136000	7870	261000	41600
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		27200	25900	343000	18800	714000	117000

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

TPH CWG (S)

Results Legend		Customer Sample R	SP66-1	SP66-2	SP66-3	SP66-4	SP66-5	SP66-6
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.	.	.	.
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
*	Subcontracted test.	Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
**	% 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	Sample Time	.	.	.	.	.	.
		Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
		SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
(F)	Trigger breach confirmed	Lab Sample No.(s)	6504755	6504756	6504758	6504759	6504760	6504761
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	40500	32300	428000	23300	862000	155000

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-7	SP66-8	SP66-9	SP66-10	SP66-11	SP66-12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504762	6504764	6504765	6504766	6504767	6504768
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		61	47	51	74	63	73
GRO >C5-C12	<44 µg/kg	TM089		49.3	<44	7190	2160	1190	165
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	2.19 M	5.55 M	2.18 M	6.72 M	4.52 M
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	5.45 M	5.6 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		<6 M	6.58 M	16.7 M	9.8 M	20.2 M	11.3 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M	4.48 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	16.7	9.8	24.7	11.3
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	37	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10	24.4	15.2	22.4	14.7
Aliphatics >C6-C8	<10 µg/kg	TM089		15.7	<10	87.7	64.3	87.4	50.9
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	<10	552	187	76.2	14.7
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	<10	3680	1050	547	32.8
Aliphatics >C12-C16	<100 µg/kg	TM173		3040	1540	45600	21300	17900	4220
Aliphatics >C16-C21	<100 µg/kg	TM173		5780	1390	26900	11700	13700	10700
Aliphatics >C21-C35	<100 µg/kg	TM173		13600	10300	48500	14200	42200	34900
Aliphatics >C35-C44	<100 µg/kg	TM173		4240	3790	18700	6300	20500	8760
Total Aliphatics >C12-C44	<100 µg/kg	TM173		26700	17000	140000	53500	94300	58600
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	11	385	139	80.6	24.9
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	<10	2450	702	364	21.5
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	2510	13400	3790	5010	2740
Aromatics >EC16-EC21	<100 µg/kg	TM173		1740	4300	16800	5130	15400	7340
Aromatics >EC21-EC35	<100 µg/kg	TM173		9330	18100	50800	17300	86000	33900
Aromatics >EC35-EC44	<100 µg/kg	TM173		2400	11400	31900	8410	43800	14300
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	5490	13700	3560	19500	5240
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		13500	36300	113000	34700	150000	58300
Total Aliphatics >C5-35	<100 µg/kg	TM173		22500	13300	125000	48500	74500	49900
Total Aromatics >C5-35	<100 µg/kg	TM173		11100	24900	83800	27100	107000	44000
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		33500	38200	209000	75600	181000	94000

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

TPH CWG (S)

Results Legend									
#	ISO17025 accredited.	**Customer Sample R**	SP66-7	SP66-8	SP66-9	SP66-10	SP66-11	SP66-12
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	**Depth (m)**	.	.	.	.	.	.
diss.filt	Dissolved / filtered sample.	**Sample Type**	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	**Date Sampled**	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
*	Subcontracted test.	**Sample Time**	.	.	.	.	.	.
**	% 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	**Date Received**	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
		SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
(F)	Trigger breach confirmed	**Lab Sample No.(s)**	6504762	6504764	6504765	6504766	6504767	6504768
1-4&+§@	Sample deviation (see appendix)	**AGS Reference**						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	40200	53400	260000	90400	246000	117000

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-13	SP66-14	SP66-15	SP66-16		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012		
			Sample Time	.	.	.	.		
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012		
			SDG Ref	121115-81	121115-81	121115-81	121115-81		
			Lab Sample No.(s)	6504769	6504770	6504771	6504772		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		16	39	51	55		
GRO >C5-C12	<44 µg/kg	TM089		95.2	80.3	64	52.2		
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #		
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M		
Toluene	<2 µg/kg	TM089		4.33 M	19.8 M	3.26 M	<2 M		
Ethylbenzene	<3 µg/kg	TM089		<3 M	<3 M	<3 M	<3 M		
m,p-Xylene	<6 µg/kg	TM089		7.57 M	17.6 M	6.51 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	17.6	<9	<9		
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	37.4	<24	<24		
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10	<10	<10		
Aliphatics >C6-C8	<10 µg/kg	TM089		41.1	17.6	27.1	28.9		
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	<10	<10	<10		
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	<10	<10	<10		
Aliphatics >C12-C16	<100 µg/kg	TM173		4180	8550	3760	3330		
Aliphatics >C16-C21	<100 µg/kg	TM173		10500	32700	11000	15700		
Aliphatics >C21-C35	<100 µg/kg	TM173		77000	188000	12400	50000		
Aliphatics >C35-C44	<100 µg/kg	TM173		30500	64800	<100	4260		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		122000	294000	27100	73300		
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	19.8	<10	<10		
Aromatics >EC8-EC10	<10 µg/kg	TM089		16.2	23.1	14.1	<10		
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	<10	<10	<10		
Aromatics >EC12-EC16	<100 µg/kg	TM173		2340	3140	1590	1860		
Aromatics >EC16-EC21	<100 µg/kg	TM173		5390	12000	3880	4020		
Aromatics >EC21-EC35	<100 µg/kg	TM173		42500	87300	7930	23800		
Aromatics >EC35-EC44	<100 µg/kg	TM173		19900	35800	1750	14200		
Aromatics >EC40-EC44	<100 µg/kg	TM173		7130	13200	<100	6510		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		70200	138000	15200	43900		
Total Aliphatics >C5-35	<100 µg/kg	TM173		91800	229000	27200	69100		
Total Aromatics >C5-35	<100 µg/kg	TM173		50300	102000	13400	29700		
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		142000	331000	40600	98800		

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

TPH CWG (S)

Results Legend		Customer Sample R	SP66-13	SP66-14	SP66-15	SP66-16		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	.	.	.	.		
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
tot.unfilt	Total / unfiltered sample.	Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012		
*	Subcontracted test.	Sample Time	.	.	.	.		
**	% 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	Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012		
		SDG Ref	121115-81	121115-81	121115-81	121115-81		
(F)	Trigger breach confirmed	Lab Sample No.(s)	6504769	6504770	6504771	6504772		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	192000	432000	42400	117000		

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-1	SP66-2	SP66-3	SP66-4	SP66-5	SP66-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504755	6504756	6504758	6504759	6504760	6504761
			AGS Reference						
Dibromofluoromethane**	%	TM116		99.5	103	101	101	102	102
Toluene-d8**	%	TM116		95.7	95.7	99.3	94.9	102	99.8
4-Bromofluorobenzene**	%	TM116		133	133	112	134	99.8	110
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 M	<4 M	<80 M	<4 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<7	<7	<140	<7	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<10	<10	<200	<10	<200	<200
Bromomethane	<13 µg/kg	TM116		<13 M	<13 M	<260 M	<13 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<14 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<6 M	<120 M	<6 M	<120 M	<120 M
1.1-Dichloroethene	<10 µg/kg	TM116		<10 #	<10 #	<200 #	<10 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<7 M	<7 M	<140 M	<7 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<10 #	<10 #	<200 #	<10 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<11 M	<220 M	<220 M
trans-1-2-Dichloroethene	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<11 M	<220 M	<220 M
1.1-Dichloroethane	<8 µg/kg	TM116		<8 M	<8 M	<160 M	<8 M	<160 M	<160 M
cis-1-2-Dichloroethene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<5 M	<100 M	<100 M
2.2-Dichloropropane	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<12 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<14 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<8 M	<8 M	<160 M	<8 M	<160 M	<160 M
1.1.1-Trichloroethane	<7 µg/kg	TM116		<7 M	<7 M	<140 M	<7 M	<140 M	<140 M
1.1-Dichloropropene	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<11 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<14 M	<280 M	<280 M
1.2-Dichloroethane	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<5 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<9 M	<9 M	<180 M	<9 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<9 M	<9 M	<180 M	<9 M	<180 M	<180 M
1.2-Dichloropropane	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<12 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<9 M	<9 M	<180 M	<9 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<7 M	<140 M	<7 M	<140 M	<140 M
cis-1-3-Dichloropropene	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<14 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	8.95 M	<100 M	<100 M
trans-1-3-Dichloropropene	<14 µg/kg	TM116		<14	<14	<280	<14	<280	<280
1.1.2-Trichloroethane	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<10 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-1	SP66-2	SP66-3	SP66-4	SP66-5	SP66-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504755	6504756	6504758	6504759	6504760	6504761
			AGS Reference						
1.3-Dichloropropane	<7 µg/kg	TM116		<7 #	<7 #	<140 #	<7 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<5 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<13 M	<13 M	<260 M	<13 M	<260 M	<260 M
1.2-Dibromoethane	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<12 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<5 M	<100 M	<100 M
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<10 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 M	<80 M	<4 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<14 #	<14 #	<280 #	15.4 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<10 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<10 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<10 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<5 M	<100 M	<100 M
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116		<10 #	<10 #	<200 #	<10 #	<200 #	<200 #
1.2.3-Trichloropropane	<17 µg/kg	TM116		<17 M	<17 M	<340 M	<17 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<10 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<11 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<9 M	<180 M	<9 M	<180 M	<180 M
1.3.5-Trimethylbenzene	<8 µg/kg	TM116		<8 #	<8 #	<160 #	<8 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<12 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<12 #	<12 #	<240 #	<12 #	<240 #	<240 #
1.2.4-Trimethylbenzene	<9 µg/kg	TM116		<9 #	<9 #	<180 #	<9 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<10 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<11 M	<220 M	<220 M
1.3-Dichlorobenzene	<6 µg/kg	TM116		<6 M	<6 M	<120 M	<6 M	<120 M	<120 M
1.4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<5 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<10 M	<200 M	<200 M
1.2-Dichlorobenzene	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<12 M	<240 M	<240 M
1.2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<14 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<15	<300	<15	<300	<300
1.2.4-Trichlorobenzene	<6 µg/kg	TM116		<6 #	<6 #	<120 #	<6 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<12	<240	<12	<240	<240
Naphthalene	<13 µg/kg	TM116		<13 M	<13 M	<260 M	<13 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-1	SP66-2	SP66-3	SP66-4	SP66-5	SP66-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504755	6504756	6504758	6504759	6504760	6504761
			AGS Reference						
1.2.3-Trichlorobenzene	<6 µg/kg	TM116		<6 M	<6 M	<120 M	<6 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-7	SP66-8	SP66-9	SP66-10	SP66-11	SP66-12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504762	6504764	6504765	6504766	6504767	6504768
			AGS Reference						
Dibromofluoromethane**	%	TM116		95.5	97.8	100	98.3	102	106
Toluene-d8**	%	TM116		96.2	96.4	99.4	95.8	99	100
4-Bromofluorobenzene**	%	TM116		130	130	110	135	107	115
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 M	<8 M	<80 M	<4 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<7	<14	<140	<7	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<10	<20	<200	<10	<200	<200
Bromomethane	<13 µg/kg	TM116		<13 M	<26 M	<260 M	<13 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<14 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<12 M	<120 M	<6 M	<120 M	<120 M
1.1-Dichloroethene	<10 µg/kg	TM116		<10 #	<20 #	<200 #	<10 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<7 M	<14 M	<140 M	<7 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<10 #	<20 #	<200 #	<10 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<11 M	<220 M	<220 M
trans-1-2-Dichloroethene	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<11 M	<220 M	<220 M
1.1-Dichloroethane	<8 µg/kg	TM116		<8 M	<16 M	<160 M	<8 M	<160 M	<160 M
cis-1-2-Dichloroethene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<5 M	<100 M	<100 M
2.2-Dichloropropane	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<12 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<14 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<8 M	<16 M	<160 M	<8 M	<160 M	<160 M
1.1.1-Trichloroethane	<7 µg/kg	TM116		<7 M	<14 M	<140 M	<7 M	<140 M	<140 M
1.1-Dichloropropene	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<11 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<14 M	<280 M	<280 M
1.2-Dichloroethane	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<5 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<9 M	<18 M	<180 M	<9 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<9 M	<18 M	<180 M	<9 M	<180 M	<180 M
1.2-Dichloropropane	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<12 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<9 M	<18 M	<180 M	<9 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<14 M	<140 M	<7 M	<140 M	<140 M
cis-1-3-Dichloropropene	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<14 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	6.83 M	<100 M	202 M
trans-1-3-Dichloropropene	<14 µg/kg	TM116		<14	<28	<280	<14	<280	<280
1.1.2-Trichloroethane	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<10 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-7	SP66-8	SP66-9	SP66-10	SP66-11	SP66-12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504762	6504764	6504765	6504766	6504767	6504768
			AGS Reference						
1.3-Dichloropropane	<7 µg/kg	TM116		<7 #	<14 #	<140 #	<7 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<5 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<13 M	<26 M	<260 M	<13 M	<260 M	<260 M
1.2-Dibromoethane	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<12 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<5 M	<100 M	<100 M
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<10 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<8 M	<80 M	5.99 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<14 #	<28 #	<280 #	15.8 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<10 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<10 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<10 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<5 M	<100 M	<100 M
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116		<10 #	<20 #	<200 #	<10 #	<200 #	<200 #
1.2.3-Trichloropropane	<17 µg/kg	TM116		<17 M	<34 M	<340 M	<17 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<10 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<11 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<18 M	<180 M	<9 M	<180 M	<180 M
1.3.5-Trimethylbenzene	<8 µg/kg	TM116		<8 #	<16 #	<160 #	<8 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<12 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<12 #	<24 #	<240 #	<12 #	<240 #	<240 #
1.2.4-Trimethylbenzene	<9 µg/kg	TM116		<9 #	<18 #	<180 #	<9 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<10 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<11 M	<22 M	<220 M	<11 M	<220 M	<220 M
1.3-Dichlorobenzene	<6 µg/kg	TM116		<6 M	<12 M	<120 M	<6 M	<120 M	<120 M
1.4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<10 M	<100 M	<5 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<10 M	<20 M	<200 M	<10 M	<200 M	<200 M
1.2-Dichlorobenzene	<12 µg/kg	TM116		<12 M	<24 M	<240 M	<12 M	<240 M	<240 M
1.2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<28 M	<280 M	<14 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<30	<300	<15	<300	<300
1.2.4-Trichlorobenzene	<6 µg/kg	TM116		<6 #	<12 #	<120 #	<6 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<24	<240	<12	<240	<240
Naphthalene	<13 µg/kg	TM116		<13 M	<26 M	<260 M	<13 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-7	SP66-8	SP66-9	SP66-10	SP66-11	SP66-12
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012	12/11/2012
			Sample Time	.	.	.	.	.	.
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012	14/11/2012
			SDG Ref	121115-81	121115-81	121115-81	121115-81	121115-81	121115-81
			Lab Sample No.(s)	6504762	6504764	6504765	6504766	6504767	6504768
			AGS Reference						
1.2.3-Trichlorobenzene	<6 µg/kg	TM116		<6 M	<12 M	<120 M	<6 M	<120 M	<120 M

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-13	SP66-14	SP66-15	SP66-16		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012		
			Sample Time	.	.	.	.		
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012		
			SDG Ref	121115-81	121115-81	121115-81	121115-81		
			Lab Sample No.(s)	6504769	6504770	6504771	6504772		
			AGS Reference						
Dibromofluoromethane**	%	TM116		101	100	101	101		
Toluene-d8**	%	TM116		97.5	97.8	98.7	99.4		
4-Bromofluorobenzene**	%	TM116		117	111	107	105		
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M		
Chloromethane	<7 µg/kg	TM116		<140	<140	<140	<140		
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200	<200		
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M		
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M		
1.1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #		
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M		
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #		
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M		
trans-1-2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M		
1.1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M		
cis-1-2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
2.2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<160 M	<160 M		
1.1.1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M		
1.1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M		
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
1.2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M		
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M		
1.2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M		
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<140 M	<140 M		
cis-1-3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
Toluene	<5 µg/kg	TM116		<100 M	178 M	<100 M	<100 M		
trans-1-3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280	<280		
1.1.2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-13	SP66-14	SP66-15	SP66-16		
			Depth (m)	.	.	.	.		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012		
			Sample Time	.	.	.	.		
			Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012		
			SDG Ref	121115-81	121115-81	121115-81	121115-81		
			Lab Sample No.(s)	6504769	6504770	6504771	6504772		
			AGS Reference						
1.3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #	<140 #		
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M		
1.2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
1.1.1.2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 M	<80 M	<80 M		
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #	<280 #		
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
1.1.2.2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #	<200 #		
1.2.3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<340 M	<340 M		
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M		
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<180 M	<180 M		
1.3.5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #	<160 #		
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #	<240 #		
1.2.4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<180 #	<180 #		
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<220 M	<220 M		
1.3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<120 M	<120 M		
1.4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<100 M	<100 M		
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<200 M	<200 M		
1.2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<240 M	<240 M		
1.2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<280 M	<280 M		
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300	<300		
1.2.4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #	<120 #		
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240	<240		
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<260 M	<260 M		

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

VOC MS (S)

Results Legend		Customer Sample R	SP66-13	SP66-14	SP66-15	SP66-16		
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	.	.	.	.		
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
tot.unfilt	Total / unfiltered sample.	Date Sampled	12/11/2012	12/11/2012	12/11/2012	12/11/2012		
*	Subcontracted test.	Sample Time	.	.	.	.		
**	% 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	Date Received	14/11/2012	14/11/2012	14/11/2012	14/11/2012		
		SDG Ref	121115-81	121115-81	121115-81	121115-81		
(F)	Trigger breach confirmed	Lab Sample No.(s)	6504769	6504770	6504771	6504772		
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
1.2.3-Trichlorobenzene	<6 µg/kg	TM116	<120 M	<120 M	<120 M	<120 M		

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Asbestos Identification - Soil

		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 Receieved SDG Original Sample Method Number	SP66-1 SOLID 12/11/2012 00:00:00 121115-81 6504755 TM048	28/11/12	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 Receieved SDG Original Sample Method Number	SP66-2 SOLID 12/11/2012 00:00:00 121115-81 6504756 TM048	28/11/12	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 Receieved SDG Original Sample Method Number	SP66-3 SOLID 12/11/2012 00:00:00 121115-81 6504758 TM048	28/11/12	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 Receieved SDG Original Sample Method Number	SP66-4 SOLID 12/11/2012 00:00:00 121115-81 6504759 TM048	28/11/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-5 SOLID 12/11/2012 00:00:00 121115-81 6504760 TM048	28/11/12	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

		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 Receieved SDG Original Sample Method Number	SP66-6 SOLID 12/11/2012 00:00:00 121115-81 6504761 TM048	28/11/12	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 Receieved SDG Original Sample Method Number	SP66-7 SOLID 12/11/2012 00:00:00 121115-81 6504762 TM048	28/11/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-8 SOLID 12/11/2012 00:00:00 121115-81 6504764 TM048	28/11/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-9 SOLID 12/11/2012 00:00:00 121115-81 6504765 TM048	28/11/12	Martin Cotterell	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 Receieved SDG Original Sample Method Number	SP66-10 SOLID 12/11/2012 00:00:00 121115-81 6504766 TM048	28/11/12	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 Receieved SDG Original Sample Method Number	SP66-11 SOLID 12/11/2012 00:00:00 121115-81 6504767 TM048	28/11/12	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

		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 Receieved SDG Original Sample Method Number	SP66-12 SOLID 12/11/2012 00:00:00 121115-81 6504768 TM048	28/11/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-13 SOLID 12/11/2012 00:00:00 121115-81 6504769 TM048	28/11/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-14 SOLID 12/11/2012 00:00:00 121115-81 6504770 TM048	28/11/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-15 SOLID 12/11/2012 00:00:00 121115-81 6504771 TM048	28/11/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-16 SOLID 12/11/2012 00:00:00 121115-81 6504772 TM048	28/11/12	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

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 Receieved SDG Original Sample Method Number	SP66 Asbestos Composite SOLID 12/11/2012 00:00:00 121115-81 6806332 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Notification of NDPs (No determination possible)

Date Received : 15/11/2012 12:23:27

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
6504758	SP66-3		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6504760	SP66-5		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6504765	SP66-9		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6504767	SP66-11		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

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)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

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

CERTIFICATE OF ANALYSIS

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Test Completion Dates

Lab Sample No(s)	6504755	6504756	6504758	6504759	6504760	6504761	6504762	6504764	6504765	6504766
Customer Sample Ref.	SP66-1	SP66-2	SP66-3	SP66-4	SP66-5	SP66-6	SP66-7	SP66-8	SP66-9	SP66-10
AGS Ref.										
Depth										
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012
EPH CWG (Aliphatic) GC (S)	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	19-Nov-2012
EPH CWG (Aromatic) GC (S)	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	19-Nov-2012
GRO by GC-FID (S)	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012
Metals by iCap-OES (Soil)	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	19-Nov-2012
pH	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012
Sample description	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	15-Nov-2012
Semi Volatile Organic Compounds	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012
Total Organic Carbon	29-Nov-2012	29-Nov-2012		29-Nov-2012		29-Nov-2012	29-Nov-2012	29-Nov-2012		29-Nov-2012
Total Organic Carbon (Asb)			29-Nov-2012		29-Nov-2012				29-Nov-2012	
TPH CWG GC (S)	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	19-Nov-2012
VOC MS (S)	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012

Lab Sample No(s)	6504767	6504768	6504769	6504770	6504771	6504772	6806332
Customer Sample Ref.	SP66-11	SP66-12	SP66-13	SP66-14	SP66-15	SP66-16	SP66 Asbestos Composite
AGS Ref.							
Depth							
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	
Asbestos Quantification - Full							30-Jan-2013
EPH CWG (Aliphatic) GC (S)	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	
EPH CWG (Aromatic) GC (S)	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	
GRO by GC-FID (S)	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	20-Nov-2012	
Metals by iCap-OES (Soil)	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	
pH	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	
Sample description	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	16-Nov-2012	
Semi Volatile Organic Compounds	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	
Total Organic Carbon		29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	29-Nov-2012	
Total Organic Carbon (Asb)	29-Nov-2012						
TPH CWG GC (S)	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	20-Nov-2012	
VOC MS (S)	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	19-Nov-2012	

SDG:	121115-81	**Location:**	Coed Darcy	**Order Number:**	CD0318
Job:	H_ATKINS_LDC-152	**Customer:**	Atkins Global Ltd	**Report Number:**	210568
Client Reference:	SP Samples	**Attention:**	Selina Bamforth	**Superseded Report:**	203851

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 2 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 Dimethyphenol, 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**
§	**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.

ALcontrol Laboratories

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

Attention: Barney Irlam

CERTIFICATE OF ANALYSIS

Date:	04 December 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	141030-25
Your Reference:	SP107 (b)
Location:	Coed Darcy
Report No:	294441

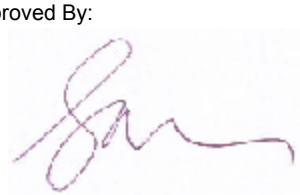
This report has been revised and directly supersedes 291144 in its entirety.

We received 7 samples on Thursday October 30, 2014 and 7 of these samples were scheduled for analysis which was completed on Thursday December 04, 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

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10284749	1		0.00 - 0.00	28/10/2014
10284757	2		0.00 - 0.00	28/10/2014
10284764	3		0.00 - 0.00	28/10/2014
10284768	4		0.00 - 0.00	28/10/2014
10284772	5		0.00 - 0.00	28/10/2014
10284780	6		0.00 - 0.00	28/10/2014
10284784	7		0.00 - 0.00	28/10/2014

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

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			1028749	1		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			1028757	2		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			1028764	3		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			1028768	4		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			1028772	5		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			1028780	6		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			1028784	7		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 7		X			
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 2					
							X
							X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 7	X		X		
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 7	X		X		
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 7		X			
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
Metals in solid samples by OES	All	NDPs: 0 Tests: 7	X		X		
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
PAH by GCMS	All	NDPs: 0 Tests: 7	X		X		
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
pH	All	NDPs: 0 Tests: 7		X			
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
Sample description	All	NDPs: 0 Tests: 7	X		X		
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
Total Organic Carbon	All	NDPs: 0 Tests: 1	X				
TPH CWG GC (S)	All	NDPs: 0 Tests: 7	X		X		
							X
				X			
							X
				X			
							X
				X			
							X
				X			
							X
				X			

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

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
10284749	1	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10284757	2	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
10284764	3	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
10284768	4	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Vegetation	Stones
10284772	5	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
10284780	6	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation
10284784	7	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones

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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	1	2	3	4	5	6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	30/10/2014	30/10/2014	30/10/2014	30/10/2014	30/10/2014	30/10/2014
			SDG Ref	141030-25	141030-25	141030-25	141030-25	141030-25	141030-25
			Lab Sample No.(s)	10284749	10284757	10284764	10284768	10284772	10284780
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		9.3	6.6	9.2	9.1	8.8	3.9
Soil Organic Matter (SOM)	<0.35 %	TM132		2.16 #					
pH	1 pH Units	TM133		8.58 M	8.56 M	8.62 M	8.42 M	8.94 M	8.77 M
Arsenic	<0.6 mg/kg	TM181		20.2 M	17.3 M	17.1 M	54 M	40.2 M	8.17 M
Cadmium	<0.02 mg/kg	TM181		0.0645 M	<0.02 M	0.675 M	0.557 M	0.388 M	0.284 M
Chromium	<0.9 mg/kg	TM181		16.1 M	16.4 M	14.5 M	16.8 M	11.7 M	8.94 M
Copper	<1.4 mg/kg	TM181		40.5 M	24.2 M	39.1 M	265 M	54.9 M	25.1 M
Lead	<0.7 mg/kg	TM181		30.8 M	27.6 M	35.6 M	96.2 M	38.5 M	10.7 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		27.9 M	28.3 M	23.4 M	25 M	17.2 M	13.6 M
Selenium	<1 mg/kg	TM181		1.09 #	<1 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		15.8 #	18.4 #	17.8 #	19.5 #	13.9 #	9.52 #
Zinc	<1.9 mg/kg	TM181		99.6 M	112 M	97 M	107 M	66.2 M	45.2 M

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R					
			7					
Depth (m)			0.00 - 0.00					
Sample Type			Soil/Solid					
Date Sampled			28/10/2014					
Sample Time			.					
Date Received			30/10/2014					
SDG Ref			141030-25					
Lab Sample No.(s)			10284784					
AGS Reference								
Moisture Content Ratio (% of as received sample)	%	PM024	6.5					
pH	1 pH Units	TM133	8.81 M					
Arsenic	<0.6 mg/kg	TM181	13.9 M					
Cadmium	<0.02 mg/kg	TM181	0.304 M					
Chromium	<0.9 mg/kg	TM181	16.5 M					
Copper	<1.4 mg/kg	TM181	26.1 M					
Lead	<0.7 mg/kg	TM181	21.9 M					
Mercury	<0.14 mg/kg	TM181	<0.14 M					
Nickel	<0.2 mg/kg	TM181	30.4 M					
Selenium	<1 mg/kg	TM181	<1 #					
Vanadium	<0.2 mg/kg	TM181	15.4 #					
Zinc	<1.9 mg/kg	TM181	119 M					

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	1	2	3	4	5	6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	30/10/2014	30/10/2014	30/10/2014	30/10/2014	30/10/2014	30/10/2014
			SDG Ref	141030-25	141030-25	141030-25	141030-25	141030-25	141030-25
			Lab Sample No.(s)	10284749	10284757	10284764	10284768	10284772	10284780
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		100	95.3	95.8	96.5	102	96.1
Acenaphthene-d10 % recovery**	%	TM218		97.4	97.3	93.5	94.9	98.8	94.7
Phenanthrene-d10 % recovery**	%	TM218		94.1	94.7	90.3	91.7	93.8	93.1
Chrysene-d12 % recovery**	%	TM218		99.2	90.9	93.1	86.3	96.3	88.2
Perylene-d12 % recovery**	%	TM218		107	95	98.7	85.7	101	92.7
Naphthalene	<9 µg/kg	TM218		21.5 M	16.8 M	15.8 M	18.4 M	21.3 M	22.6 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M	<12 M	19.9 M
Acenaphthene	<8 µg/kg	TM218		<8 M	<8 M	26.3 M	<8 M	<8 M	23.3 M
Fluorene	<10 µg/kg	TM218		<10 M	<10 M	11.1 M	<10 M	<10 M	24.3 M
Phenanthrene	<15 µg/kg	TM218		128 M	83.7 M	83 M	127 M	90.2 M	214 M
Anthracene	<16 µg/kg	TM218		<16 M	<16 M	<16 M	<16 M	<16 M	34.8 M
Fluoranthene	<17 µg/kg	TM218		102 M	77.9 M	70.1 M	65.9 M	75.3 M	259 M
Pyrene	<15 µg/kg	TM218		88.8 M	81.9 M	53.8 M	59.2 M	60.9 M	204 M
Benz(a)anthracene	<14 µg/kg	TM218		78.7 M	44.8 M	37.8 M	42.5 M	52.2 M	157 M
Chrysene	<10 µg/kg	TM218		114 M	84.3 M	57.9 M	80.4 M	75.2 M	160 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		156 M	106 M	53.2 M	95.7 M	81 M	219 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		48.5 M	38.1 M	<14 M	24.4 M	26.5 M	108 M
Benzo(a)pyrene	<15 µg/kg	TM218		86 M	66.2 M	22.8 M	44.8 M	39.5 M	178 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		59.1 M	52.2 M	<18 M	37.1 M	27.3 M	107 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	<23 M	<23 M	42.3 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		77.8 M	71.6 M	<24 M	49.9 M	35.3 M	139 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		960	723	432	645	585	1910

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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)

Customer Sample R	7
Depth (m)	0.00 - 0.00
Sample Type	Soil/Solid
Date Sampled	28/10/2014
Sample Time	.
Date Received	30/10/2014
SDG Ref	141030-25
Lab Sample No.(s)	10284784
AGS Reference	

Component	LOD/Units	Method	
Naphthalene-d8 % recovery**	%	TM218	102
Acenaphthene-d10 % recovery**	%	TM218	97.5
Phenanthrene-d10 % recovery**	%	TM218	93.7
Chrysene-d12 % recovery**	%	TM218	97.1
Perylene-d12 % recovery**	%	TM218	104
Naphthalene	<9 µg/kg	TM218	18.3 M
Acenaphthylene	<12 µg/kg	TM218	<12 M
Acenaphthene	<8 µg/kg	TM218	<8 M
Fluorene	<10 µg/kg	TM218	<10 M
Phenanthrene	<15 µg/kg	TM218	104 M
Anthracene	<16 µg/kg	TM218	<16 M
Fluoranthene	<17 µg/kg	TM218	86.4 M
Pyrene	<15 µg/kg	TM218	77.2 M
Benz(a)anthracene	<14 µg/kg	TM218	74.1 M
Chrysene	<10 µg/kg	TM218	106 M
Benzo(b)fluoranthene	<15 µg/kg	TM218	166 M
Benzo(k)fluoranthene	<14 µg/kg	TM218	57.3 M
Benzo(a)pyrene	<15 µg/kg	TM218	103 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	71.6 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	30.1 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	101 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	995

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	1	2	3	4	5	6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014	28/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	30/10/2014	30/10/2014	30/10/2014	30/10/2014	30/10/2014	30/10/2014
			SDG Ref	141030-25	141030-25	141030-25	141030-25	141030-25	141030-25
			Lab Sample No.(s)	10284749	10284757	10284764	10284768	10284772	10284780
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		96	107	101	120	103	94
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	<176 M	<176 M	<176 M	<176 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 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		<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	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		1360	705	<100	<100	451	1070
Aliphatics >C16-C21	<100 µg/kg	TM173		14700	25700	1080	1210	6070	14000
Aliphatics >C21-C35	<100 µg/kg	TM173		88100	144000	9370	11600	43600	87500
Aliphatics >C35-C44	<100 µg/kg	TM173		27300	37000	3590	2130	11500	18600
Total Aliphatics >C12-C44	<100 µg/kg	TM173		131000	208000	14000	15000	61600	121000
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		<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	792	<100	<100	<100	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		1250	10400	1020	976	2330	6390
Aromatics >EC21-EC35	<100 µg/kg	TM173		37300	91400	6730	9230	32200	65500
Aromatics >EC35-EC44	<100 µg/kg	TM173		11800	35600	3720	3590	12200	20500
Aromatics >EC40-EC44	<100 µg/kg	TM173		2640	13000	1530	1320	4420	6080
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		50400	138000	11500	13800	46700	92400
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		182000	346000	25500	28800	108000	214000

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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)

	Customer Sample R					
	Depth (m)	0.00 - 0.00				
	Sample Type	Soil/Solid				
	Date Sampled	28/10/2014				
	Sample Time	.				
	Date Received	30/10/2014				
	SDG Ref	141030-25				
	Lab Sample No.(s)	10284784				
	AGS Reference	7				
Component	**LOD/Units**	**Method**				
GRO Surrogate % recovery**	%	TM089	104			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 M			
Benzene	<10 µg/kg	TM089	<40 M			
Toluene	<2 µg/kg	TM089	<8 M			
Ethylbenzene	<3 µg/kg	TM089	<12 M			
m,p-Xylene	<6 µg/kg	TM089	<24 M			
o-Xylene	<3 µg/kg	TM089	<12 M			
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9			
sum of detected BTEX by GC	<24 µg/kg	TM089	<24			
Aliphatics >C5-C6	<10 µg/kg	TM089	<40			
Aliphatics >C6-C8	<10 µg/kg	TM089	<40			
Aliphatics >C8-C10	<10 µg/kg	TM089	<40			
Aliphatics >C10-C12	<10 µg/kg	TM089	<40			
Aliphatics >C12-C16	<100 µg/kg	TM173	2990			
Aliphatics >C16-C21	<100 µg/kg	TM173	15300			
Aliphatics >C21-C35	<100 µg/kg	TM173	89000			
Aliphatics >C35-C44	<100 µg/kg	TM173	57300			
Total Aliphatics >C12-C44	<100 µg/kg	TM173	165000			
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40			
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40			
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40			
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40			
Aromatics >EC12-EC16	<100 µg/kg	TM173	6190			
Aromatics >EC16-EC21	<100 µg/kg	TM173	40600			
Aromatics >EC21-EC35	<100 µg/kg	TM173	213000			
Aromatics >EC35-EC44	<100 µg/kg	TM173	85000			
Aromatics >EC40-EC44	<100 µg/kg	TM173	33300			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	344000			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	509000			

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

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 Receieved SDG Original Sample Method Number	1 0.00 - 0.00 SOLID 28/10/2014 00:00:00 31/10/2014 08:35:57 141030-25 10284749 TM048	5/11/14	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	2 0.00 - 0.00 SOLID 28/10/2014 00:00:00 31/10/2014 08:52:10 141030-25 10284757 TM048	5/11/14	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	3 0.00 - 0.00 SOLID 28/10/2014 00:00:00 31/10/2014 08:46:29 141030-25 10284764 TM048	5/11/14	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	4 0.00 - 0.00 SOLID 28/10/2014 00:00:00 31/10/2014 08:43:33 141030-25 10284768 TM048	5/11/14	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	5 0.00 - 0.00 SOLID 28/10/2014 00:00:00 31/10/2014 08:40:14 141030-25 10284772 TM048	5/11/14	Kevin Gill	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

		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 Receieved SDG Original Sample Method Number	6 0.00 - 0.00 SOLID 28/10/2014 00:00:00 31/10/2014 08:54:33 141030-25 10284780 TM048	5/11/14	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	7 0.00 - 0.00 SOLID 28/10/2014 00:00:00 31/10/2014 08:49:40 141030-25 10284784 TM048	5/11/14	Kevin Gill	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

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 Receieved SDG Original Sample Method Number	5 0.00 - 0.00 SOLID 28/10/2014 00:00:00 14/11/2014 12:13:24 141030-25 10284772 TM 304	None (#)	N/C	0.0023 (#)	<0.001 (#)	0.0025 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	7 0.00 - 0.00 SOLID 28/10/2014 00:00:00 14/11/2014 12:16:04 141030-25 10284784 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

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.

CERTIFICATE OF ANALYSIS

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

Test Completion Dates

Lab Sample No(s)	10284749	10284757	10284764	10284768	10284772	10284780	10284784
Customer Sample Ref.	1	2	3	4	5	6	7
AGS Ref.							
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	06-Nov-2014	06-Nov-2014	06-Nov-2014	06-Nov-2014	06-Nov-2014	06-Nov-2014	06-Nov-2014
Asbestos Quantification - Full					04-Dec-2014		04-Dec-2014
EPH CWG (Aliphatic) GC (S)	06-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014
EPH CWG (Aromatic) GC (S)	06-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014	04-Nov-2014
GRO by GC-FID (S)	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014
Metals in solid samples by OES	07-Nov-2014	07-Nov-2014	05-Nov-2014	06-Nov-2014	06-Nov-2014	05-Nov-2014	05-Nov-2014
PAH by GCMS	06-Nov-2014	05-Nov-2014	06-Nov-2014	05-Nov-2014	06-Nov-2014	05-Nov-2014	06-Nov-2014
pH	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014
Sample description	03-Nov-2014	31-Oct-2014	31-Oct-2014	31-Oct-2014	31-Oct-2014	31-Oct-2014	31-Oct-2014
Total Organic Carbon	06-Nov-2014						
TPH CWG GC (S)	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014

SDG:	141030-25	**Location:**	Coed Darcy	**Order Number:**	cd0922
Job:	H_ATKINS_LDC-272	**Customer:**	Atkins Global Ltd	**Report Number:**	294441
Client Reference:	SP107 (b)	**Attention:**	Barney Irlam	**Superseded Report:**	291144

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 Dimethyphenol, 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 presevation 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.

ALcontrol Laboratories

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

Attention: Barney Irlam

CERTIFICATE OF ANALYSIS

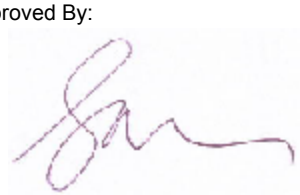
Date:	08 December 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	141024-126
Your Reference:	stockpile 107
Location:	coed darcy
Report No:	294856

We received 25 samples on Friday October 24, 2014 and 25 of these samples were scheduled for analysis which was completed on Monday December 08, 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

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10254355	1		0.00 - 0.00	23/10/2014
10261147	2		0.00 - 0.00	23/10/2014
10261175	3		0.00 - 0.00	23/10/2014
10261179	4		0.00 - 0.00	23/10/2014
10261183	5		0.00 - 0.00	23/10/2014
10261187	6		0.00 - 0.00	23/10/2014
10261191	7		0.00 - 0.00	23/10/2014
10261195	8		0.00 - 0.00	23/10/2014
10261199	9		0.00 - 0.00	23/10/2014
10254360	10		0.00 - 0.00	23/10/2014
10254366	11		0.00 - 0.00	23/10/2014
10254370	12		0.00 - 0.00	23/10/2014
10254374	13		0.00 - 0.00	23/10/2014
10261123	14		0.00 - 0.00	23/10/2014
10261127	15		0.00 - 0.00	23/10/2014
10261131	16		0.00 - 0.00	23/10/2014
10261135	17		0.00 - 0.00	23/10/2014
10261139	18		0.00 - 0.00	23/10/2014
10261143	19		0.00 - 0.00	23/10/2014
10261151	20		0.00 - 0.00	23/10/2014
10261155	21		0.00 - 0.00	23/10/2014
10261159	22		0.00 - 0.00	23/10/2014
10261163	23		0.00 - 0.00	23/10/2014
10261167	24		0.00 - 0.00	23/10/2014
10261171	25		0.00 - 0.00	23/10/2014

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

ALcontrol Laboratories

Validated

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			10254355			10261147			10261175			10261179			10261183			10261187			10261191			10261195			10261199			10254360			10254366			10254370			10254374			10261123
Customer Sample Reference			1			2			3			4			5			6			7			8			9			10			11			12			13			14
AGS Reference																																											
Depth (m)			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 25		X			X			X			X			X			X			X			X			X			X			X			X			X		
Asbestos Quantification - Full	All	NDPs: 0 Tests: 3																							X																
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 25	X			X			X			X			X			X			X			X			X			X			X			X			X			X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 25	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 25	X			X			X			X			X			X			X			X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 25	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 25		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 25	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 3	X																																				X			
TPH CWG GC (S)	All	NDPs: 0 Tests: 25	X			X			X			X			X			X			X			X			X			X			X			X			X			X

16:58:34 08/12/2014

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

SOLID

Results Legend

- X — Test
- N — No Determination Possible

SOLID	Lab Sample No(s)		10261123		10261127			10261131			10261135			10261139			10261143			10261151			10261155			10261159			10261163			10261167			10261171		
	Customer Sample Reference		14		15			16			17			18			19			20			21			22			23			24			25		
	AGS Reference																																				
	Depth (m)		0.00 - 0.00		0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00		
	Container		400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos fibres in Soil*	All	NDPs: 0 Tests: 25	X			X			X			X			X			X			X			X			X			X			X			X	
Asbestos Quantification - Full	All	NDPs: 0 Tests: 3																			X						X										
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 25		X			X			X			X			X			X			X			X			X			X			X			X
Metals in solid samples by OES	All	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
pH	All	NDPs: 0 Tests: 25	X			X			X			X			X			X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 3																					X														
TPH CWG GC (S)	All	NDPs: 0 Tests: 25			X			X			X			X			X			X			X			X			X			X			X		

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**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
10254355	1	0.00 - 0.00	Light Brown	Sandy Clay Loam	0.1 - 2 mm	None	None
10261147	2	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10261175	3	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10261179	4	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10261183	5	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10261187	6	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10261191	7	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10261195	8	0.00 - 0.00	Light Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
10261199	9	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10254360	10	0.00 - 0.00	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10254366	11	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10254370	12	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
10254374	13	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10261123	14	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10261127	15	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	Oil/Petroleum
10261131	16	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
10261135	17	0.00 - 0.00	Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10261139	18	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10261143	19	0.00 - 0.00	Light Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
10261151	20	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10261155	21	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10261159	22	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10261163	23	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10261167	24	0.00 - 0.00	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Stones	None
10261171	25	0.00 - 0.00	Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	1	2	3	4	5	6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10254355	10261147	10261175	10261179	10261183	10261187
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		15	14	10	13	9.2	9.5
Actinolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Anthophyllite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Non-Asbestos Fibres Detected	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Soil Organic Matter (SOM)	<0.35 %	TM132		1.67 #					
pH	1 pH Units	TM133		5.23 M	5.43 M	5.65 M	5.58 M	5.6 M	8.32 M
Arsenic	<0.6 mg/kg	TM181		10.1 M	11.3 M	17 M	8.97 M	9.18 M	12.1 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	<0.02 M	0.0409 M	<0.02 M	<0.02 M	<0.02 M
Chromium	<0.9 mg/kg	TM181		18.4 M	15.9 M	21.4 M	14.7 M	63.9 M	14.2 M
Copper	<1.4 mg/kg	TM181		16.9 M	19.5 M	34.3 M	16.7 M	26.3 M	17.6 M
Lead	<0.7 mg/kg	TM181		13.6 M	15.7 M	37.6 M	13.7 M	41 M	21.7 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		22.6 M	28.5 M	29.4 M	25.1 M	28.7 M	30 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #	<1 #	<1 #	1.15 #
Vanadium	<0.2 mg/kg	TM181		20.2 #	19.9 #	16.7 #	16.1 #	72.6 #	15.2 #
Zinc	<1.9 mg/kg	TM181		61.2 M	83.8 M	114 M	71.4 M	114 M	92.8 M

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	7	8	9	10	11	12
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10261191	10261195	10261199	10254360	10254366	10254370
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		10	11	8.9	13	12	11
Actinolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #	Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Anthophyllite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Non-Asbestos Fibres Detected	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
pH	1 pH Units	TM133		8.31 M	8.36 M	8.25 M	7.4 M	8.63 M	8.54 M
Arsenic	<0.6 mg/kg	TM181		13.9 M	21.6 M	7.96 M	9.35 M	11.9 M	29.5 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	0.0403 M	<0.02 M	<0.02 M	<0.02 M	0.168 M
Chromium	<0.9 mg/kg	TM181		14.2 M	18.4 M	59.9 M	14.7 M	23.5 M	13.7 M
Copper	<1.4 mg/kg	TM181		22.2 M	46.2 M	19 M	19.6 M	33.8 M	66.9 M
Lead	<0.7 mg/kg	TM181		23.4 M	43 M	24.7 M	15.1 M	24.2 M	101 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	0.152 M
Nickel	<0.2 mg/kg	TM181		25.3 M	29.5 M	21.8 M	25.5 M	31.8 M	20.4 M
Selenium	<1 mg/kg	TM181		<1 #	1.01 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		14.2 #	17.1 #	89.6 #	16.6 #	15.6 #	17.1 #
Zinc	<1.9 mg/kg	TM181		110 M	131 M	87.6 M	77.2 M	140 M	360 M

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	13	14	15	16	17	18
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10254374	10261123	10261127	10261131	10261135	10261139
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		13	9.9	11	10	14	12
Actinolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Anthophyllite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Non-Asbestos Fibres Detected	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Soil Organic Matter (SOM)	<0.35 %	TM132		1.47 #					
pH	1 pH Units	TM133		8.26 M	6.14 M	6.22 M	8.43 M	8.48 M	8.41 M
Arsenic	<0.6 mg/kg	TM181		12.9 M	13.6 M	8.48 M	10.5 M	48.7 M	24.5 M
Cadmium	<0.02 mg/kg	TM181		<0.02 M	<0.02 M	<0.02 M	<0.02 M	0.182 M	0.3 M
Chromium	<0.9 mg/kg	TM181		17.1 M	14 M	14.5 M	14.6 M	15.7 M	16.3 M
Copper	<1.4 mg/kg	TM181		112 M	23.4 M	13.7 M	17 M	94.6 M	73.1 M
Lead	<0.7 mg/kg	TM181		34.5 M	27.8 M	15.9 M	19.1 M	25.8 M	166 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	0.274 M
Nickel	<0.2 mg/kg	TM181		36.3 M	32.7 M	26.5 M	32 M	12.7 M	25 M
Selenium	<1 mg/kg	TM181		<1 #	1.08 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		16.9 #	14.3 #	15.3 #	15.5 #	22.4 #	19 #
Zinc	<1.9 mg/kg	TM181		136 M	106 M	86.5 M	97.8 M	61.8 M	386 M

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	19	20	21	22	23	24
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10261143	10261151	10261155	10261159	10261163	10261167
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		13	12	12	11	10	6.2
Actinolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Amosite*	-	SUB (ASB)		Not Detected #	Detected #	Not Detected #	Detected #	Not Detected #	Not Detected #
Anthophyllite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Chrysotile*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Crocidolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Tremolite*	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Non-Asbestos Fibres Detected	-	SUB (ASB)		Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #	Not Detected #
Soil Organic Matter (SOM)	<0.35 %	TM132				1.44 #			
pH	1 pH Units	TM133		8.37 M	8.45 M	8.52 M	8.54 M	8.27 M	8.24 M
Arsenic	<0.6 mg/kg	TM181		9 M	17.7 M	10.3 M	5.89 M	19.2 M	25 M
Cadmium	<0.02 mg/kg	TM181		0.215 M	<0.02 M	0.0574 M	<0.02 M	0.179 M	0.247 M
Chromium	<0.9 mg/kg	TM181		17.4 M	15 M	15 M	17.7 M	14.2 M	15.2 M
Copper	<1.4 mg/kg	TM181		24.4 M	31.7 M	18.3 M	8.44 M	107 M	69.7 M
Lead	<0.7 mg/kg	TM181		13.9 M	39.8 M	16.1 M	12.1 M	109 M	154 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	0.166 M
Nickel	<0.2 mg/kg	TM181		26.6 M	26.5 M	21.8 M	43.5 M	23.9 M	22.3 M
Selenium	<1 mg/kg	TM181		<1 #	1.28 #	<1 #	<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181		18.3 #	15 #	16.8 #	15.5 #	15.4 #	18.6 #
Zinc	<1.9 mg/kg	TM181		98.5 M	95.5 M	78.5 M	77.2 M	260 M	415 M

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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)

	Customer Sample R	LOD/Units	Method
	25		
Depth (m)	0.00 - 0.00		
Sample Type	Soil/Solid		
Date Sampled	23/10/2014		
Sample Time	.		
Date Received	24/10/2014		
SDG Ref	141024-126		
Lab Sample No.(s)	10261171		
AGS Reference			
Component			
Moisture Content Ratio (% of as received sample)	13	%	PM024
Actinolite*	Not Detected #	-	SUB (ASB)
Amosite*	Not Detected #	-	SUB (ASB)
Anthophyllite*	Not Detected #	-	SUB (ASB)
Chrysotile*	Not Detected #	-	SUB (ASB)
Crocidolite*	Not Detected #	-	SUB (ASB)
Tremolite*	Not Detected #	-	SUB (ASB)
Non-Asbestos Fibres Detected	Not Detected #	-	SUB (ASB)
pH	8.26 M	1 pH Units	TM133
Arsenic	22.1 M	<0.6 mg/kg	TM181
Cadmium	1.22 M	<0.02 mg/kg	TM181
Chromium	12.2 M	<0.9 mg/kg	TM181
Copper	46.3 M	<1.4 mg/kg	TM181
Lead	99.6 M	<0.7 mg/kg	TM181
Mercury	<0.14 M	<0.14 mg/kg	TM181
Nickel	17.8 M	<0.2 mg/kg	TM181
Selenium	<1 #	<1 mg/kg	TM181
Vanadium	14.5 #	<0.2 mg/kg	TM181
Zinc	782 M	<1.9 mg/kg	TM181

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	1	2	3	4	5	6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10254355	10261147	10261175	10261179	10261183	10261187
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		100	99.1	95.7	99.8	102	100
Acenaphthene-d10 % recovery**	%	TM218		98.5	99.3	95.3	99.8	102	101
Phenanthrene-d10 % recovery**	%	TM218		96.8	98.6	91.8	99.1	100	101
Chrysene-d12 % recovery**	%	TM218		89.8	94.3	85.9	94.7	93.4	101
Perylene-d12 % recovery**	%	TM218		95.8	103	89.1	107	88.5	115
Naphthalene	<9 µg/kg	TM218		<9 & M	<9 & M	30.5 & M	<9 & M	48.7 & M	11.9 & M
Acenaphthylene	<12 µg/kg	TM218		<12 & M	<12 & M	13.8 & M	<12 & M	<12 & M	<12 & M
Acenaphthene	<8 µg/kg	TM218		<8 & M	<8 & M	10.4 & M	<8 & M	<8 & M	<8 & M
Fluorene	<10 µg/kg	TM218		<10 & M	<10 & M	15.6 & M	<10 & M	12.2 & M	<10 & M
Phenanthrene	<15 µg/kg	TM218		60.3 & M	63.2 & M	160 & M	66.2 & M	183 & M	73.7 & M
Anthracene	<16 µg/kg	TM218		<16 & M	<16 & M	23.1 & M	<16 & M	<16 & M	<16 & M
Fluoranthene	<17 µg/kg	TM218		<17 & M	<17 & M	150 & M	<17 & M	102 & M	37.2 & M
Pyrene	<15 µg/kg	TM218		<15 & M	<15 & M	132 & M	<15 & M	104 & M	37.4 & M
Benz(a)anthracene	<14 µg/kg	TM218		<14 & M	<14 & M	80 & M	20.6 & M	74.7 & M	33.9 & M
Chrysene	<10 µg/kg	TM218		<10 & M	<10 & M	167 & M	17.9 & M	126 & M	30.5 & M
Benzo(b)fluoranthene	<15 µg/kg	TM218		18.7 & M	<15 & M	204 & M	22.7 & M	168 & M	71.6 & M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 & M	<14 & M	87.2 & M	<14 & M	58.1 & M	23.5 & M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 & M	<15 & M	158 & M	<15 & M	94.8 & M	51.8 & M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 & M	<18 & M	130 & M	<18 & M	63.5 & M	39.2 & M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 & M	<23 & M	46 & M	<23 & M	26.1 & M	<23 & M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 & M	<24 & M	183 & M	<24 & M	97.4 & M	51.5 & M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	<118	1590	128	1160	462

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	7	8	9	10	11	12
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10261191	10261195	10261199	10254360	10254366	10254370
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		101	111	100	97.7	100	101
Acenaphthene-d10 % recovery**	%	TM218		99.6	109	101	97.2	100	103
Phenanthrene-d10 % recovery**	%	TM218		99.5	108	100	94.5	101	103
Chrysene-d12 % recovery**	%	TM218		95.2	99.7	98.3	84.3	99.2	98.2
Perylene-d12 % recovery**	%	TM218		107	101	113	75	111	109
Naphthalene	<9 µg/kg	TM218		21.5 & M	46.6 & M	44 & M	<9 & M	13.8 & M	77.8 & M
Acenaphthylene	<12 µg/kg	TM218		<12 & M	<12 & M	<12 & M	<12 & M	<12 & M	<12 & M
Acenaphthene	<8 µg/kg	TM218		<8 & M	13.2 & M	<8 & M	<8 & M	<8 & M	11.6 & M
Fluorene	<10 µg/kg	TM218		<10 & M	15.8 & M	15.5 & M	<10 & M	<10 & M	55.9 & M
Phenanthrene	<15 µg/kg	TM218		105 & M	189 & M	171 & M	68.8 & M	65.6 & M	259 & M
Anthracene	<16 µg/kg	TM218		<16 & M	23.7 & M	20.6 & M	<16 & M	<16 & M	61.9 & M
Fluoranthene	<17 µg/kg	TM218		52.7 & M	175 & M	133 & M	<17 & M	27.6 & M	260 & M
Pyrene	<15 µg/kg	TM218		49.3 & M	154 & M	123 & M	<15 & M	28.1 & M	418 & M
Benz(a)anthracene	<14 µg/kg	TM218		43.8 & M	132 & M	120 & M	<14 & M	<14 & M	242 & M
Chrysene	<10 µg/kg	TM218		50.5 & M	183 & M	130 & M	24.1 & M	<10 & M	224 & M
Benzo(b)fluoranthene	<15 µg/kg	TM218		101 & M	284 & M	194 & M	<15 & M	42.8 & M	299 & M
Benzo(k)fluoranthene	<14 µg/kg	TM218		24.7 & M	95.9 & M	60.4 & M	<14 & M	<14 & M	118 & M
Benzo(a)pyrene	<15 µg/kg	TM218		57.1 & M	172 & M	143 & M	<15 & M	25.2 & M	204 & M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		41.9 & M	135 & M	90.3 & M	<18 & M	<18 & M	115 & M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 & M	48.1 & M	33.3 & M	<23 & M	<23 & M	43.4 & M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		53.8 & M	197 & M	115 & M	<24 & M	<24 & M	148 & M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		601	1870	1390	<118	203	2540

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	13	14	15	16	17	18
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10254374	10261123	10261127	10261131	10261135	10261139
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		96.6	97.4	97.5	95.4	103	95.8
Acenaphthene-d10 % recovery**	%	TM218		96.2	95.6	98.4	94.3	102	96.7
Phenanthrene-d10 % recovery**	%	TM218		91.8	92.6	98.9	90.9	101	98.6
Chrysene-d12 % recovery**	%	TM218		87.6	87.6	91.2	84.8	93.5	98.3
Perylene-d12 % recovery**	%	TM218		92.1	91.3	86.9	89.9	102	108
Naphthalene	<9 µg/kg	TM218		29.4 & M	18.8 & M	<9 & M	20.2 & M	<9 & M	304 & M
Acenaphthylene	<12 µg/kg	TM218		<12 & M	<12 & M	<12 & M	<12 & M	<12 & M	<12 & M
Acenaphthene	<8 µg/kg	TM218		<8 & M	<8 & M	<8 & M	<8 & M	<8 & M	12.2 & M
Fluorene	<10 µg/kg	TM218		<10 & M	<10 & M	<10 & M	<10 & M	<10 & M	111 & M
Phenanthrene	<15 µg/kg	TM218		116 & M	104 & M	49.4 & M	134 & M	<15 & M	1030 & M
Anthracene	<16 µg/kg	TM218		<16 & M	<16 & M	<16 & M	<16 & M	<16 & M	84.4 & M
Fluoranthene	<17 µg/kg	TM218		72.6 & M	49.6 & M	20.8 & M	22.5 & M	<17 & M	337 & M
Pyrene	<15 µg/kg	TM218		78.2 & M	52.8 & M	22.1 & M	18.2 & M	<15 & M	916 & M
Benz(a)anthracene	<14 µg/kg	TM218		42.7 & M	25.2 & M	<14 & M	19.2 & M	<14 & M	665 & M
Chrysene	<10 µg/kg	TM218		71.8 & M	61.1 & M	26.3 & M	61.5 & M	<10 & M	1180 & M
Benzo(b)fluoranthene	<15 µg/kg	TM218		77.1 & M	105 & M	31.7 & M	39.7 & M	<15 & M	407 & M
Benzo(k)fluoranthene	<14 µg/kg	TM218		40.6 & M	37.4 & M	<14 & M	<14 & M	<14 & M	97 & M
Benzo(a)pyrene	<15 µg/kg	TM218		74.3 & M	54.8 & M	<15 & M	<15 & M	<15 & M	287 & M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		60 & M	47.5 & M	<18 & M	<18 & M	<18 & M	112 & M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 & M	<23 & M	<23 & M	<23 & M	<23 & M	89.3 & M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		80.2 & M	71.2 & M	<24 & M	<24 & M	<24 & M	147 & M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		743	627	150	315	<118	5780

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	19	20	21	22	23	24
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10261143	10261151	10261155	10261159	10261163	10261167
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		97.2	93.8	102	93	106	98.7
Acenaphthene-d10 % recovery**	%	TM218		96.6	92.2	103	92	108	100
Phenanthrene-d10 % recovery**	%	TM218		91.1	89.1	103	88.7	108	99.9
Chrysene-d12 % recovery**	%	TM218		85.9	92	101	93	104	97
Perylene-d12 % recovery**	%	TM218		85.9	102	115	104	118	109
Naphthalene	<9 µg/kg	TM218		<9 & M	20.6 & M	11.7 & M	<9 & M	91.3 & M	73.3 & M
Acenaphthylene	<12 µg/kg	TM218		<12 & M	<12 & M	<12 & M	<12 & M	<12 & M	<12 & M
Acenaphthene	<8 µg/kg	TM218		<8 & M	<8 & M	<8 & M	<8 & M	20.8 & M	13.1 & M
Fluorene	<10 µg/kg	TM218		<10 & M	<10 & M	11.8 & M	<10 & M	83.7 & M	42.6 & M
Phenanthrene	<15 µg/kg	TM218		44.8 & M	102 & M	86.3 & M	47 & M	333 & M	294 & M
Anthracene	<16 µg/kg	TM218		<16 & M	<16 & M	<16 & M	<16 & M	77.9 & M	42.8 & M
Fluoranthene	<17 µg/kg	TM218		<17 & M	92.3 & M	36.7 & M	<17 & M	415 & M	335 & M
Pyrene	<15 µg/kg	TM218		<15 & M	73.7 & M	44.4 & M	<15 & M	498 & M	455 & M
Benz(a)anthracene	<14 µg/kg	TM218		<14 & M	79.8 & M	26.1 & M	<14 & M	354 & M	210 & M
Chrysene	<10 µg/kg	TM218		<10 & M	96.5 & M	24.9 & M	<10 & M	254 & M	220 & M
Benzo(b)fluoranthene	<15 µg/kg	TM218		<15 & M	125 & M	58.5 & M	<15 & M	524 & M	278 & M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 & M	45.8 & M	<14 & M	<14 & M	161 & M	114 & M
Benzo(a)pyrene	<15 µg/kg	TM218		<15 & M	96.9 & M	24.8 & M	<15 & M	317 & M	227 & M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 & M	56.4 & M	<18 & M	<18 & M	196 & M	140 & M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 & M	<23 & M	<23 & M	<23 & M	74.6 & M	51.9 & M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 & M	65.4 & M	<24 & M	<24 & M	228 & M	174 & M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		<118	855	325	<118	3630	2670

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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)

	Customer Sample R	
	Depth (m)	0.00 - 0.00
	Sample Type	Soil/Solid
	Date Sampled	23/10/2014
	Sample Time	.
	Date Received	24/10/2014
	SDG Ref	141024-126
	Lab Sample No.(s)	10261171
	AGS Reference	25

Component	LOD/Units	Method	
Naphthalene-d8 % recovery**	%	TM218	106
Acenaphthene-d10 % recovery**	%	TM218	107
Phenanthrene-d10 % recovery**	%	TM218	106
Chrysene-d12 % recovery**	%	TM218	103
Perylene-d12 % recovery**	%	TM218	115
Naphthalene	<9 µg/kg	TM218	68.2 & M
Acenaphthylene	<12 µg/kg	TM218	<12 & M
Acenaphthene	<8 µg/kg	TM218	22.5 & M
Fluorene	<10 µg/kg	TM218	76 & M
Phenanthrene	<15 µg/kg	TM218	386 & M
Anthracene	<16 µg/kg	TM218	67.5 & M
Fluoranthene	<17 µg/kg	TM218	245 & M
Pyrene	<15 µg/kg	TM218	332 & M
Benz(a)anthracene	<14 µg/kg	TM218	160 & M
Chrysene	<10 µg/kg	TM218	241 & M
Benzo(b)fluoranthene	<15 µg/kg	TM218	287 & M
Benzo(k)fluoranthene	<14 µg/kg	TM218	81.3 & M
Benzo(a)pyrene	<15 µg/kg	TM218	136 & M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	74.5 & M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	35.1 & M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	96.9 & M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2310

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	1	2	3	4	5	6
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10254355	10261147	10261175	10261179	10261183	10261187
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		90	83	92 &	94	92	92
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	<176 M	<44 & M	<176 M	<176 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<5 & M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<10 & M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<2 & M	15 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<3 & M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<6 & M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<3 & M	<12 M	<12 M	<12 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		<40	<40	<10 &	<40	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40	<10 &	<40	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	<40	<10 &	<40	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<10 &	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	1140	<100	616	232
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	100000	<100	7140	5090
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	115000	<100	138000	37300
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	58900	<100	98400	24600
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	275000	<100	244000	67200
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<10 &	<40	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<10 &	<40	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	<40	<10 &	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<10 &	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	3200	<100	1810	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	<100	76400	<100	7360	1600
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	<100	149000	<100	159000	24600
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	81500	<100	145000	19100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	43700	<100	62900	8020
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	<100	310000	<100	314000	45300
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		<100	<100	585000	<100	558000	113000

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	7	8	9	10	11	12
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10261191	10261195	10261199	10254360	10254366	10254370
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		100	106 &	127	118 &	88	102
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	<176 & M	<176 M	<880 & M	<176 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 & M	<20 M	<100 & M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 & M	<40 M	<200 & M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 & M	<8 M	<40 & M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 & M	<12 M	<60 & M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 & M	<24 M	<120 & M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 & M	<12 M	<60 & M	<12 M	<12 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		<40	<40 &	<40	<200 &	<40	<40
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40 &	<40	<200 &	<40	<40
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	<40 &	<40	<200 &	<40	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40 &	<40	<200 &	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		3750	<100	<100	<100	463	10400
Aliphatics >C16-C21	<100 µg/kg	TM173		73400	1330	<100	<100	13500	150000
Aliphatics >C21-C35	<100 µg/kg	TM173		183000	12400	3430	<100	89100	420000
Aliphatics >C35-C44	<100 µg/kg	TM173		96000	2800	105	<100	21400	66600
Total Aliphatics >C12-C44	<100 µg/kg	TM173		357000	16600	3530	<100	125000	647000
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40 &	<40	<200 &	<40	<40
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40 &	<40	<200 &	<40	<40
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	<40 &	<40	<200 &	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40 &	<40	<200 &	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		5320	<100	1210	<100	1740	9620
Aromatics >EC16-EC21	<100 µg/kg	TM173		51200	1590	1700	<100	8410	72600
Aromatics >EC21-EC35	<100 µg/kg	TM173		165000	15300	5800	<100	96400	269000
Aromatics >EC35-EC44	<100 µg/kg	TM173		77900	8570	677	<100	37700	79400
Aromatics >EC40-EC44	<100 µg/kg	TM173		31100	3200	147	<100	12800	29800
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		299000	25500	9390	<100	144000	431000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		656000	42100	13000	<100	269000	1080000

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	13	14	15	16	17	18
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10254374	10261123	10261127	10261131	10261135	10261139
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		96	109	83	74	82	132
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	<176 M	<176 M	<176 M	<176 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 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		<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	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		254	261	444	<100	<100	20800
Aliphatics >C16-C21	<100 µg/kg	TM173		7880	4710	9750	979	<100	113000
Aliphatics >C21-C35	<100 µg/kg	TM173		70200	34600	24000	16600	650	259000
Aliphatics >C35-C44	<100 µg/kg	TM173		19200	11900	3340	7040	<100	54200
Total Aliphatics >C12-C44	<100 µg/kg	TM173		97600	51500	37600	24600	650	447000
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		<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		301	191	162	<100	<100	11200
Aromatics >EC16-EC21	<100 µg/kg	TM173		3620	1640	5330	899	<100	54400
Aromatics >EC21-EC35	<100 µg/kg	TM173		63800	24000	33000	17800	3790	229000
Aromatics >EC35-EC44	<100 µg/kg	TM173		32500	14900	16300	16000	2030	82800
Aromatics >EC40-EC44	<100 µg/kg	TM173		10700	5120	6660	6320	937	30800
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		100000	40700	54800	34700	5820	377000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		198000	92200	92300	59400	6470	824000

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	19	20	21	22	23	24
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014	23/10/2014
			Sample Time	.	.	.	.	.	.
			Date Received	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014	24/10/2014
			SDG Ref	141024-126	141024-126	141024-126	141024-126	141024-126	141024-126
			Lab Sample No.(s)	10261143	10261151	10261155	10261159	10261163	10261167
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		80	85 &	108	74	101	91
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	<176 & M	<176 M	<176 M	<176 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 & M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 & M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 & M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 & M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 & M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 & M	<12 M	<12 M	<12 M	<12 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		<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	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40 &	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	1170	615	<100	10200	17800
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	3930	7210	<100	126000	132000
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	16100	43200	<100	387000	329000
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	7020	11200	<100	74800	57400
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	28300	62300	<100	597000	536000
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		<40	<40 &	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40 &	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	<100	<100	<100	7030	9350
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	712	2620	<100	42600	59200
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	9630	19200	<100	206000	250000
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	6910	4570	<100	68100	82800
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	3280	1030	<100	24900	31000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	17200	26400	<100	324000	401000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		<100	45600	88700	<100	922000	937000

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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)

	Customer Sample R
	25
Depth (m)	0.00 - 0.00
Sample Type	Soil/Solid
Date Sampled	23/10/2014
Sample Time	.
Date Received	24/10/2014
SDG Ref	141024-126
Lab Sample No.(s)	10261171
AGS Reference	

Component	LOD/Units	Method					
GRO Surrogate % recovery**	%	TM089	86				
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176 M				
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 M				
Benzene	<10 µg/kg	TM089	<40 M				
Toluene	<2 µg/kg	TM089	<8 M				
Ethylbenzene	<3 µg/kg	TM089	<12 M				
m,p-Xylene	<6 µg/kg	TM089	<24 M				
o-Xylene	<3 µg/kg	TM089	<12 M				
sum of detected mpo xylene by GC	<9 µg/kg	TM089	<9				
sum of detected BTEX by GC	<24 µg/kg	TM089	<24				
Aliphatics >C5-C6	<10 µg/kg	TM089	<40				
Aliphatics >C6-C8	<10 µg/kg	TM089	<40				
Aliphatics >C8-C10	<10 µg/kg	TM089	<40				
Aliphatics >C10-C12	<10 µg/kg	TM089	<40				
Aliphatics >C12-C16	<100 µg/kg	TM173	20900				
Aliphatics >C16-C21	<100 µg/kg	TM173	111000				
Aliphatics >C21-C35	<100 µg/kg	TM173	255000				
Aliphatics >C35-C44	<100 µg/kg	TM173	54500				
Total Aliphatics >C12-C44	<100 µg/kg	TM173	442000				
Aromatics >EC5-EC7	<10 µg/kg	TM089	<40				
Aromatics >EC7-EC8	<10 µg/kg	TM089	<40				
Aromatics >EC8-EC10	<10 µg/kg	TM089	<40				
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40				
Aromatics >EC12-EC16	<100 µg/kg	TM173	13300				
Aromatics >EC16-EC21	<100 µg/kg	TM173	57300				
Aromatics >EC21-EC35	<100 µg/kg	TM173	181000				
Aromatics >EC35-EC44	<100 µg/kg	TM173	63300				
Aromatics >EC40-EC44	<100 µg/kg	TM173	24600				
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	315000				
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	757000				

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**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 Receieved SDG Original Sample Method Number	8 0.00 - 0.00 SOLID 23/10/2014 00:00:00 14/11/2014 12:57:27 141024-126 10261195 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	20 0.00 - 0.00 SOLID 23/10/2014 00:00:00 14/11/2014 12:55:29 141024-126 10261151 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	22 0.00 - 0.00 SOLID 23/10/2014 00:00:00 14/11/2014 13:00:17 141024-126 10261159 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**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		
SUB (ASB)				
TM 304				
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.

CERTIFICATE OF ANALYSIS

SDG:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	10254355	10261147	10261175	10261179	10261183	10261187	10261191	10261195	10261199	10254360
Customer Sample Ref.	1	2	3	4	5	6	7	8	9	10
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014
Asbestos Quantification - Full								08-Dec-2014		
EPH CWG (Aliphatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
EPH CWG (Aromatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
GRO by GC-FID (S)	10-Nov-2014	10-Nov-2014	13-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	11-Nov-2014	10-Nov-2014	12-Nov-2014
Metals in solid samples by OES	12-Nov-2014	12-Nov-2014	10-Nov-2014	12-Nov-2014	12-Nov-2014	10-Nov-2014	12-Nov-2014	10-Nov-2014	12-Nov-2014	12-Nov-2014
PAH by GCMS	09-Nov-2014	09-Nov-2014	12-Nov-2014	09-Nov-2014	11-Nov-2014	09-Nov-2014	09-Nov-2014	12-Nov-2014	09-Nov-2014	11-Nov-2014
pH	10-Nov-2014	10-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	11-Nov-2014	07-Nov-2014	07-Nov-2014
Sample description	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	03-Nov-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014
Total Organic Carbon	13-Nov-2014									
TPH CWG GC (S)	12-Nov-2014	12-Nov-2014	13-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014

Lab Sample No(s)	10254366	10254370	10254374	10261123	10261127	10261131	10261135	10261139	10261143	10261151
Customer Sample Ref.	11	12	13	14	15	16	17	18	19	20
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014
Asbestos Quantification - Full										08-Dec-2014
EPH CWG (Aliphatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
EPH CWG (Aromatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
GRO by GC-FID (S)	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	11-Nov-2014
Metals in solid samples by OES	10-Nov-2014	12-Nov-2014	10-Nov-2014	10-Nov-2014	12-Nov-2014	10-Nov-2014	12-Nov-2014	12-Nov-2014	10-Nov-2014	10-Nov-2014
PAH by GCMS	09-Nov-2014	09-Nov-2014	12-Nov-2014	12-Nov-2014	11-Nov-2014	12-Nov-2014	09-Nov-2014	09-Nov-2014	12-Nov-2014	09-Nov-2014
pH	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014	10-Nov-2014
Sample description	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014
Total Organic Carbon			11-Nov-2014							
TPH CWG GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014

Lab Sample No(s)	10261155	10261159	10261163	10261167	10261171
Customer Sample Ref.	21	22	23	24	25
AGS Ref.					
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos fibres in Soil*	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014	05-Nov-2014
Asbestos Quantification - Full		08-Dec-2014			
EPH CWG (Aliphatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
EPH CWG (Aromatic) GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
GRO by GC-FID (S)	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014	10-Nov-2014
Metals in solid samples by OES	12-Nov-2014	10-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014
PAH by GCMS	09-Nov-2014	09-Nov-2014	09-Nov-2014	09-Nov-2014	09-Nov-2014
pH	07-Nov-2014	10-Nov-2014	07-Nov-2014	07-Nov-2014	07-Nov-2014
Sample description	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014	30-Oct-2014
Total Organic Carbon	13-Nov-2014				
TPH CWG GC (S)	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014	12-Nov-2014

Derwentside Environmental Testing Services

Certificate of Analysis

Certificate Number 14-19355

03-Nov-14

Client	Alcontrol Laboratories Units 7 & 8 Hawarden Business Park Manor Road Hawarden Deeside CH5 3US
Our Reference	14-19355
Client Reference	141024-126
Contract Title	141024-126
Description	25 Soil samples.
Date Received	29-Oct-14
Date Started	29-Oct-14
Date Completed	03-Nov-14
Test Procedures	Asbestos Analysis DETSC 1101.
Notes	Opinions and interpretations are outside the scope of UKAS accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. Observations and interpretations are outside the scope of ISO 17025. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Rob Brown
Business Manager

UKAS TESTING
2139

Summary of Asbestos Analysis
Soil Samples

Our Ref 14-19355
Client Ref 141024-126
Contract Title 141024-126

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
721106	10269214 1	SOIL	NAD	none	Jeff Cruddas
721107	10269202 10	SOIL	NAD	none	Jeff Cruddas
721108	10269227 11	SOIL	NAD	none	Jeff Cruddas
721109	10269189 12	SOIL	NAD	none	Jeff Cruddas
721110	10269208 13	SOIL	NAD	none	Jeff Cruddas
721111	10269217 14	SOIL	NAD	none	Jeff Cruddas
721112	10269222 15	SOIL	NAD	none	Jeff Cruddas
721113	10269064 16	SOIL	NAD	none	Jeff Cruddas
721114	10269230 17	SOIL	NAD	none	Jeff Cruddas
721115	10269090 18	SOIL	NAD	none	Jeff Cruddas
721116	10269030 19	SOIL	NAD	none	Jeff Cruddas
721117	10269193 2	SOIL	NAD	none	Jeff Cruddas
721118	10269048 20	SOIL	Amosite	Amosite present as fibre bundles	Jeff Cruddas
721119	10269021 21	SOIL	NAD	none	Jeff Cruddas
721120	10269041 22	SOIL	Amosite	Amosite present as fibre bundles	Jeff Cruddas
721121	10269081 23	SOIL	NAD	none	Jeff Cruddas
721122	10269200 24	SOIL	NAD	none	Jeff Cruddas
721123	10269213 25	SOIL	NAD	none	Jeff Cruddas
721124	10269224 3	SOIL	NAD	none	Jeff Cruddas
721125	10269218 4	SOIL	NAD	none	Jeff Cruddas
721126	10269195 5	SOIL	NAD	none	Jeff Cruddas
721127	10269076 6	SOIL	NAD	none	Jeff Cruddas
721128	10269104 7	SOIL	NAD	none	Jeff Cruddas
721129	10269098 8	SOIL	Amosite	Amosite present as fibre bundles	Jeff Cruddas
721130	10269006 9	SOIL	NAD	none	Jeff Cruddas

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 14-19355
Client Ref 141024-126
Contract 141024-126

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
721106	10269214 SOIL	23/10/14	PT 500ml		
721107	10269202 SOIL	23/10/14	PT 500ml		
721108	10269227 SOIL	23/10/14	PT 500ml		
721109	10269189 SOIL	23/10/14	PT 500ml		
721110	10269208 SOIL	23/10/14	PT 500ml		
721111	10269217 SOIL	23/10/14	PT 500ml		
721112	10269222 SOIL	23/10/14	PT 500ml		
721113	10269064 SOIL	23/10/14	PT 500ml		
721114	10269230 SOIL	23/10/14	PT 500ml		
721115	10269090 SOIL	23/10/14	PT 500ml		
721116	10269030 SOIL	23/10/14	PT 500ml		
721117	10269193 SOIL	23/10/14	PT 500ml		
721118	10269048 SOIL	23/10/14	PT 500ml		
721119	10269021 SOIL	23/10/14	PT 500ml		
721120	10269041 SOIL	23/10/14	PT 500ml		
721121	10269081 SOIL	23/10/14	PT 500ml		
721122	10269200 SOIL	23/10/14	PT 500ml		
721123	10269213 SOIL	23/10/14	PT 500ml		
721124	10269224 SOIL	23/10/14	PT 500ml		
721125	10269218 SOIL	23/10/14	PT 500ml		
721126	10269195 SOIL	23/10/14	PT 500ml		
721127	10269076 SOIL	23/10/14	PT 500ml		
721128	10269104 SOIL	23/10/14	PT 500ml		
721129	10269098 SOIL	23/10/14	PT 500ml		
721130	10269006 SOIL	23/10/14	PT 500ml		

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:	141024-126	**Location:**	coed darcy	**Order Number:**	cd0907
Job:	H_ATKINS_LDC-270	**Customer:**	Atkins Global Ltd	**Report Number:**	294856
Client Reference:	stockpile 107	**Attention:**	Barney Irlam	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 Dimethyphenol, 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 presevation 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.

ALcontrol Laboratories

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Website: www.alcontrol.com

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

Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

Date:	23 October 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	140919-54
Your Reference:	Phase 30
Location:	Coed Darcy
Report No:	289118

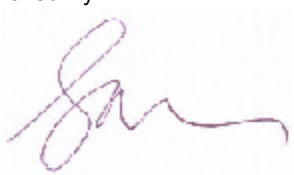
This report has been revised and directly supersedes 287490 in its entirety.

We received 27 samples on Friday September 19, 2014 and 27 of these samples were scheduled for analysis which was completed on Monday October 13, 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

ALcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
10022955	Phase30-1			18/09/2014
10022981	Phase30-2			18/09/2014
10022985	Phase30-3			18/09/2014
10022991	Phase30-4			18/09/2014
10022996	Phase30-5			18/09/2014
10023009	Phase30-6			18/09/2014
10023015	Phase30-7			18/09/2014
10023031	Phase30-8			18/09/2014
10023035	Phase30-9			18/09/2014
10023050	Phase30-10			18/09/2014
10023059	Phase30-11			18/09/2014
10023064	Phase30-12			18/09/2014
10023077	Phase30-13			18/09/2014
10023086	Phase30-14			18/09/2014
10022959	Phase30-15			18/09/2014
10022969	Phase30-16			18/09/2014
10022974	Phase30-17			18/09/2014
10023000	Phase30-18			18/09/2014
10023004	Phase30-19			18/09/2014
10023039	Phase30-20			18/09/2014
10023046	Phase30-21			18/09/2014
10023070	Phase30-22			18/09/2014
10023092	Phase30-23			18/09/2014
10023100	Phase30-24			18/09/2014
10023105	Phase30-25			18/09/2014
10023118	Phase30-26			18/09/2014
10023126	Phase30-27			18/09/2014

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

ALcontrol Laboratories

CERTIFICATE OF ANALYSIS

Validated

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			10022955			10022981			10022985			10022991			10022996			10023009			10023015			10023031			10023035			10023050			10023059			10023064			10023077			10023086
Customer Sample Reference			Phase30-1			Phase30-2			Phase30-3			Phase30-4			Phase30-5			Phase30-6			Phase30-7			Phase30-8			Phase30-9			Phase30-10			Phase30-11			Phase30-12			Phase30-13			Phase30-14
AGS Reference																																										
Depth (m)																																										
Container			250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 27		X			X			X			X			X			X			X			X			X			X			X			X			X		
Asbestos Quantification - Full	All	NDPs: 0 Tests: 15					X			X			X									X			X						X											
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 25	X			X			X			X			X			X			X			X			X			X			X			X						X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 27	X			X			X			X			X			X			X			X			X			X			X			X			X			X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 27			X			X			X			X			X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 27	X			X			X			X			X			X			X			X			X			X			X			X			X			X
PAH by GCMS	All	NDPs: 0 Tests: 27	X			X			X			X			X			X			X			X			X			X			X			X			X			X
pH	All	NDPs: 0 Tests: 27		X			X			X			X			X			X			X			X			X			X			X			X			X		
Sample description	All	NDPs: 0 Tests: 27	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Total Organic Carbon	All	NDPs: 0 Tests: 5	X																											X						X						
TPH CWG GC (S)	All	NDPs: 0 Tests: 27	X			X			X			X			X			X			X			X			X			X			X			X			X			X

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			10023086		10022959			10022969			10022974			10023000			10023004			10023039			10023046			10023070			10023092			10023100			10023105			10023118			10023126	
Customer Sample Reference			Phase30-14		Phase30-15			Phase30-16			Phase30-17			Phase30-18			Phase30-19			Phase30-20			Phase30-21			Phase30-22			Phase30-23			Phase30-24			Phase30-25			Phase30-26			Phase30-27	
AGS Reference																																										
Depth (m)																																										
Container			400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar	400g Tub (ALE214)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 27	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Asbestos Quantification - Full	All	NDPs: 0 Tests: 15	X			X			X									X			X			X						X			X			X						
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 25			X			X						X			X			X			X			X			X			X			X			X			X	
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 27			X			X			X			X			X			X			X			X			X			X			X			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 27		X			X			X			X			X			X			X			X			X			X			X			X			X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 27			X			X			X			X			X			X			X			X			X			X			X			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 27			X			X			X			X			X			X			X			X			X			X			X			X			X	
pH	All	NDPs: 0 Tests: 27	X			X			X			X			X			X			X			X			X			X			X			X			X			X
Sample description	All	NDPs: 0 Tests: 27			X			X			X			X			X			X			X			X			X			X			X			X			X	
Total Organic Carbon	All	NDPs: 0 Tests: 5												X																								X				
TPH CWG GC (S)	All	NDPs: 0 Tests: 27			X			X			X			X			X			X			X			X			X			X			X			X			X	

15:45:05 23/10/2014

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

SOLID

Results Legend

X **Test**

N **No Determination Possible**

Lab Sample No(s)			10023126
Customer Sample Reference			Phase30-27
AGS Reference			
Depth (m)			
Container			60g VOC (ALE215)
GRO by GC-FID (S)	All	NDPs: 0 Tests: 27	X

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

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
10022955	Phase30-1		Light Brown	Sandy Loam	0.1 - 2 mm	None	Stones
10022981	Phase30-2		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10022985	Phase30-3		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10022991	Phase30-4		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10022996	Phase30-5		Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Crushed Brick	Stones
10023009	Phase30-6		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10023015	Phase30-7		Light Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10023031	Phase30-8		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10023035	Phase30-9		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10023050	Phase30-10		Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
10023059	Phase30-11		Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
10023064	Phase30-12		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10023077	Phase30-13		Light Brown	Sandy Loam	0.1 - 2 mm	Crushed Brick	Stones
10023086	Phase30-14		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10022959	Phase30-15		Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
10022969	Phase30-16		Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Crushed Brick	Stones
10022974	Phase30-17		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10023000	Phase30-18		Dark Brown	Sandy Loam	0.1 - 2 mm	Crushed Brick	Stones
10023004	Phase30-19		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10023039	Phase30-20		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10023046	Phase30-21		Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
10023070	Phase30-22		Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
10023092	Phase30-23		Dark Brown	Sandy Loam	0.1 - 2 mm	Crushed Brick	Stones
10023100	Phase30-24		Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	None
10023105	Phase30-25		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	None
10023118	Phase30-26		Dark Brown	Sandy Silt Loam	0.1 - 2 mm	Stones	Vegetation
10023126	Phase30-27		Dark Brown	Sandy Loam	0.1 - 2 mm	Stones	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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-1	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022955	
			Phase30-2	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022981	
			Phase30-3	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022985	
			Phase30-4	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022991	
			Phase30-5	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022996	
			Phase30-6	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023009	
Moisture Content Ratio (% of as received sample)	%	PM024	1.6	6.6	4.8	6.8	6.1	6.5			
Soil Organic Matter (SOM)	<0.35 %	TM132	1.38 #								
pH	1 pH Units	TM133	7.85 M	8.07 M	7.83 M	7.91 M	7.97 M	8.13 M			
Arsenic	<0.6 mg/kg	TM181	13.8 M	10.7 M	12.6 M	14.1 M	17.1 M	22.7 M			
Cadmium	<0.02 mg/kg	TM181	0.412 M	0.362 M	3.34 M	0.614 M	0.585 M	0.994 M			
Chromium	<0.9 mg/kg	TM181	14.1 M	28.3 M	20.5 M	17.8 M	19.1 M	21.4 M			
Copper	<1.4 mg/kg	TM181	23.9 M	38.7 M	45.3 M	45.4 M	52 M	95.9 M			
Lead	<0.7 mg/kg	TM181	27.2 M	52.5 M	61.1 M	51.8 M	70.5 M	77 M			
Mercury	<0.14 mg/kg	TM181	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M			
Nickel	<0.2 mg/kg	TM181	20.5 M	27.6 M	29.9 M	29.6 M	31.5 M	36.3 M			
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #			
Vanadium	<0.2 mg/kg	TM181	16.1 #	14.5 #	19.5 #	16.8 #	16.9 #	20 #			
Zinc	<1.9 mg/kg	TM181	86.4 M	214 M	299 M	165 M	186 M	239 M			

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

Results Legend

#	ISO17025 accredited.
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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	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-7	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023015	
			Phase30-8	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023031	
			Phase30-9	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023035	
			Phase30-10	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023050	
			Phase30-11	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023059	
			Phase30-12	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023064	
Moisture Content Ratio (% of as received sample)	%	PM024	2.1								
Soil Organic Matter (SOM)	<0.35 %	TM132						2.31 #		2.84 #	
pH	1 pH Units	TM133	7.92 M			7.9 M		7.95 M		7.89 M	8.07 M	7.95 M
Arsenic	<0.6 mg/kg	TM181	30.7 M			12.7 M		<0.6 M		17.7 M	<0.6 M	20.4 M
Cadmium	<0.02 mg/kg	TM181	0.719 M			0.593 M		<0.02 M		0.643 M	<0.02 M	0.76 M
Chromium	<0.9 mg/kg	TM181	22.4 M			17.2 M		<0.9 M		20.8 M	<0.9 M	19.7 M
Copper	<1.4 mg/kg	TM181	211 M			47.5 M		<1.4 M		95.7 M	<1.4 M	74.7 M
Lead	<0.7 mg/kg	TM181	150 M			42.3 M		<0.7 M		66.3 M	<0.7 M	82.1 M
Mercury	<0.14 mg/kg	TM181	<0.14 M			<0.14 M		<0.14 M		<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181	33.3 M			29.2 M		<0.2 M		35.3 M	<0.2 M	30.2 M
Selenium	<1 mg/kg	TM181	<1 #			<1 #		<1 #		<1 #	<1 #	<1 #
Vanadium	<0.2 mg/kg	TM181	16.3 #			15.4 #		<0.2 #		20.1 #	<0.2 #	18.3 #
Zinc	<1.9 mg/kg	TM181	668 M			166 M		<1.9 M		188 M	<1.9 M	203 M

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-13	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023077	
			Phase30-14	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023086	
			Phase30-15	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022959	
			Phase30-16	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022969	
			Phase30-17	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022974	
			Phase30-18	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023000	
Moisture Content Ratio (% of as received sample)	%	PM024	2.6	4	7	6.2	5.1	6.3			
Soil Organic Matter (SOM)	<0.35 %	TM132						2.72 #			
pH	1 pH Units	TM133	8.27 M	7.77 M	7.88 M	8.04 M	7.85 M	7.98 M			
Arsenic	<0.6 mg/kg	TM181	19.2 M	14.4 M	20.7 M	17.1 M	11 M	20.6 M			
Cadmium	<0.02 mg/kg	TM181	0.524 M	0.569 M	0.736 M	1.01 M	0.497 M	0.962 M			
Chromium	<0.9 mg/kg	TM181	17.2 M	17 M	18.5 M	14.8 M	18 M	14.7 M			
Copper	<1.4 mg/kg	TM181	119 M	45.2 M	79.8 M	62.1 M	64.5 M	99.3 M			
Lead	<0.7 mg/kg	TM181	58.8 M	46.9 M	89.9 M	67.6 M	40.8 M	74.4 M			
Mercury	<0.14 mg/kg	TM181	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M			
Nickel	<0.2 mg/kg	TM181	28.1 M	34.3 M	30.3 M	27.5 M	29.2 M	26.8 M			
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #			
Vanadium	<0.2 mg/kg	TM181	16.2 #	14.5 #	17.2 #	15.2 #	15.7 #	16.1 #			
Zinc	<1.9 mg/kg	TM181	247 M	247 M	242 M	210 M	139 M	184 M			

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

Results Legend

#	ISO17025 accredited.
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1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-19	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023004	
			Phase30-20	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023039	
			Phase30-21	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023046	
			Phase30-22	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023070	
			Phase30-23	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023092	
			Phase30-24	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023100	
Moisture Content Ratio (% of as received sample)	%	PM024	4.3	6.7	4.9	4.4	4.2	5.6			
pH	1 pH Units	TM133	8.11 M	7.93 M	8 M	7.98 M	8.03 M	8.18 M			
Arsenic	<0.6 mg/kg	TM181	16.4 M	12.1 M	14.9 M	11.8 M	9.41 M	19 M			
Cadmium	<0.02 mg/kg	TM181	0.85 M	0.639 M	0.765 M	0.656 M	0.639 M	0.814 M			
Chromium	<0.9 mg/kg	TM181	16.8 M	19 M	14.5 M	14.8 M	16.9 M	14.7 M			
Copper	<1.4 mg/kg	TM181	80.3 M	36.5 M	81.3 M	41.4 M	39.3 M	75.8 M			
Lead	<0.7 mg/kg	TM181	59.9 M	34.2 M	54.2 M	44.6 M	29.5 M	72.5 M			
Mercury	<0.14 mg/kg	TM181	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M			
Nickel	<0.2 mg/kg	TM181	31.7 M	30.4 M	30.1 M	28.1 M	36 M	28.2 M			
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #	<1 #	<1 #	<1 #			
Vanadium	<0.2 mg/kg	TM181	17.4 #	18.4 #	15.4 #	14.3 #	15.5 #	15.6 #			
Zinc	<1.9 mg/kg	TM181	179 M	179 M	250 M	136 M	120 M	234 M			

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

Results Legend

#	ISO17025 accredited.
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*	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	Customer Sample Ref.	Phase30-25	Phase30-26	Phase30-27			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	18/09/2014	18/09/2014	18/09/2014			
			Sample Time	.	.	.			
			Date Received	19/09/2014	19/09/2014	19/09/2014			
			SDG Ref	140919-54	140919-54	140919-54			
			Lab Sample No.(s)	10023105	10023118	10023126			
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		5.3	5.8	6.1			
Soil Organic Matter (SOM)	<0.35 %	TM132			2.59 #				
pH	1 pH Units	TM133		8.09 M	8.1 M	7.99 M			
Arsenic	<0.6 mg/kg	TM181		13.4 M	<0.6 M	21.2 M			
Cadmium	<0.02 mg/kg	TM181		0.663 M	<0.02 M	0.827 M			
Chromium	<0.9 mg/kg	TM181		17.8 M	<0.9 M	17.3 M			
Copper	<1.4 mg/kg	TM181		58.6 M	<1.4 M	109 M			
Lead	<0.7 mg/kg	TM181		46.1 M	<0.7 M	93.4 M			
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M			
Nickel	<0.2 mg/kg	TM181		31.2 M	<0.2 M	28.1 M			
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #			
Vanadium	<0.2 mg/kg	TM181		16.2 #	<0.2 #	17 #			
Zinc	<1.9 mg/kg	TM181		315 M	<1.9 M	278 M			

CERTIFICATE OF ANALYSIS

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Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

PAH by GCMS

Results Legend

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Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-1	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022955	
			Phase30-2	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022981	
			Phase30-3	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022985	
			Phase30-4	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022991	
			Phase30-5	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022996	
			Phase30-6	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023009	
Naphthalene-d8 % recovery**	%	TM218	98.2	95.4	97.7	104	103	96.1			
Acenaphthene-d10 % recovery**	%	TM218	95.5	93.1	101	107	107	94.3			
Phenanthrene-d10 % recovery**	%	TM218	92.3	97.6	98.8	105	108	96.2			
Chrysene-d12 % recovery**	%	TM218	97.8	104	88	89.4	97.6	100			
Perylene-d12 % recovery**	%	TM218	96.7	117	94.3	98.9	108	113			
Naphthalene	<9 µg/kg	TM218	<9 M	22.3 M	14.4 M	34.5 M	27.6 M	18.2 M			
Acenaphthylene	<12 µg/kg	TM218	<12 M	<12 M	13.3 M	<12 M	<12 M	<12 M			
Acenaphthene	<8 µg/kg	TM218	<8 M	<8 M	<8 M	13.2 M	<8 M	<8 M			
Fluorene	<10 µg/kg	TM218	<10 M	<10 M	11 M	18 M	12.9 M	<10 M			
Phenanthrene	<15 µg/kg	TM218	20.7 M	91.6 M	95.2 M	219 M	110 M	80.5 M			
Anthracene	<16 µg/kg	TM218	<16 M	19 M	<16 M	50.5 M	20.1 M	<16 M			
Fluoranthene	<17 µg/kg	TM218	30.6 M	124 M	129 M	347 M	89.3 M	99.4 M			
Pyrene	<15 µg/kg	TM218	28 M	159 M	171 M	416 M	172 M	111 M			
Benz(a)anthracene	<14 µg/kg	TM218	<14 M	87.3 M	100 M	259 M	77.5 M	96.8 M			
Chrysene	<10 µg/kg	TM218	<10 M	<10 M	84.1 M	164 M	91.6 M	78.4 M			
Benzo(b)fluoranthene	<15 µg/kg	TM218	31 M	251 M	188 M	332 M	177 M	197 M			
Benzo(k)fluoranthene	<14 µg/kg	TM218	<14 M	67.6 M	65.7 M	144 M	73.5 M	59.1 M			
Benzo(a)pyrene	<15 µg/kg	TM218	28.7 M	127 M	116 M	264 M	107 M	119 M			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	19.7 M	74 M	74.1 M	146 M	77.3 M	78.3 M			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<23 M	33.6 M	26.1 M	48.4 M	29.6 M	33.2 M			
Benzo(g,h,i)perylene	<24 µg/kg	TM218	30.1 M	107 M	107 M	188 M	115 M	99.1 M			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	189	1160	1190	2640	1180	1070			

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

PAH by GCMS

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Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-7	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023015	
			Phase30-8	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023031	
			Phase30-9	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023035	
			Phase30-10	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023050	
			Phase30-11	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023059	
			Phase30-12	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023064	
Naphthalene-d8 % recovery**	%	TM218	101	101	98.2	104	99.7	95.8			
Acenaphthene-d10 % recovery**	%	TM218	104	104	97.2	106	102	91.2			
Phenanthrene-d10 % recovery**	%	TM218	105	103	101	104	101	89.1			
Chrysene-d12 % recovery**	%	TM218	93.3	95.3	106	96.7	93.2	101			
Perylene-d12 % recovery**	%	TM218	98.8	106	123	107	103	110			
Naphthalene	<9 µg/kg	TM218	43.2 M	32.9 M	15.6 M	20.8 M	20.1 M	25.5 M			
Acenaphthylene	<12 µg/kg	TM218	<12 M	33 M	<12 M	<12 M	<12 M	<12 M			
Acenaphthene	<8 µg/kg	TM218	32.4 M	16.1 M	<8 M	<8 M	10 M	<8 M			
Fluorene	<10 µg/kg	TM218	40.1 M	24.5 M	<10 M	<10 M	17.9 M	<10 M			
Phenanthrene	<15 µg/kg	TM218	292 M	582 M	74 M	71.5 M	100 M	114 M			
Anthracene	<16 µg/kg	TM218	58.3 M	166 M	27.8 M	<16 M	22.4 M	<16 M			
Fluoranthene	<17 µg/kg	TM218	387 M	3280 M	109 M	78.4 M	126 M	148 M			
Pyrene	<15 µg/kg	TM218	347 M	2740 M	182 M	95.2 M	145 M	192 M			
Benz(a)anthracene	<14 µg/kg	TM218	275 M	1780 M	108 M	49.8 M	80.3 M	119 M			
Chrysene	<10 µg/kg	TM218	155 M	1330 M	<10 M	42.1 M	61.2 M	171 M			
Benzo(b)fluoranthene	<15 µg/kg	TM218	271 M	1720 M	271 M	101 M	130 M	284 M			
Benzo(k)fluoranthene	<14 µg/kg	TM218	117 M	717 M	78.9 M	29.6 M	51.7 M	97.2 M			
Benzo(a)pyrene	<15 µg/kg	TM218	237 M	1640 M	162 M	74.4 M	91 M	176 M			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	133 M	685 M	113 M	48 M	59 M	136 M			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	56.9 M	206 M	48.8 M	<23 M	<23 M	53.8 M			
Benzo(g,h,i)perylene	<24 µg/kg	TM218	172 M	800 M	155 M	70.7 M	85.3 M	171 M			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2620	15700	1340	681	1000	1690			

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-13	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023077	
			Phase30-14	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023086	
			Phase30-15	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022959	
			Phase30-16	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022969	
			Phase30-17	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10022974	
			Phase30-18	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023000	
Naphthalene-d8 % recovery**	%	TM218	103		92.8		93		104		96.1		93.7	
Acenaphthene-d10 % recovery**	%	TM218	106		90.8		91.9		107		94.9		90.1	
Phenanthrene-d10 % recovery**	%	TM218	105		89.2		95.3		106		98		88.5	
Chrysene-d12 % recovery**	%	TM218	94		72.4		101		97.5		104		99.2	
Perylene-d12 % recovery**	%	TM218	103		79.9		120		107		124		114	
Naphthalene	<9 µg/kg	TM218	27.8	M	81.4	M	14.2	M	21.5	M	36.9	M	33.1	M
Acenaphthylene	<12 µg/kg	TM218	<12	M	18.8	M	<12	M	<12	M	<12	M	<12	M
Acenaphthene	<8 µg/kg	TM218	15	M	18	M	<8	M	<8	M	<8	M	<8	M
Fluorene	<10 µg/kg	TM218	15	M	33.2	M	<10	M	<10	M	15.5	M	<10	M
Phenanthrene	<15 µg/kg	TM218	145	M	319	M	61.5	M	90.1	M	111	M	92.6	M
Anthracene	<16 µg/kg	TM218	32.4	M	53.6	M	23	M	<16	M	24.1	M	24.7	M
Fluoranthene	<17 µg/kg	TM218	242	M	272	M	82.8	M	84.6	M	117	M	101	M
Pyrene	<15 µg/kg	TM218	293	M	480	M	159	M	152	M	184	M	157	M
Benz(a)anthracene	<14 µg/kg	TM218	230	M	228	M	91.4	M	77.4	M	135	M	75	M
Chrysene	<10 µg/kg	TM218	166	M	230	M	<10	M	65.2	M	123	M	82.3	M
Benzo(b)fluoranthene	<15 µg/kg	TM218	356	M	336	M	226	M	163	M	347	M	255	M
Benzo(k)fluoranthene	<14 µg/kg	TM218	164	M	218	M	65.6	M	53.5	M	89.4	M	99.5	M
Benzo(a)pyrene	<15 µg/kg	TM218	287	M	287	M	111	M	103	M	197	M	163	M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	169	M	186	M	71.2	M	71.2	M	129	M	126	M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	67.7	M	84.2	M	36.1	M	27.1	M	54.6	M	<23	M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	223	M	261	M	101	M	104	M	168	M	179	M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	2430		3100		1040		1010		1730		1390	

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Phase30-19	Phase30-20	Phase30-21	Phase30-22	Phase30-23	Phase30-24
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
			Sample Time	.	.	.	.	.	.
			Date Received	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
			SDG Ref	140919-54	140919-54	140919-54	140919-54	140919-54	140919-54
			Lab Sample No.(s)	10023004	10023039	10023046	10023070	10023092	10023100
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		103	96.5	102	97.5	103	101
Acenaphthene-d10 % recovery**	%	TM218		106	95.1	104	100	104	103
Phenanthrene-d10 % recovery**	%	TM218		106	98.3	105	102	104	101
Chrysene-d12 % recovery**	%	TM218		100	104	96.5	91.3	96.3	89.1
Perylene-d12 % recovery**	%	TM218		111	118	105	98.3	104	100
Naphthalene	<9 µg/kg	TM218		28.3 M	28.9 M	37 M	50.3 M	31.6 M	31.7 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	15.9 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		<8 M	9.33 M	28.4 M	256 M	20.7 M	<8 M
Fluorene	<10 µg/kg	TM218		13.1 M	17.4 M	26.7 M	176 M	21.1 M	20.1 M
Phenanthrene	<15 µg/kg	TM218		120 M	139 M	225 M	933 M	184 M	150 M
Anthracene	<16 µg/kg	TM218		19.7 M	30.2 M	42.1 M	133 M	33.1 M	40.7 M
Fluoranthene	<17 µg/kg	TM218		110 M	157 M	285 M	1100 M	204 M	150 M
Pyrene	<15 µg/kg	TM218		145 M	183 M	268 M	897 M	190 M	251 M
Benz(a)anthracene	<14 µg/kg	TM218		101 M	142 M	206 M	584 M	155 M	122 M
Chrysene	<10 µg/kg	TM218		76.6 M	129 M	181 M	543 M	151 M	111 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		150 M	304 M	260 M	589 M	281 M	201 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		69.3 M	86.3 M	137 M	260 M	95.2 M	81.8 M
Benzo(a)pyrene	<15 µg/kg	TM218		135 M	177 M	249 M	550 M	193 M	151 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		86.8 M	117 M	136 M	265 M	116 M	93.2 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		31.1 M	48 M	49.2 M	98.7 M	40.4 M	38.6 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		127 M	159 M	165 M	301 M	151 M	143 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		1210	1730	2300	6750	1870	1590

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-25	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023105	
			Phase30-26	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023118	
			Phase30-27	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023126	
Naphthalene-d8 % recovery**	%	TM218	99.3								
Acenaphthene-d10 % recovery**	%	TM218	95.4								
Phenanthrene-d10 % recovery**	%	TM218	92								
Chrysene-d12 % recovery**	%	TM218	108								
Perylene-d12 % recovery**	%	TM218	126								
Naphthalene	<9 µg/kg	TM218	25.2 M								
Acenaphthylene	<12 µg/kg	TM218	<12 M								
Acenaphthene	<8 µg/kg	TM218	<8 M								
Fluorene	<10 µg/kg	TM218	<10 M								
Phenanthrene	<15 µg/kg	TM218	101 M								
Anthracene	<16 µg/kg	TM218	44.7 M								
Fluoranthene	<17 µg/kg	TM218	156 M								
Pyrene	<15 µg/kg	TM218	256 M								
Benz(a)anthracene	<14 µg/kg	TM218	51 M								
Chrysene	<10 µg/kg	TM218	274 M								
Benzo(b)fluoranthene	<15 µg/kg	TM218	214 M								
Benzo(k)fluoranthene	<14 µg/kg	TM218	140 M								
Benzo(a)pyrene	<15 µg/kg	TM218	195 M								
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	141 M								
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	74.4 M								
Benzo(g,h,i)perylene	<24 µg/kg	TM218	205 M								
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	1880								

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Phase30-1	Phase30-2	Phase30-3	Phase30-4	Phase30-5	Phase30-6
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
			Sample Time	.	.	.	.	.	.
			Date Received	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
			SDG Ref	140919-54	140919-54	140919-54	140919-54	140919-54	140919-54
			Lab Sample No.(s)	10022955	10022981	10022985	10022991	10022996	10023009
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		88	77	91	72	85	85
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	<176 M	<176 M	<176 M	<176 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 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		<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	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	20800	11200	12400	10800	4780
Aliphatics >C16-C21	<100 µg/kg	TM173		3550	260000	167000	197000	184000	73700
Aliphatics >C21-C35	<100 µg/kg	TM173		21800	1380000	943000	1550000	1310000	443000
Aliphatics >C35-C44	<100 µg/kg	TM173		10700	364000	267000	393000	336000	133000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		36100	2020000	1390000	2160000	1840000	654000
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		<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	2260	1640	2840	2600	2630
Aromatics >EC16-EC21	<100 µg/kg	TM173		1170	70600	57000	87200	72800	35000
Aromatics >EC21-EC35	<100 µg/kg	TM173		23000	706000	543000	791000	783000	334000
Aromatics >EC35-EC44	<100 µg/kg	TM173		18400	207000	167000	254000	251000	113000
Aromatics >EC40-EC44	<100 µg/kg	TM173		7350	64900	53400	79800	80700	38000
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		42600	986000	769000	1140000	1110000	485000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		78600	3010000	2160000	3290000	2950000	1140000
Aromatics >EC16-EC35	<100 µg/kg	TM173		24200	777000	600000	878000	856000	369000

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-7	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023015	
			Phase30-8	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023031	
			Phase30-9	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023035	
			Phase30-10	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023050	
			Phase30-11	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023059	
			Phase30-12	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023064	
GRO Surrogate % recovery**	%	TM089	71	73	89	89	79	85			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176 M	<176 M	<176 M	<176 M	<176 M	<176 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 M	<20 M	<20 M	<20 M	<20 M	<20 M			
Benzene	<10 µg/kg	TM089	<40 M	<40 M	<40 M	<40 M	<40 M	<40 M			
Toluene	<2 µg/kg	TM089	<8 M	<8 M	<8 M	<8 M	<8 M	<8 M			
Ethylbenzene	<3 µg/kg	TM089	<12 M	<12 M	<12 M	<12 M	<12 M	<12 M			
m,p-Xylene	<6 µg/kg	TM089	<24 M	<24 M	<24 M	<24 M	<24 M	<24 M			
o-Xylene	<3 µg/kg	TM089	<12 M	<12 M	<12 M	<12 M	<12 M	<12 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	<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	<40			
Aliphatics >C10-C12	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40			
Aliphatics >C12-C16	<100 µg/kg	TM173	9980	8430	10600	6770	9220	5120			
Aliphatics >C16-C21	<100 µg/kg	TM173	205000	163000	159000	96600	129000	117000			
Aliphatics >C21-C35	<100 µg/kg	TM173	1610000	1360000	1030000	518000	814000	922000			
Aliphatics >C35-C44	<100 µg/kg	TM173	453000	317000	299000	152000	256000	329000			
Total Aliphatics >C12-C44	<100 µg/kg	TM173	2270000	1850000	1500000	774000	1210000	1370000			
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	<40	<40	<40	<40	<40	<40			
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40			
Aromatics >EC12-EC16	<100 µg/kg	TM173	2480	2290	2000	2010	2160	1470			
Aromatics >EC16-EC21	<100 µg/kg	TM173	70200	74800	72400	44400	45600	47600			
Aromatics >EC21-EC35	<100 µg/kg	TM173	661000	738000	677000	384000	483000	518000			
Aromatics >EC35-EC44	<100 µg/kg	TM173	213000	240000	218000	126000	181000	177000			
Aromatics >EC40-EC44	<100 µg/kg	TM173	68400	76700	71300	40100	57700	56300			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	947000	1050000	970000	557000	712000	744000			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	3220000	2910000	2470000	1330000	1920000	2120000			
Aromatics >EC16-EC35	<100 µg/kg	TM173	731000	813000	750000	429000	529000	565000			

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Phase30-13	Phase30-14	Phase30-15	Phase30-16	Phase30-17	Phase30-18
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014	18/09/2014
			Sample Time	.	.	.	.	.	.
			Date Received	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014	19/09/2014
			SDG Ref	140919-54	140919-54	140919-54	140919-54	140919-54	140919-54
			Lab Sample No.(s)	10023077	10023086	10022959	10022969	10022974	10023000
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		92	69	70	71	72	86
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	<176 M	<176 M	<176 M	<176 M	<176 M
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M	<20 M	<20 M	<20 M
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M	<40 M	<40 M	<40 M
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M	<8 M	<8 M	<8 M
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 M
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M	<24 M	<24 M	<24 M
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M	<12 M	<12 M	<12 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		<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	<40
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aliphatics >C12-C16	<100 µg/kg	TM173		9840	8340	13400	12900	10700	12800
Aliphatics >C16-C21	<100 µg/kg	TM173		203000	154000	227000	200000	138000	206000
Aliphatics >C21-C35	<100 µg/kg	TM173		2350000	1600000	1670000	1530000	830000	1450000
Aliphatics >C35-C44	<100 µg/kg	TM173		766000	306000	443000	381000	223000	375000
Total Aliphatics >C12-C44	<100 µg/kg	TM173		3330000	2070000	2350000	2130000	1200000	2040000
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		<40	<40	<40	<40	<40	<40
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40	<40	<40	<40
Aromatics >EC12-EC16	<100 µg/kg	TM173		3700	1820	3430	2410	3680	3100
Aromatics >EC16-EC21	<100 µg/kg	TM173		90700	56500	110000	79200	53900	86900
Aromatics >EC21-EC35	<100 µg/kg	TM173		820000	514000	1030000	739000	561000	871000
Aromatics >EC35-EC44	<100 µg/kg	TM173		270000	160000	319000	229000	163000	274000
Aromatics >EC40-EC44	<100 µg/kg	TM173		88600	50700	99900	70800	52200	88200
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		1180000	733000	1460000	1050000	782000	1240000
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		4510000	2800000	3810000	3170000	1980000	3280000
Aromatics >EC16-EC35	<100 µg/kg	TM173		911000	571000	1140000	818000	614000	958000

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			Phase30-19	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023004	
			Phase30-20	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023039	
			Phase30-21	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023046	
			Phase30-22	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023070	
			Phase30-23	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023092	
			Phase30-24	.	Soil/Solid	18/09/2014	.	19/09/2014	140919-54	10023100	
GRO Surrogate % recovery**	%	TM089	99	103	73	76	87	85			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089	<176 M	<176 M	<176 M	<176 M	<176 M	<176 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089	<20 M	<20 M	<20 M	<20 M	<20 M	<20 M			
Benzene	<10 µg/kg	TM089	<40 M	<40 M	<40 M	<40 M	<40 M	<40 M			
Toluene	<2 µg/kg	TM089	<8 M	<8 M	<8 M	<8 M	<8 M	<8 M			
Ethylbenzene	<3 µg/kg	TM089	<12 M	<12 M	<12 M	<12 M	<12 M	<12 M			
m,p-Xylene	<6 µg/kg	TM089	<24 M	<24 M	<24 M	<24 M	<24 M	<24 M			
o-Xylene	<3 µg/kg	TM089	<12 M	<12 M	<12 M	<12 M	<12 M	<12 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	<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	<40			
Aliphatics >C10-C12	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40			
Aliphatics >C12-C16	<100 µg/kg	TM173	4220	6670	3520	9580	2980	12900			
Aliphatics >C16-C21	<100 µg/kg	TM173	65600	102000	50800	124000	14900	191000			
Aliphatics >C21-C35	<100 µg/kg	TM173	455000	652000	328000	679000	96400	1670000			
Aliphatics >C35-C44	<100 µg/kg	TM173	153000	214000	102000	193000	31400	350000			
Total Aliphatics >C12-C44	<100 µg/kg	TM173	678000	975000	484000	1010000	146000	2220000			
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	<40	<40	<40	<40	<40	<40			
Aromatics >EC10-EC12	<10 µg/kg	TM089	<40	<40	<40	<40	<40	<40			
Aromatics >EC12-EC16	<100 µg/kg	TM173	1560	1320	1410	2200	1470	2320			
Aromatics >EC16-EC21	<100 µg/kg	TM173	31200	39800	19800	52600	6230	68800			
Aromatics >EC21-EC35	<100 µg/kg	TM173	350000	437000	231000	466000	76700	649000			
Aromatics >EC35-EC44	<100 µg/kg	TM173	139000	171000	84400	148000	32300	195000			
Aromatics >EC40-EC44	<100 µg/kg	TM173	51100	53500	27800	48300	12000	60500			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173	522000	649000	336000	669000	117000	915000			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	1200000	1620000	820000	1670000	262000	3140000			
Aromatics >EC16-EC35	<100 µg/kg	TM173	381000	477000	250000	519000	82900	717000			

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample Ref.	Phase30-25	Phase30-26	Phase30-27			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	18/09/2014	18/09/2014	18/09/2014			
			Sample Time	.	.	.			
			Date Received	19/09/2014	19/09/2014	19/09/2014			
			SDG Ref	140919-54	140919-54	140919-54			
			Lab Sample No.(s)	10023105	10023118	10023126			
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		70	78	57			
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		<176 M	<176 M	<176 M			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<20 M	<20 M	<20 M			
Benzene	<10 µg/kg	TM089		<40 M	<40 M	<40 M			
Toluene	<2 µg/kg	TM089		<8 M	<8 M	<8 M			
Ethylbenzene	<3 µg/kg	TM089		<12 M	<12 M	<12 M			
m,p-Xylene	<6 µg/kg	TM089		<24 M	<24 M	<24 M			
o-Xylene	<3 µg/kg	TM089		<12 M	<12 M	<12 M			
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	<9			
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24			
Aliphatics >C5-C6	<10 µg/kg	TM089		<40	<40	<40			
Aliphatics >C6-C8	<10 µg/kg	TM089		<40	<40	<40			
Aliphatics >C8-C10	<10 µg/kg	TM089		<40	<40	<40			
Aliphatics >C10-C12	<10 µg/kg	TM089		<40	<40	<40			
Aliphatics >C12-C16	<100 µg/kg	TM173		10600	13500	9780			
Aliphatics >C16-C21	<100 µg/kg	TM173		196000	243000	187000			
Aliphatics >C21-C35	<100 µg/kg	TM173		1270000	1740000	1430000			
Aliphatics >C35-C44	<100 µg/kg	TM173		324000	475000	364000			
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1800000	2470000	1990000			
Aromatics >EC5-EC7	<10 µg/kg	TM089		<40	<40	<40			
Aromatics >EC7-EC8	<10 µg/kg	TM089		<40	<40	<40			
Aromatics >EC8-EC10	<10 µg/kg	TM089		<40	<40	<40			
Aromatics >EC10-EC12	<10 µg/kg	TM089		<40	<40	<40			
Aromatics >EC12-EC16	<100 µg/kg	TM173		2590	3660	2100			
Aromatics >EC16-EC21	<100 µg/kg	TM173		77500	109000	70500			
Aromatics >EC21-EC35	<100 µg/kg	TM173		687000	1020000	719000			
Aromatics >EC35-EC44	<100 µg/kg	TM173		203000	432000	230000			
Aromatics >EC40-EC44	<100 µg/kg	TM173		65500	165000	73300			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		970000	1560000	1020000			
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		2770000	4030000	3010000			
Aromatics >EC16-EC35	<100 µg/kg	TM173		765000	1130000	789000			

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

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 Receieved SDG Original Sample Method Number	Phase30-1 SOLID 18/09/2014 00:00:00 20/09/2014 08:45:44 140919-54 10022955 TM048	29/9/14	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 Receieved SDG Original Sample Method Number	Phase30-2 SOLID 18/09/2014 00:00:00 20/09/2014 10:17:34 140919-54 10022981 TM048	29/9/14	Kevin Gill	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 Receieved SDG Original Sample Method Number	Phase30-3 SOLID 18/09/2014 00:00:00 20/09/2014 10:10:36 140919-54 10022985 TM048	29/9/14	Kevin Gill	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 Receieved SDG Original Sample Method Number	Phase30-4 SOLID 18/09/2014 00:00:00 20/09/2014 10:37:26 140919-54 10022991 TM048	26/9/14	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 Receieved SDG Original Sample Method Number	Phase30-5 SOLID 18/09/2014 00:00:00 20/09/2014 10:23:10 140919-54 10022996 TM048	29/9/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 140919-54 **Location:** Coed Darcy **Order Number:** CD0841
Job: H_ATKINS_LDC-228 **Customer:** Atkins Global Ltd **Report Number:** 289118
Client Reference: Phase 30 **Attention:** Jack Lowrie **Superseded Report:** 287490

		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 Receieved SDG Original Sample Method Number	Phase30-6 SOLID 18/09/2014 00:00:00 20/09/2014 10:08:21 140919-54 10023009 TM048	29/9/14	Kevin Gill	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 Receieved SDG Original Sample Method Number	Phase30-7 SOLID 18/09/2014 00:00:00 20/09/2014 08:40:40 140919-54 10023015 TM048	26/9/14	Simon Postlewhite	Soil containing loose fibres and material typical of AC	Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-8 SOLID 18/09/2014 00:00:00 20/09/2014 10:40:09 140919-54 10023031 TM048	26/9/14	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	Phase30-9 SOLID 18/09/2014 00:00:00 20/09/2014 08:25:30 140919-54 10023035 TM048	29/9/14	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 Receieved SDG Original Sample Method Number	Phase30-10 SOLID 18/09/2014 00:00:00 20/09/2014 08:36:35 140919-54 10023050 TM048	29/9/14	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	Phase30-11 SOLID 18/09/2014 00:00:00 20/09/2014 09:40:36 140919-54 10023059 TM048	26/9/14	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 140919-54 **Location:** Coed Darcy **Order Number:** CD0841
Job: H_ATKINS_LDC-228 **Customer:** Atkins Global Ltd **Report Number:** 289118
Client Reference: Phase 30 **Attention:** Jack Lowrie **Superseded Report:** 287490

		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 Receieved SDG Original Sample Method Number	Phase30-12 SOLID 18/09/2014 00:00:00 20/09/2014 09:45:57 140919-54 10023064 TM048	29/9/14	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-13 SOLID 18/09/2014 00:00:00 20/09/2014 10:03:35 140919-54 10023077 TM048	29/9/14	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-14 SOLID 18/09/2014 00:00:00 20/09/2014 10:12:53 140919-54 10023086 TM048	26/9/14	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 Receieved SDG Original Sample Method Number	Phase30-15 SOLID 18/09/2014 00:00:00 20/09/2014 08:22:31 140919-54 10022959 TM048	29/9/14	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	Phase30-16 SOLID 18/09/2014 00:00:00 20/09/2014 10:19:33 140919-54 10022969 TM048	26/9/14	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 Receieved SDG Original Sample Method Number	Phase30-17 SOLID 18/09/2014 00:00:00 20/09/2014 10:26:10 140919-54 10022974 TM048	29/9/14	Simon Postlewhite	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 140919-54 **Location:** Coed Darcy **Order Number:** CD0841
Job: H_ATKINS_LDC-228 **Customer:** Atkins Global Ltd **Report Number:** 289118
Client Reference: Phase 30 **Attention:** Jack Lowrie **Superseded Report:** 287490

		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 Receieved SDG Original Sample Method Number	Phase30-18 SOLID 18/09/2014 00:00:00 20/09/2014 10:06:24 140919-54 10023000 TM048	29/9/14	Simon Postlewhite	Loose fibres in soil	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-19 SOLID 18/09/2014 00:00:00 20/09/2014 07:55:28 140919-54 10023004 TM048	29/9/14	Kevin Gill	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 Receieved SDG Original Sample Method Number	Phase30-20 SOLID 18/09/2014 00:00:00 20/09/2014 09:43:39 140919-54 10023039 TM048	29/9/14	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	Phase30-21 SOLID 18/09/2014 00:00:00 20/09/2014 10:01:25 140919-54 10023046 TM048	29/09/14	Simon Postlewhite	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 Receieved SDG Original Sample Method Number	Phase30-22 SOLID 18/09/2014 00:00:00 20/09/2014 09:48:15 140919-54 10023070 TM048	29/9/14	Kevin Gill	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-23 SOLID 18/09/2014 00:00:00 20/09/2014 10:15:28 140919-54 10023092 TM048	26/9/14	Kevin Bowron	Loose fibres in soil	Not Detected (#)	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG: 140919-54 **Location:** Coed Darcy **Order Number:** CD0841
Job: H_ATKINS_LDC-228 **Customer:** Atkins Global Ltd **Report Number:** 289118
Client Reference: Phase 30 **Attention:** Jack Lowrie **Superseded Report:** 287490

		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 Receieved SDG Original Sample Method Number	Phase30-24 SOLID 18/09/2014 00:00:00 20/09/2014 08:18:55 140919-54 10023100 TM048	29/9/14	Kevin Gill	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 Receieved SDG Original Sample Method Number	Phase30-25 SOLID 18/09/2014 00:00:00 20/09/2014 08:33:24 140919-54 10023105 TM048	29/9/14	Simon Postlewhite	Loose fibres in soil	Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-26 SOLID 18/09/2014 00:00:00 20/09/2014 08:29:12 140919-54 10023118 TM048	26/9/14	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 Receieved SDG Original Sample Method Number	Phase30-27 SOLID 18/09/2014 00:00:00 20/09/2014 08:49:24 140919-54 10023126 TM048	26/9/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

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 Receieved SDG Original Sample Method Number	Phase30-2 SOLID 18/09/2014 00:00:00 06/10/2014 18:37:54 140919-54 10022981 TM 304	None (#)	N/C	0.0014 (#)	<0.001 (#)	0.0023 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-3 SOLID 18/09/2014 00:00:00 06/10/2014 18:27:30 140919-54 10022985 TM 304	Amosite (Trace; loose fibres in soil.) (#)	None	0.0010 (#)	<0.001 (#)	0.0016 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-4 SOLID 18/09/2014 00:00:00 07/10/2014 09:58:19 140919-54 10022991 TM 304	None (#)	N/C	0.0021 (#)	0.0010 (#)	0.0031 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-7 SOLID 18/09/2014 00:00:00 06/10/2014 18:40:59 140919-54 10023015 TM 304	None (#)	N/C	0.0644 (#)	0.0022 (#)	0.0666 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-8 SOLID 18/09/2014 00:00:00 07/10/2014 10:02:01 140919-54 10023031 TM 304	None (#)	Amphibole fibres found during PCM analysis.	0.0034 (#)	<0.001 (#)	0.0041 (#)

CERTIFICATE OF ANALYSIS

SDG: 140919-54 **Location:** Coed Darcy **Order Number:** CD0841
Job: H_ATKINS_LDC-228 **Customer:** Atkins Global Ltd **Report Number:** 289118
Client Reference: Phase 30 **Attention:** Jack Lowrie **Superseded Report:** 287490

		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 Receieved SDG Original Sample Method Number	Phase30-10 SOLID 18/09/2014 00:00:00 06/10/2014 18:43:11 140919-54 10023050 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-14 SOLID 18/09/2014 00:00:00 06/10/2014 18:34:48 140919-54 10023086 TM 304	None (#)	N/C	0.0013 (#)	<0.001 (#)	0.0016 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-15 SOLID 18/09/2014 00:00:00 06/10/2014 18:50:48 140919-54 10022959 TM 304	None (#)	N/C	0.0027 (#)	<0.001 (#)	0.0033 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-16 SOLID 18/09/2014 00:00:00 06/10/2014 18:41:18 140919-54 10022969 TM 304	None (#)	N/C	0.0037 (#)	<0.001 (#)	0.0043 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-19 SOLID 18/09/2014 00:00:00 06/10/2014 18:46:48 140919-54 10023004 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-20 SOLID 18/09/2014 00:00:00 06/10/2014 18:34:16 140919-54 10023039 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG: 140919-54 **Location:** Coed Darcy **Order Number:** CD0841
Job: H_ATKINS_LDC-228 **Customer:** Atkins Global Ltd **Report Number:** 289118
Client Reference: Phase 30 **Attention:** Jack Lowrie **Superseded Report:** 287490

		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 Receieved SDG Original Sample Method Number	Phase30-21 SOLID 18/09/2014 00:00:00 06/10/2014 18:23:37 140919-54 10023046 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-23 SOLID 18/09/2014 00:00:00 06/10/2014 18:31:09 140919-54 10023092 TM 304	None (#)	N/C	0.0020 (#)	<0.001 (#)	0.0023 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-24 SOLID 18/09/2014 00:00:00 06/10/2014 18:45:09 140919-54 10023100 TM 304	None (#)	N/C	0.0012 (#)	<0.001 (#)	0.0015 (#)
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	Phase30-25 SOLID 18/09/2014 00:00:00 06/10/2014 18:48:54 140919-54 10023105 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

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.

CERTIFICATE OF ANALYSIS

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

Test Completion Dates

Lab Sample No(s)	10022955	10022981	10022985	10022991	10022996	10023009	10023015	10023031	10023035	10023050
Customer Sample Ref.	Phase30-1	Phase30-2	Phase30-3	Phase30-4	Phase30-5	Phase30-6	Phase30-7	Phase30-8	Phase30-9	Phase30-10
AGS Ref.										
Depth										
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014
Asbestos Quantification - Full		10-Oct-2014	10-Oct-2014	13-Oct-2014			13-Oct-2014	10-Oct-2014		13-Oct-2014
EPH CWG (Aliphatic) GC (S)	29-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014	28-Sep-2014	28-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014
EPH CWG (Aromatic) GC (S)	29-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014	28-Sep-2014	28-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014
GRO by GC-FID (S)	25-Sep-2014	25-Sep-2014	28-Sep-2014	26-Sep-2014	28-Sep-2014	28-Sep-2014	25-Sep-2014	25-Sep-2014	28-Sep-2014	28-Sep-2014
Metals in solid samples by OES	25-Sep-2014	25-Sep-2014	26-Sep-2014	26-Sep-2014	25-Sep-2014	26-Sep-2014	25-Sep-2014	26-Sep-2014	29-Sep-2014	25-Sep-2014
PAH by GCMS	29-Sep-2014	26-Sep-2014	28-Sep-2014	27-Sep-2014	27-Sep-2014	26-Sep-2014	27-Sep-2014	27-Sep-2014	26-Sep-2014	27-Sep-2014
pH	26-Sep-2014	27-Sep-2014	27-Sep-2014	27-Sep-2014	27-Sep-2014	27-Sep-2014	26-Sep-2014	27-Sep-2014	26-Sep-2014	26-Sep-2014
Sample description	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	22-Sep-2014	20-Sep-2014
Total Organic Carbon	29-Sep-2014									29-Sep-2014
TPH CWG GC (S)	29-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014	28-Sep-2014	28-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014

Lab Sample No(s)	10023059	10023064	10023077	10023086	10022959	10022969	10022974	10023000	10023004	10023039
Customer Sample Ref.	Phase30-11	Phase30-12	Phase30-13	Phase30-14	Phase30-15	Phase30-16	Phase30-17	Phase30-18	Phase30-19	Phase30-20
AGS Ref.										
Depth										
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014
Asbestos Quantification - Full				13-Oct-2014	10-Oct-2014	10-Oct-2014			13-Oct-2014	10-Oct-2014
EPH CWG (Aliphatic) GC (S)	28-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014
EPH CWG (Aromatic) GC (S)	28-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014
GRO by GC-FID (S)	28-Sep-2014	28-Sep-2014	25-Sep-2014	28-Sep-2014	25-Sep-2014	25-Sep-2014	28-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014
Metals in solid samples by OES	29-Sep-2014	25-Sep-2014	25-Sep-2014	26-Sep-2014	25-Sep-2014	25-Sep-2014	25-Sep-2014	25-Sep-2014	29-Sep-2014	26-Sep-2014
PAH by GCMS	27-Sep-2014	29-Sep-2014	27-Sep-2014	27-Sep-2014	26-Sep-2014	27-Sep-2014	26-Sep-2014	29-Sep-2014	27-Sep-2014	26-Sep-2014
pH	27-Sep-2014	27-Sep-2014	27-Sep-2014	27-Sep-2014	26-Sep-2014	27-Sep-2014	27-Sep-2014	27-Sep-2014	26-Sep-2014	27-Sep-2014
Sample description	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	22-Sep-2014	20-Sep-2014
Total Organic Carbon		29-Sep-2014						29-Sep-2014		
TPH CWG GC (S)	28-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014

Lab Sample No(s)	10023046	10023070	10023092	10023100	10023105	10023118	10023126
Customer Sample Ref.	Phase30-21	Phase30-22	Phase30-23	Phase30-24	Phase30-25	Phase30-26	Phase30-27
AGS Ref.							
Depth							
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014	29-Sep-2014
Asbestos Quantification - Full	10-Oct-2014		10-Oct-2014	10-Oct-2014	10-Oct-2014		
EPH CWG (Aliphatic) GC (S)	29-Sep-2014	29-Sep-2014	28-Sep-2014	28-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014
EPH CWG (Aromatic) GC (S)	29-Sep-2014	29-Sep-2014	28-Sep-2014	28-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014
GRO by GC-FID (S)	26-Sep-2014	25-Sep-2014	28-Sep-2014	25-Sep-2014	28-Sep-2014	25-Sep-2014	28-Sep-2014
Metals in solid samples by OES	25-Sep-2014	26-Sep-2014	26-Sep-2014	25-Sep-2014	26-Sep-2014	29-Sep-2014	26-Sep-2014
PAH by GCMS	27-Sep-2014	27-Sep-2014	27-Sep-2014	27-Sep-2014	29-Sep-2014	27-Sep-2014	28-Sep-2014
pH	27-Sep-2014	27-Sep-2014	27-Sep-2014	26-Sep-2014	27-Sep-2014	26-Sep-2014	26-Sep-2014
Sample description	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014	20-Sep-2014
Total Organic Carbon						29-Sep-2014	
TPH CWG GC (S)	29-Sep-2014	29-Sep-2014	28-Sep-2014	28-Sep-2014	28-Sep-2014	29-Sep-2014	29-Sep-2014

SDG:	140919-54	**Location:**	Coed Darcy	**Order Number:**	CD0841
Job:	H_ATKINS_LDC-228	**Customer:**	Atkins Global Ltd	**Report Number:**	289118
Client Reference:	Phase 30	**Attention:**	Jack Lowrie	**Superseded Report:**	287490

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 Dimethyphenol, 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 presevation 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.

ALcontrol Laboratories

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Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

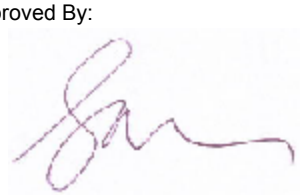
Date:	08 May 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	140501-56
Your Reference:	SP 107
Location:	Coed Darcy
Report No:	269317

We received 6 samples on Thursday May 01, 2014 and 6 of these samples were scheduled for analysis which was completed on Thursday May 08, 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

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CERTIFICATE OF ANALYSIS

SDG:	140501-56	**Location:**	Coed Darcy	**Order Number:**	CD0657
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9222541	SP 107 -5		0.00 - 0.00	29/04/2014
9222550	SP 107 -6		0.00 - 0.00	29/04/2014
9222556	SP 107 -7		0.00 - 0.00	29/04/2014
9222560	SP 107 -8		0.00 - 0.00	29/04/2014
9222564	SP 107 -9		0.00 - 0.00	29/04/2014
9222568	SP 107 -10		0.00 - 0.00	29/04/2014

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

CERTIFICATE OF ANALYSIS

SDG:	140501-56	**Location:**	Coed Darcy	**Order Number:**	CD0657
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X Test

N No Determination Possible

Lab Sample No(s)			9222541	9222550	9222556	9222560	9222564	9222568
Customer Sample Reference			SP 107 -5	SP 107 -6	SP 107 -7	SP 107 -8	SP 107 -9	SP 107 -10
AGS Reference								
Depth (m)			0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 6		X			X			X			X			X			X			X			X			X	
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X			X			X		
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 6		X			X			X			X			X			X			X			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X			X			X		
pH	All	NDPs: 0 Tests: 6		X			X			X			X			X			X			X			X			X	
Sample description	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X			X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X			X			X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 6	X			X			X			X			X			X			X			X			X		

CERTIFICATE OF ANALYSIS

SDG:	140501-56	**Location:**	Coed Darcy	**Order Number:**	CD0657
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**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
9222541	SP 107 -5	0.00 - 0.00	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Vegetation	Stones
9222550	SP 107 -6	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9222556	SP 107 -7	0.00 - 0.00	Dark Brown	Silty Clay Loam	0.063 - 0.1 mm	Vegetation	Stones
9222560	SP 107 -8	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Vegetation	Stones
9222564	SP 107 -9	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones
9222568	SP 107 -10	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Vegetation	Stones

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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	140501-56	**Location:**	Coed Darcy	**Order Number:**	CD0657
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	SP 107 -5	SP 107 -6	SP 107 -7	SP 107 -8	SP 107 -9	SP 107 -10
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	29/04/2014	29/04/2014	29/04/2014	29/04/2014	29/04/2014	29/04/2014
			Sample Time	.	.	.	.	.	.
			Date Received	01/05/2014	01/05/2014	01/05/2014	01/05/2014	01/05/2014	01/05/2014
			SDG Ref	140501-56	140501-56	140501-56	140501-56	140501-56	140501-56
			Lab Sample No.(s)	9222541	9222550	9222556	9222560	9222564	9222568
			AGS Reference						
Moisture Content Ratio	%	PM024		5	9.3	5.8	4	8.5	8.9
Soil Organic Matter (SOM)	<0.35 %	TM132		1.27 #	0.864 #	0.96 #	1.97 #	1.12 #	0.967 #
pH	1 pH Units	TM133		8.37 M	8.46 M	8.53 M	8.47 M	11.1 M	7.42 M
Arsenic	<0.6 mg/kg	TM181		9.3 M	7.3 M	16.5 M	10.2 M	9.33 M	10.5 M
Cadmium	<0.02 mg/kg	TM181		0.521 M	0.293 M	0.638 M	0.906 M	0.135 M	0.207 M
Chromium	<0.9 mg/kg	TM181		22.9 M	12.1 M	14.6 M	16.1 M	12.6 M	13.3 M
Copper	<1.4 mg/kg	TM181		16.5 M	13.4 M	11.3 M	19.9 M	13.3 M	20.2 M
Lead	<0.7 mg/kg	TM181		18.6 M	21.9 M	37.6 M	65.8 M	31 M	16.5 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		38.9 M	22.8 M	30.7 M	25.1 M	19.4 M	25.4 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.56 #	<1 #	<1 #	1.92 #
Vanadium	<0.2 mg/kg	TM181		15.7 #	13.3 #	21 #	15.5 #	15.6 #	16.9 #
Zinc	<1.9 mg/kg	TM181		156 M	79.4 M	121 M	198 M	108 M	83.1 M

CERTIFICATE OF ANALYSIS

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Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	SP 107 -5	SP 107 -6	SP 107 -7	SP 107 -8	SP 107 -9	SP 107 -10
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	29/04/2014	29/04/2014	29/04/2014	29/04/2014	29/04/2014	29/04/2014
			Sample Time	.	.	.	.	.	.
			Date Received	01/05/2014	01/05/2014	01/05/2014	01/05/2014	01/05/2014	01/05/2014
			SDG Ref	140501-56	140501-56	140501-56	140501-56	140501-56	140501-56
			Lab Sample No.(s)	9222541	9222550	9222556	9222560	9222564	9222568
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		95.3	100	94.6	98.7	97.8	94.8
Acenaphthene-d10 % recovery**	%	TM218		94.1	104	93.7	104	101	93.2
Phenanthrene-d10 % recovery**	%	TM218		93.2	102	93.6	102	99.5	92.2
Chrysene-d12 % recovery**	%	TM218		94.3	98.2	96.9	102	96	91.4
Perylene-d12 % recovery**	%	TM218		93.5	100	101	108	104	95.7
Naphthalene	<9 µg/kg	TM218		13.1 M	<9 M	11.2 M	22.3 M	19.5 M	<9 M
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	13.5 M	<12 M	<12 M
Acenaphthene	<8 µg/kg	TM218		9.81 M	<8 M	<8 M	18.1 M	16.8 M	<8 M
Fluorene	<10 µg/kg	TM218		17.9 M	<10 M	<10 M	17.1 M	15.3 M	<10 M
Phenanthrene	<15 µg/kg	TM218		60.1 M	49.5 M	66.4 M	143 M	138 M	53.8 M
Anthracene	<16 µg/kg	TM218		17 M	<16 M	<16 M	27 M	26.4 M	<16 M
Fluoranthene	<17 µg/kg	TM218		25.4 M	26.7 M	62.1 M	275 M	271 M	26.8 M
Pyrene	<15 µg/kg	TM218		35.2 M	22.4 M	70.7 M	292 M	266 M	27.4 M
Benz(a)anthracene	<14 µg/kg	TM218		<14 M	33.8 M	30.6 M	244 M	224 M	<14 M
Chrysene	<10 µg/kg	TM218		30.9 M	32.9 M	65.4 M	280 M	301 M	12.6 M
Benzo(b)fluoranthene	<15 µg/kg	TM218		28.3 M	49.6 M	88.6 M	613 M	534 M	33.7 M
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	<14 M	18.8 M	196 M	193 M	<14 M
Benzo(a)pyrene	<15 µg/kg	TM218		18.8 M	25.8 M	65.1 M	389 M	353 M	22.2 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	<18 M	43.7 M	275 M	258 M	<18 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	<23 M	<23 M	94.6 M	83 M	<23 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	27.7 M	69.1 M	407 M	378 M	<24 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		257	268	592	3310	3080	176

CERTIFICATE OF ANALYSIS

SDG:	140501-56	**Location:**	Coed Darcy	**Order Number:**	CD0657
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	SP 107 -5	SP 107 -6	SP 107 -7	SP 107 -8	SP 107 -9	SP 107 -10
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	29/04/2014	29/04/2014	29/04/2014	29/04/2014	29/04/2014	29/04/2014
			Sample Time	.	.	.	.	.	.
			Date Received	01/05/2014	01/05/2014	01/05/2014	01/05/2014	01/05/2014	01/05/2014
			SDG Ref	140501-56	140501-56	140501-56	140501-56	140501-56	140501-56
			Lab Sample No.(s)	9222541	9222550	9222556	9222560	9222564	9222568
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		110	75	96	82	108	130
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		424 M	351 M	514 M	58.4 M	59 M	235 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 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	<10	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		17.9	16.5	15.9	10.4	<10	<10
Aliphatics >C8-C10	<10 µg/kg	TM089		70.6	28.6	53.1	12.5	13.1	19.8
Aliphatics >C10-C12	<10 µg/kg	TM089		170	169	243	13.5	12	112
Aliphatics >C12-C16	<100 µg/kg	TM173		8790	1270	2490	5900	7270	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		16400	10400	11000	42900	34900	1440
Aliphatics >C21-C35	<100 µg/kg	TM173		26100	25500	45500	148000	117000	4830
Aliphatics >C35-C44	<100 µg/kg	TM173		10200	4310	16600	99200	45100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		61400	41400	75600	296000	204000	6280
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		48.4	18.7	35	<10	<10	13.2
Aromatics >EC10-EC12	<10 µg/kg	TM089		113	113	162	<10	<10	74.7
Aromatics >EC12-EC16	<100 µg/kg	TM173		4300	1480	1450	4650	2860	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		13900	4960	9140	48600	22700	1680
Aromatics >EC21-EC35	<100 µg/kg	TM173		48300	34500	56700	247000	122000	11000
Aromatics >EC35-EC44	<100 µg/kg	TM173		28000	17400	34800	205000	83200	5410
Aromatics >EC40-EC44	<100 µg/kg	TM173		12300	6490	14100	99600	32900	2010
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		94500	58300	102000	506000	231000	18100
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		156000	100000	178000	802000	435000	24600

CERTIFICATE OF ANALYSIS

SDG:	140501-56	**Location:**	Coed Darcy	**Order Number:**	CD0657
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**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 Receieved SDG Original Sample Method Number	SP 107 -5 0.00 - 0.00 SOLID 29/04/2014 00:00:00 140501-56 9222541 TM048	7/5/14	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 Receieved SDG Original Sample Method Number	SP 107 -6 0.00 - 0.00 SOLID 29/04/2014 00:00:00 140501-56 9222550 TM048	7/5/14	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 Receieved SDG Original Sample Method Number	SP 107 -7 0.00 - 0.00 SOLID 29/04/2014 00:00:00 140501-56 9222556 TM048	7/5/14	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 Receieved SDG Original Sample Method Number	SP 107 -8 0.00 - 0.00 SOLID 29/04/2014 00:00:00 140501-56 9222560 TM048	7/5/14	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 Receieved SDG Original Sample Method Number	SP 107 -9 0.00 - 0.00 SOLID 29/04/2014 00:00:00 140501-56 9222564 TM048	7/5/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

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Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**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 Receieved SDG Original Sample Method Number	SP 107 -10 0.00 - 0.00 SOLID 29/04/2014 00:00:00 140501-56 9222568 TM048	7/5/14	Paul Fenney	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	140501-56	**Location:**	Coed Darcy	**Order Number:**	CD0657
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**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		
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.

CERTIFICATE OF ANALYSIS

SDG:	140501-56	**Location:**	Coed Darcy	**Order Number:**	CD0657
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	9222541	9222550	9222556	9222560	9222564	9222568
Customer Sample Ref.	SP 107 -5	SP 107 -6	SP 107 -7	SP 107 -8	SP 107 -9	SP 107 -10
AGS Ref.						
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	07-May-2014	07-May-2014	07-May-2014	07-May-2014	07-May-2014	07-May-2014
EPH CWG (Aliphatic) GC (S)	08-May-2014	07-May-2014	08-May-2014	06-May-2014	08-May-2014	07-May-2014
EPH CWG (Aromatic) GC (S)	08-May-2014	07-May-2014	08-May-2014	06-May-2014	08-May-2014	07-May-2014
GRO by GC-FID (S)	07-May-2014	08-May-2014	08-May-2014	08-May-2014	07-May-2014	07-May-2014
Metals in solid samples by OES	07-May-2014	07-May-2014	07-May-2014	07-May-2014	07-May-2014	07-May-2014
PAH by GCMS	07-May-2014	07-May-2014	07-May-2014	07-May-2014	07-May-2014	07-May-2014
pH	08-May-2014	08-May-2014	08-May-2014	08-May-2014	08-May-2014	08-May-2014
Sample description	02-May-2014	02-May-2014	02-May-2014	02-May-2014	02-May-2014	02-May-2014
Total Organic Carbon	08-May-2014	08-May-2014	08-May-2014	08-May-2014	08-May-2014	08-May-2014
TPH CWG GC (S)	08-May-2014	08-May-2014	08-May-2014	08-May-2014	08-May-2014	07-May-2014

SDG:	140501-56	**Location:**	Coed Darcy	**Order Number:**	CD0657
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	269317
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 Dimethyphenol, 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 presevation 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.

ALcontrol Laboratories

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Atkins Global Ltd
Project Jonah site office
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Llandarcy
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Attention: Jack Lowrie

CERTIFICATE OF ANALYSIS

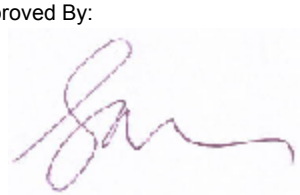
Date:	29 April 2014
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	140417-34
Your Reference:	SP 107
Location:	Coed Darcy
Report No:	268218

We received 4 samples on Thursday April 17, 2014 and 4 of these samples were scheduled for analysis which was completed on Tuesday April 29, 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

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CERTIFICATE OF ANALYSIS

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
9159026	Sp 107 - 1		0.00 - 0.00	15/04/2014
9159031	Sp 107 - 2		0.00 - 0.00	15/04/2014
9159035	Sp 107 - 3		0.00 - 0.00	15/04/2014
9159040	Sp 107 - 4		0.00 - 0.00	15/04/2014

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

CERTIFICATE OF ANALYSIS

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			9159026	Sp 107 - 1		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			9159031	Sp 107 - 2		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			9159035	Sp 107 - 3		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			9159040	Sp 107 - 4		0.00 - 0.00	250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 4					X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 4					X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 4					X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 4					X
Metals in solid samples by OES	All	NDPs: 0 Tests: 4					X
PAH by GCMS	All	NDPs: 0 Tests: 4					X
pH	All	NDPs: 0 Tests: 4					X
Sample description	All	NDPs: 0 Tests: 4					X
Total Organic Carbon	All	NDPs: 0 Tests: 4					X
TPH CWG GC (S)	All	NDPs: 0 Tests: 4					X

CERTIFICATE OF ANALYSIS

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**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
9159026	Sp 107 - 1	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	None
9159031	Sp 107 - 2	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	None
9159035	Sp 107 - 3	0.00 - 0.00	Dark Brown	Sandy Clay Loam	0.1 - 2 mm	Stones	Vegetation
9159040	Sp 107 - 4	0.00 - 0.00	Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	Vegetation

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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	Sp 107 - 1	Sp 107 - 2	Sp 107 - 3	Sp 107 - 4		
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	15/04/2014	15/04/2014	15/04/2014	15/04/2014		
			Sample Time	.	.	.	.		
			Date Received	17/04/2014	17/04/2014	17/04/2014	17/04/2014		
			SDG Ref	140417-34	140417-34	140417-34	140417-34		
			Lab Sample No.(s)	9159026	9159031	9159035	9159040		
			AGS Reference						
Moisture Content Ratio	%	PM024		15	13	13	11		
Soil Organic Matter (SOM)	<0.35 %	TM132		3.84 #	3.02 #	2.91 #	3.5 #		
pH	1 pH Units	TM133		7.5 M	5.2 M	7.88 M	7.23 M		
Arsenic	<0.6 mg/kg	TM181		22.3 M	27.9 M	25.7 M	27.6 M		
Cadmium	<0.02 mg/kg	TM181		0.326 M	0.567 M	0.599 M	0.583 M		
Chromium	<0.9 mg/kg	TM181		11.9 M	15.9 M	14.2 M	14.8 M		
Copper	<1.4 mg/kg	TM181		90.4 M	60.5 M	50.7 M	68.7 M		
Lead	<0.7 mg/kg	TM181		24.9 M	38.9 M	31.7 M	74 M		
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	0.637 M		
Nickel	<0.2 mg/kg	TM181		14.1 M	25.3 M	25.6 M	27.3 M		
Selenium	<1 mg/kg	TM181		2.12 #	1.49 #	1.53 #	1.82 #		
Vanadium	<0.2 mg/kg	TM181		18.1 #	20.1 #	17.9 #	21.2 #		
Zinc	<1.9 mg/kg	TM181		69.2 M	123 M	108 M	153 M		

CERTIFICATE OF ANALYSIS

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	Sp 107 - 1	Sp 107 - 2	Sp 107 - 3	Sp 107 - 4		
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	15/04/2014	15/04/2014	15/04/2014	15/04/2014		
			Sample Time	.	.	.	.		
			Date Received	17/04/2014	17/04/2014	17/04/2014	17/04/2014		
			SDG Ref	140417-34	140417-34	140417-34	140417-34		
			Lab Sample No.(s)	9159026	9159031	9159035	9159040		
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		104	108	109	97.5		
Acenaphthene-d10 % recovery**	%	TM218		103	107	107	96.7		
Phenanthrene-d10 % recovery**	%	TM218		102	106	106	96		
Chrysene-d12 % recovery**	%	TM218		97.6	104	101	94.6		
Perylene-d12 % recovery**	%	TM218		103	111	106	101		
Naphthalene	<9 µg/kg	TM218		11.7 M	33.6 M	29 M	38.5 M		
Acenaphthylene	<12 µg/kg	TM218		<12 M	<12 M	<12 M	<12 M		
Acenaphthene	<8 µg/kg	TM218		<8 M	10.7 M	<8 M	<8 M		
Fluorene	<10 µg/kg	TM218		<10 M	17.1 M	15.9 M	15.4 M		
Phenanthrene	<15 µg/kg	TM218		60.8 M	148 M	136 M	153 M		
Anthracene	<16 µg/kg	TM218		<16 M	27.6 M	<16 M	27.4 M		
Fluoranthene	<17 µg/kg	TM218		29.8 M	128 M	89 M	107 M		
Pyrene	<15 µg/kg	TM218		32.3 M	130 M	71.7 M	145 M		
Benz(a)anthracene	<14 µg/kg	TM218		35 M	110 M	30 M	66.8 M		
Chrysene	<10 µg/kg	TM218		32.9 M	127 M	44 M	85.4 M		
Benzo(b)fluoranthene	<15 µg/kg	TM218		47.7 M	192 M	77.1 M	129 M		
Benzo(k)fluoranthene	<14 µg/kg	TM218		<14 M	60.8 M	27.8 M	42.7 M		
Benzo(a)pyrene	<15 µg/kg	TM218		<15 M	135 M	48.6 M	108 M		
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		<18 M	78.3 M	33.9 M	71.8 M		
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		<23 M	32 M	<23 M	28.6 M		
Benzo(g,h,i)perylene	<24 µg/kg	TM218		<24 M	105 M	50.1 M	106 M		
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		250	1330	653	1120		

CERTIFICATE OF ANALYSIS

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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	Customer Sample R	Sp 107 - 1	Sp 107 - 2	Sp 107 - 3	Sp 107 - 4		
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00		
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid		
			Date Sampled	15/04/2014	15/04/2014	15/04/2014	15/04/2014		
			Sample Time	.	.	.	.		
			Date Received	17/04/2014	17/04/2014	17/04/2014	17/04/2014		
			SDG Ref	140417-34	140417-34	140417-34	140417-34		
			Lab Sample No.(s)	9159026	9159031	9159035	9159040		
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		79	95	82	104		
GRO TOT (Moisture Corrected)	<44 µg/kg	TM089		931 M	2670 M	1040 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		<10	<10	<10	<10		
Aliphatics >C6-C8	<10 µg/kg	TM089		30.4	311	63.3	15.8		
Aliphatics >C8-C10	<10 µg/kg	TM089		140	716	209	27.1		
Aliphatics >C10-C12	<10 µg/kg	TM089		395	690	370	39.6		
Aliphatics >C12-C16	<100 µg/kg	TM173		1630	14900	15900	18900		
Aliphatics >C16-C21	<100 µg/kg	TM173		2840	22100	15900	40000		
Aliphatics >C21-C35	<100 µg/kg	TM173		4640	79400	43900	86300		
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	38100	11300	38200		
Total Aliphatics >C12-C44	<100 µg/kg	TM173		9110	154000	87100	183000		
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		93.6	484	141	19.2		
Aromatics >EC10-EC12	<10 µg/kg	TM089		263	460	246	26		
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	3380	2150	5280		
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	12700	8890	24300		
Aromatics >EC21-EC35	<100 µg/kg	TM173		11200	61400	48000	87400		
Aromatics >EC35-EC44	<100 µg/kg	TM173		5810	35300	22800	40300		
Aromatics >EC40-EC44	<100 µg/kg	TM173		1970	14400	8840	15800		
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		11900	113000	81800	157000		
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173		21900	270000	170000	341000		

CERTIFICATE OF ANALYSIS

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**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 Receieved SDG Original Sample Method Number	Sp 107 - 1 0.00 - 0.00 SOLID 15/04/2014 00:00:00 140417-34 9159026 TM048	25/4/14	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 Receieved SDG Original Sample Method Number	Sp 107 - 2 0.00 - 0.00 SOLID 15/04/2014 00:00:00 140417-34 9159031 TM048	25/4/14	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 Receieved SDG Original Sample Method Number	Sp 107 - 3 0.00 - 0.00 SOLID 15/04/2014 00:00:00 140417-34 9159035 TM048	25/4/14	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 Receieved SDG Original Sample Method Number	Sp 107 - 4 0.00 - 0.00 SOLID 15/04/2014 00:00:00 140417-34 9159040 TM048	25/4/14	Simon Postlewhite	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**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		
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.

CERTIFICATE OF ANALYSIS

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	9159026	9159031	9159035	9159040
Customer Sample Ref.	Sp 107 - 1	Sp 107 - 2	Sp 107 - 3	Sp 107 - 4
AGS Ref.				
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	SOLID	SOLID	SOLID	SOLID
Asbestos ID in Solid Samples	25-Apr-2014	25-Apr-2014	25-Apr-2014	25-Apr-2014
EPH CWG (Aliphatic) GC (S)	24-Apr-2014	23-Apr-2014	23-Apr-2014	23-Apr-2014
EPH CWG (Aromatic) GC (S)	24-Apr-2014	23-Apr-2014	23-Apr-2014	23-Apr-2014
GRO by GC-FID (S)	20-Apr-2014	20-Apr-2014	20-Apr-2014	20-Apr-2014
Metals in solid samples by OES	29-Apr-2014	29-Apr-2014	29-Apr-2014	29-Apr-2014
PAH by GCMS	24-Apr-2014	24-Apr-2014	25-Apr-2014	25-Apr-2014
pH	23-Apr-2014	23-Apr-2014	23-Apr-2014	23-Apr-2014
Sample description	17-Apr-2014	17-Apr-2014	17-Apr-2014	17-Apr-2014
Total Organic Carbon	25-Apr-2014	25-Apr-2014	25-Apr-2014	25-Apr-2014
TPH CWG GC (S)	24-Apr-2014	23-Apr-2014	23-Apr-2014	23-Apr-2014

SDG:	140417-34	**Location:**	Coed Darcy	**Order Number:**	CD0652
Job:	H_ATKINS_LDC-219	**Customer:**	Atkins Global Ltd	**Report Number:**	268218
Client Reference:	SP 107	**Attention:**	Jack Lowrie	**Superseded Report:**	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 Dimethyphenol, 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 presevation 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.

ALcontrol Laboratories

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

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

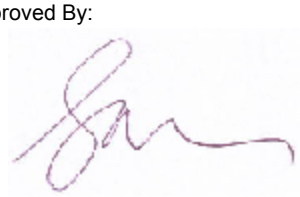
Date:	30 January 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130118-70
Your Reference:	Stockpiles
Location:	Coed Darcy Urban Village
Report No:	210415

We received 3 samples on Friday January 18, 2013 and 3 of these samples were scheduled for analysis which was completed on Wednesday January 30, 2013. 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

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
6793850	SP66 54			17/01/2013
6793851	SP66 55			17/01/2013
6793852	SP66 56			17/01/2013

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

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X Test

N No Determination Possible

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			6793850	SP66 54			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6793851	SP66 55			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6793852	SP66 56			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 3					
				X			
							X
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 3	X			X	
							X
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 3	X			X	
							X
GRO by GC-FID (S)	All	NDPs: 0 Tests: 3		X			X
							X
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 3	X			X	
							X
	Cadmium	NDPs: 0 Tests: 3	X			X	
							X
	Chromium	NDPs: 0 Tests: 3	X			X	
							X
	Copper	NDPs: 0 Tests: 3	X			X	
							X
	Lead	NDPs: 0 Tests: 3	X			X	
							X
	Mercury	NDPs: 0 Tests: 3	X			X	
							X
	Nickel	NDPs: 0 Tests: 3	X			X	
							X
	Selenium	NDPs: 0 Tests: 3	X			X	
							X
	Zinc	NDPs: 0 Tests: 3	X			X	
							X
pH	All	NDPs: 0 Tests: 3		X			
							X
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 3	X			X	
							X

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			6793850	SP66 54			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6793851	SP66 55			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6793852	SP66 56			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Total Organic Carbon	All	NDPs: 0 Tests: 3	X	X	X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 3	X	X	X		
VOC MS (S)	All	NDPs: 0 Tests: 3				X	X	X

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**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
6793850	SP66 54		Light Brown	Loamy Sand	0.1 - 2 mm	Stones	None
6793851	SP66 55		Light Brown	N/A	> 10 mm	None	None
6793852	SP66 56		Light Brown	N/A	> 10 mm	None	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 ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66 54	SP66 55	SP66 56			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	17/01/2013	17/01/2013	17/01/2013			
			Sample Time	.	.	.			
			Date Received	18/01/2013	18/01/2013	18/01/2013			
			SDG Ref	130118-70	130118-70	130118-70			
			Lab Sample No.(s)	6793850	6793851	6793852			
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		3.38 #	4.81 #	2.86 #			
pH	1 pH Units	TM133		6.45 M	6.78 #	6.94 #			
Arsenic	<0.6 mg/kg	TM181		6.49 M	7.24 #	5.12 #			
Cadmium	<0.02 mg/kg	TM181		0.899 M	0.697 #	0.775 #			
Chromium	<0.9 mg/kg	TM181		14.4 M	16.5 #	16.1 #			
Copper	<1.4 mg/kg	TM181		6.12 M	7.61 #	6.22 #			
Lead	<0.7 mg/kg	TM181		17 M	16.8 #	12.4 #			
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 #	<0.14 #			
Nickel	<0.2 mg/kg	TM181		36.3 M	40.8 #	39.6 #			
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<1 #			
Zinc	<1.9 mg/kg	TM181		69.2 M	69.3 #	70.2 #			

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66 54	SP66 55	SP66 56			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	17/01/2013	17/01/2013	17/01/2013			
			Sample Time	.	.	.			
			Date Received	18/01/2013	18/01/2013	18/01/2013			
			SDG Ref	130118-70	130118-70	130118-70			
			Lab Sample No.(s)	6793850	6793851	6793852			
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100			
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100			
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100			
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100			
Isophorone	<100 µg/kg	TM157		<100	<100	<100			
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100			
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100			
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100			
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100			
Carbazole	<100 µg/kg	TM157		<100	<100	<100			
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100			
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100			
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100			
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100			
Azobenzene	<100 µg/kg	TM157		<100	<100	<100			
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100			
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100			
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100			
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100			
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100			
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100			
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100			
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100			
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100			
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100			
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100			
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66 54	SP66 55	SP66 56			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	17/01/2013	17/01/2013	17/01/2013			
			Sample Time	.	.	.			
			Date Received	18/01/2013	18/01/2013	18/01/2013			
			SDG Ref	130118-70	130118-70	130118-70			
			Lab Sample No.(s)	6793850	6793851	6793852			
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100			
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100			
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100			
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100			
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100			
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100			
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100			
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100			
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100			
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	<100			
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100			
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100			
Anthracene	<100 µg/kg	TM157		<100	<100	<100			
Benzo(a)anthracene	<100 µg/kg	TM157		<100	<100	<100			
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	<100	<100			
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	<100	<100			
Benzo(a)pyrene	<100 µg/kg	TM157		<100	<100	<100			
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	<100	<100			
Chrysene	<100 µg/kg	TM157		<100	<100	<100			
Fluoranthene	<100 µg/kg	TM157		<100	<100	<100			
Fluorene	<100 µg/kg	TM157		<100	<100	<100			
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	<100			
Phenanthrene	<100 µg/kg	TM157		193	150	135			
Pyrene	<100 µg/kg	TM157		<100	<100	<100			
Naphthalene	<100 µg/kg	TM157		<100	<100	<100			
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100			

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66 54	SP66 55	SP66 56			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	17/01/2013	17/01/2013	17/01/2013			
			Sample Time	.	.	.			
			Date Received	18/01/2013	18/01/2013	18/01/2013			
			SDG Ref	130118-70	130118-70	130118-70			
			Lab Sample No.(s)	6793850	6793851	6793852			
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		28	65	41			
GRO >C5-C12	<44 µg/kg	TM089		438	498	601			
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #			
Benzene	<10 µg/kg	TM089		<10 M	<10 #	<10 #			
Toluene	<2 µg/kg	TM089		7.45 M	11.5 #	9.64 #			
Ethylbenzene	<3 µg/kg	TM089		5.32 M	8.35 #	6.43 #			
m,p-Xylene	<6 µg/kg	TM089		20.2 M	35.5 #	30 #			
o-Xylene	<3 µg/kg	TM089		4.26 M	6.26 #	6.43 #			
sum of detected mpo xylene by GC	<9 µg/kg	TM089		24.5	41.8	36.4			
sum of detected BTEX by GC	<24 µg/kg	TM089		37.3	61.7	52.5			
Aliphatics >C5-C6	<10 µg/kg	TM089		81.9	94	109			
Aliphatics >C6-C8	<10 µg/kg	TM089		186	201	277			
Aliphatics >C8-C10	<10 µg/kg	TM089		38.3	47	53.6			
Aliphatics >C10-C12	<10 µg/kg	TM089		39.4	36.5	41.8			
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	<100			
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	<100			
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	<100			
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100			
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	<100			
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10			
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	11.5	<10			
Aromatics >EC8-EC10	<10 µg/kg	TM089		55.3	80.4	79.3			
Aromatics >EC10-EC12	<10 µg/kg	TM089		26.6	24	27.8			
Aromatics >EC12-EC16	<100 µg/kg	TM173		1580	1750	1720			
Aromatics >EC16-EC21	<100 µg/kg	TM173		2650	2620	2390			
Aromatics >EC21-EC35	<100 µg/kg	TM173		7890	6590	8870			
Aromatics >EC35-EC44	<100 µg/kg	TM173		1250	1270	1430			
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100			
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		13400	12200	14400			
Total Aliphatics >C5-35	<100 µg/kg	TM173		347	379	482			
Total Aromatics >C5-35	<100 µg/kg	TM173		12200	11100	13100			
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		12600	11500	13600			

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	SP66 54	SP66 55	SP66 56			
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.			
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
*	Subcontracted test.	Date Sampled	17/01/2013	17/01/2013	17/01/2013			
**	% 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	Sample Time	.	.	.			
		Date Received	18/01/2013	18/01/2013	18/01/2013			
		SDG Ref	130118-70	130118-70	130118-70			
(F)	Trigger breach confirmed	Lab Sample No.(s)	6793850	6793851	6793852			
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	13800	12700	15000			

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66 54	SP66 55	SP66 56			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	17/01/2013	17/01/2013	17/01/2013			
			Sample Time	.	.	.			
			Date Received	18/01/2013	18/01/2013	18/01/2013			
			SDG Ref	130118-70	130118-70	130118-70			
			Lab Sample No.(s)	6793850	6793851	6793852			
			AGS Reference						
Dibromofluoromethane**	%	TM116		105	106	106			
Toluene-d8**	%	TM116		97.1	96.8	97.7			
4-Bromofluorobenzene**	%	TM116		109	109	103			
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 #	<80 #			
Chloromethane	<7 µg/kg	TM116		<140	<140	<140			
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<200			
Bromomethane	<13 µg/kg	TM116		<260 M	<260 #	<260 #			
Chloroethane	<14 µg/kg	TM116		<280 M	<280 #	<280 #			
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 #	<120 #			
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<200 #			
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 #	<140 #			
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #			
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 #	<220 #			
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 #	<220 #			
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 #	<160 #			
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 #	<100 #			
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 #	<240 #			
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 #	<280 #			
Chloroform	<8 µg/kg	TM116		<160 M	<160 #	<160 #			
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 #	<140 #			
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 #	<220 #			
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 #	<280 #			
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 #	<100 #			
Benzene	<9 µg/kg	TM116		<180 M	<180 #	<180 #			
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 #	<180 #			
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 #	<240 #			
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 #	<180 #			
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 #	<140 #			
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 #	<280 #			
Toluene	<5 µg/kg	TM116		<100 M	<100 #	<100 #			
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<280			
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 #	<200 #			

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66 54	SP66 55	SP66 56			
			Depth (m)	.	.	.			
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
			Date Sampled	17/01/2013	17/01/2013	17/01/2013			
			Sample Time	.	.	.			
			Date Received	18/01/2013	18/01/2013	18/01/2013			
			SDG Ref	130118-70	130118-70	130118-70			
			Lab Sample No.(s)	6793850	6793851	6793852			
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<140 #			
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 #	<100 #			
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 #	<260 #			
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 #	<240 #			
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 #	<100 #			
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 #	<200 #			
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 #	<80 #			
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	<280 #			
o-Xylene	<10 µg/kg	TM116		<200 M	<200 #	<200 #			
Styrene	<10 µg/kg	TM116		<200 M	<200 #	<200 #			
Bromoform	<10 µg/kg	TM116		<200 M	<200 #	<200 #			
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 #	<100 #			
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<200 #			
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 #	<340 #			
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 #	<200 #			
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 #	<220 #			
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 #	<180 #			
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<160 #			
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 #	<240 #			
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<240 #			
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<180 #			
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 #	<200 #			
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 #	<220 #			
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 #	<120 #			
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 #	<100 #			
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 #	<200 #			
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 #	<240 #			
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 #	<280 #			
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<300			
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<120 #			
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<240			
Naphthalene	<13 µg/kg	TM116		<260 M	<260 #	<260 #			

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend		Customer Sample R	SP66 54	SP66 55	SP66 56			
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	.	.	.			
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid			
*	Subcontracted test.	Date Sampled	17/01/2013	17/01/2013	17/01/2013			
**	% 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	Sample Time	.	.	.			
		Date Received	18/01/2013	18/01/2013	18/01/2013			
		SDG Ref	130118-70	130118-70	130118-70			
(F)	Trigger breach confirmed	Lab Sample No.(s)	6793850	6793851	6793852			
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M	<120 #	<120 #			

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Identification - Soil

		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 Receieved SDG Original Sample Method Number	SP66 54 SOLID 17/01/2013 00:00:00 130118-70 6793850 TM048	29/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66 55 SOLID 17/01/2013 00:00:00 130118-70 6793851 TM048	29/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66 56 SOLID 17/01/2013 00:00:00 130118-70 6793852 TM048	29/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**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)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

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

CERTIFICATE OF ANALYSIS

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	6793850	6793851	6793852
Customer Sample Ref.	SP66 54	SP66 55	SP66 56
AGS Ref.			
Depth			
Type	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	29-Jan-2013	29-Jan-2013	29-Jan-2013
EPH CWG (Aliphatic) GC (S)	24-Jan-2013	24-Jan-2013	24-Jan-2013
EPH CWG (Aromatic) GC (S)	24-Jan-2013	24-Jan-2013	24-Jan-2013
GRO by GC-FID (S)	23-Jan-2013	23-Jan-2013	23-Jan-2013
Metals by iCap-OES (Soil)	24-Jan-2013	24-Jan-2013	24-Jan-2013
pH	24-Jan-2013	24-Jan-2013	24-Jan-2013
Sample description	23-Jan-2013	23-Jan-2013	23-Jan-2013
Semi Volatile Organic Compounds	24-Jan-2013	24-Jan-2013	24-Jan-2013
Total Organic Carbon	30-Jan-2013	30-Jan-2013	30-Jan-2013
TPH CWG GC (S)	24-Jan-2013	24-Jan-2013	24-Jan-2013
VOC MS (S)	24-Jan-2013	24-Jan-2013	24-Jan-2013

SDG:	130118-70	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210415
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 2 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 Dimethyphenol, 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**
§	**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.

ALcontrol Laboratories

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

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

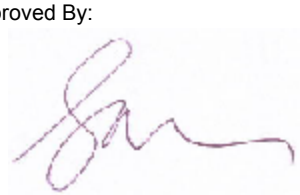
Date:	21 January 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	130111-39
Your Reference:	Stockpiles
Location:	Coed Darcy Urban Village
Report No:	209254

We received 5 samples on Friday January 11, 2013 and 5 of these samples were scheduled for analysis which was completed on Monday January 21, 2013. 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

Alcontrol Laboratories is a trading division of ALcontrol UK Limited
Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
6756862	S66-42			09/01/2013
6756863	S66-43			09/01/2013
6756864	S66-44			09/01/2013
6756865	S66-45			09/01/2013
6756866	S66-46			09/01/2013

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

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			6756862	S66-42			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6756863	S66-43			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6756864	S66-44			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6756865	S66-45			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6756866	S66-46			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 5					
				X			
				X			
				X			
				X			
				X			
				X			
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
GRO by GC-FID (S)	All	NDPs: 0 Tests: 5					
				X			
			X				
				X			
			X				
				X			
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
	Cadmium	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
	Chromium	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
	Copper	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
	Lead	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
	Mercury	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
	Nickel	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
	Selenium	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
	Zinc	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			
pH	All	NDPs: 0 Tests: 5					
				X			
			X				
				X			
			X				
				X			
Sample description	All	NDPs: 0 Tests: 5	X				
				X			
			X				
				X			
			X				
				X			

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

SOLID

Results Legend

X Test

N No Determination Possible

			Lab Sample No(s)	6756862	6756863	6756864	6756865	6756866
			Customer Sample Reference	S66-42	S66-43	S66-44	S66-45	S66-46
			AGS Reference					
			Depth (m)					
			Container	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 5		X			X			X			X			X			X		
Total Organic Carbon	All	NDPs: 0 Tests: 5		X			X			X			X			X			X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 5		X			X			X			X			X			X		
VOC MS (S)	All	NDPs: 0 Tests: 5				X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**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
6756862	S66-42		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	N/A
6756863	S66-43		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	N/A
6756864	S66-44		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	N/A
6756865	S66-45		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	N/A
6756866	S66-46		Dark Brown	Loamy Sand	0.1 - 2 mm	Stones	N/A

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

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	S66-42	S66-43	S66-44	S66-45	S66-46
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	09/01/2013	09/01/2013	09/01/2013	09/01/2013	09/01/2013
			Sample Time	.	.	.	.	.
			Date Received	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
			SDG Ref	130111-39	130111-39	130111-39	130111-39	130111-39
			Lab Sample No.(s)	6756862	6756863	6756864	6756865	6756866
			AGS Reference					
Soil Organic Matter (SOM)	<0.35 %	TM132		0.469 #	3.41 #	3.98 #	3.47 #	1.84 #
pH	1 pH Units	TM133		7.35 M	5.29 M	6.92 M	6.77 M	7.44 M
Arsenic	<0.6 mg/kg	TM181		3.39 M	10.7 M	5.71 M	8.6 M	5.67 M
Cadmium	<0.02 mg/kg	TM181		0.499 M	0.96 M	0.636 M	0.835 M	0.58 M
Chromium	<0.9 mg/kg	TM181		16.3 M	12.4 M	16.4 M	17.8 M	15.4 M
Copper	<1.4 mg/kg	TM181		7.15 M	70.7 M	10.8 M	6.45 M	9.42 M
Lead	<0.7 mg/kg	TM181		11.7 M	35.7 M	16.2 M	13.3 M	14.4 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		38.3 M	32.7 M	42.8 M	49 M	37.9 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	1.18 #	<1 #	1.01 #
Zinc	<1.9 mg/kg	TM181		70 M	86.9 M	77.5 M	82.4 M	74.2 M

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	S66-42	S66-43	S66-44	S66-45	S66-46
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	09/01/2013	09/01/2013	09/01/2013	09/01/2013	09/01/2013
			Sample Time	.	.	.	.	.
			Date Received	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
			SDG Ref	130111-39	130111-39	130111-39	130111-39	130111-39
			Lab Sample No.(s)	6756862	6756863	6756864	6756865	6756866
			AGS Reference					
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Semi Volatile Organic Compounds

Results Legend	
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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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	S66-42	S66-43	S66-44	S66-45	S66-46
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	09/01/2013	09/01/2013	09/01/2013	09/01/2013	09/01/2013
			Sample Time	.	.	.	.	.
			Date Received	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
			SDG Ref	130111-39	130111-39	130111-39	130111-39	130111-39
			Lab Sample No.(s)	6756862	6756863	6756864	6756865	6756866
			AGS Reference					
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Benzo(a)pyrene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Chrysene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Fluoranthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Phenanthrene	<100 µg/kg	TM157		<100	157	<100	125	<100
Pyrene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Naphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	S66-42	S66-43	S66-44	S66-45	S66-46
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	09/01/2013	09/01/2013	09/01/2013	09/01/2013	09/01/2013
			Sample Time	.	.	.	.	.
			Date Received	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
			SDG Ref	130111-39	130111-39	130111-39	130111-39	130111-39
			Lab Sample No.(s)	6756862	6756863	6756864	6756865	6756866
			AGS Reference					
GRO Surrogate % recovery**	%	TM089		74	86	32	23	44
GRO >C5-C12	<44 µg/kg	TM089		445	<44	150	88.8	66.2
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		12.7 M	3.23 M	7.3 M	4.28 M	3.15 M
Ethylbenzene	<3 µg/kg	TM089		4.22 M	<3 M	<3 M	<3 M	<3 M
m,p-Xylene	<6 µg/kg	TM089		33.8 M	7.53 M	15.6 M	9.63 M	8.41 M
o-Xylene	<3 µg/kg	TM089		6.34 M	<3 M	3.13 M	<3 M	<3 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		40.1	<9	18.7	9.63	<9
sum of detected BTEX by GC	<24 µg/kg	TM089		57	<24	26	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		46.5	<10	24	11.8	<10
Aliphatics >C6-C8	<10 µg/kg	TM089		162	<10	80.3	48.2	30.5
Aliphatics >C8-C10	<10 µg/kg	TM089		63.4	<10	<10	<10	<10
Aliphatics >C10-C12	<10 µg/kg	TM089		44.4	<10	<10	<10	<10
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	<100	<100	<100	<100
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	<100	<100	<100	<100
Aliphatics >C21-C35	<100 µg/kg	TM173		<100	<100	<100	<100	<100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100
Total Aliphatics >C12-C44	<100 µg/kg	TM173		<100	<100	<100	<100	<100
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10	<10	<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		12.7	<10	<10	<10	<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		86.6	14	24	16.1	13.7
Aromatics >EC10-EC12	<10 µg/kg	TM089		29.6	<10	<10	<10	<10
Aromatics >EC12-EC16	<100 µg/kg	TM173		<100	2600	<100	1230	605
Aromatics >EC16-EC21	<100 µg/kg	TM173		<100	2670	<100	<100	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		<100	3240	<100	<100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		<100	<100	<100	<100	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		<100	8500	<100	1230	605
Total Aliphatics >C5-35	<100 µg/kg	TM173		315	<100	115	<100	<100
Total Aromatics >C5-35	<100 µg/kg	TM173		130	8520	<100	1250	625
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		445	8520	115	1250	625

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample R	S66-42	S66-43	S66-44	S66-45	S66-46
#	ISO17025 accredited.						
M	*m*CERTS accredited.						
aq	Aqueous / settled sample.	Depth (m)	.	.	.	.	.
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
tot.unfilt	Total / unfiltered sample.	Date Sampled	09/01/2013	09/01/2013	09/01/2013	09/01/2013	09/01/2013
*	Subcontracted test.	Sample Time	.	.	.	.	.
**	% 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	Date Received	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
		SDG Ref	130111-39	130111-39	130111-39	130111-39	130111-39
(F)	Trigger breach confirmed	Lab Sample No.(s)	6756862	6756863	6756864	6756865	6756866
1-4&+§@	Sample deviation (see appendix)	AGS Reference					

Component	LOD/Units	Method					
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	445	8520	115	1250	625

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	S66-42	S66-43	S66-44	S66-45	S66-46
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	09/01/2013	09/01/2013	09/01/2013	09/01/2013	09/01/2013
			Sample Time	.	.	.	.	.
			Date Received	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
			SDG Ref	130111-39	130111-39	130111-39	130111-39	130111-39
			Lab Sample No.(s)	6756862	6756863	6756864	6756865	6756866
			AGS Reference					
Dibromofluoromethane**	%	TM116		116	101	111	109	109
Toluene-d8**	%	TM116		99.4	96.7	99.1	97.5	99.4
4-Bromofluorobenzene**	%	TM116		110	121	106	112	109
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<4 M	<80 M	<80 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<7	<140	<140	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<10	<200	<200	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<13 M	<260 M	<260 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<6 M	<120 M	<120 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<10 #	<200 #	<200 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<7 M	<140 M	<140 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<10 #	<200 #	<200 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<8 M	<160 M	<160 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<12 M	<240 M	<240 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<8 M	<160 M	<160 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<7 M	<140 M	<140 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<9 M	<180 M	<180 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<9 M	<180 M	<180 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<12 M	<240 M	<240 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<9 M	<180 M	<180 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<7 M	<140 M	<140 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M
Toluene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<14	<280	<280	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	S66-42	S66-43	S66-44	S66-45	S66-46
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	09/01/2013	09/01/2013	09/01/2013	09/01/2013	09/01/2013
			Sample Time	.	.	.	.	.
			Date Received	11/01/2013	11/01/2013	11/01/2013	11/01/2013	11/01/2013
			SDG Ref	130111-39	130111-39	130111-39	130111-39	130111-39
			Lab Sample No.(s)	6756862	6756863	6756864	6756865	6756866
			AGS Reference					
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<7 #	<140 #	<140 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<13 M	<260 M	<260 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<12 M	<240 M	<240 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 M	<4 M	<80 M	<80 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<14 #	<280 #	<280 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<10 #	<200 #	<200 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<17 M	<340 M	<340 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<9 M	<180 M	<180 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<8 #	<160 #	<160 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<12 M	<240 M	<240 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<12 #	<240 #	<240 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<9 #	<180 #	<180 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<11 M	<220 M	<220 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<6 M	<120 M	<120 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<5 M	<100 M	<100 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<10 M	<200 M	<200 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<12 M	<240 M	<240 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<14 M	<280 M	<280 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<15	<300	<300	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<6 #	<120 #	<120 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<12	<240	<240	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<13 M	<260 M	<260 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			S66-42	.	Soil/Solid	09/01/2013	.	11/01/2013	130111-39	6756862	
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M								
			S66-43	.	Soil/Solid	09/01/2013	.	11/01/2013	130111-39	6756863	
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<6 M								
			S66-44	.	Soil/Solid	09/01/2013	.	11/01/2013	130111-39	6756864	
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M								
			S66-45	.	Soil/Solid	09/01/2013	.	11/01/2013	130111-39	6756865	
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M								
			S66-46	.	Soil/Solid	09/01/2013	.	11/01/2013	130111-39	6756866	
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M								

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Asbestos Identification - Soil

		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 Receieved SDG Original Sample Method Number	S66-42 SOLID 09/01/2013 00:00:00 130111-39 6756862 TM048	18/01/13	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 Receieved SDG Original Sample Method Number	S66-43 SOLID 09/01/2013 00:00:00 130111-39 6756863 TM048	18/01/13	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 Receieved SDG Original Sample Method Number	S66-44 SOLID 09/01/2013 00:00:00 130111-39 6756864 TM048	18/01/13	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 Receieved SDG Original Sample Method Number	S66-45 SOLID 09/01/2013 00:00:00 130111-39 6756865 TM048	18/01/13	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 Receieved SDG Original Sample Method Number	S66-46 SOLID 09/01/2013 00:00:00 130111-39 6756866 TM048	18/01/13	Chris Swindells	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**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)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

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

CERTIFICATE OF ANALYSIS

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	6756862	6756863	6756864	6756865	6756866
Customer Sample Ref.	S66-42	S66-43	S66-44	S66-45	S66-46
AGS Ref.					
Depth					
Type	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	18-Jan-2013	18-Jan-2013	18-Jan-2013	18-Jan-2013	18-Jan-2013
EPH CWG (Aliphatic) GC (S)	17-Jan-2013	17-Jan-2013	17-Jan-2013	17-Jan-2013	17-Jan-2013
EPH CWG (Aromatic) GC (S)	17-Jan-2013	17-Jan-2013	17-Jan-2013	17-Jan-2013	17-Jan-2013
GRO by GC-FID (S)	15-Jan-2013	15-Jan-2013	16-Jan-2013	16-Jan-2013	16-Jan-2013
Metals by iCap-OES (Soil)	16-Jan-2013	16-Jan-2013	17-Jan-2013	17-Jan-2013	17-Jan-2013
pH	15-Jan-2013	15-Jan-2013	15-Jan-2013	15-Jan-2013	15-Jan-2013
Sample description	14-Jan-2013	14-Jan-2013	14-Jan-2013	14-Jan-2013	14-Jan-2013
Semi Volatile Organic Compounds	16-Jan-2013	16-Jan-2013	16-Jan-2013	16-Jan-2013	16-Jan-2013
Total Organic Carbon	21-Jan-2013	21-Jan-2013	21-Jan-2013	21-Jan-2013	21-Jan-2013
TPH CWG GC (S)	17-Jan-2013	17-Jan-2013	17-Jan-2013	17-Jan-2013	17-Jan-2013
VOC MS (S)	16-Jan-2013	15-Jan-2013	16-Jan-2013	16-Jan-2013	16-Jan-2013

SDG:	130111-39	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	209254
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 2 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 Dimethyphenol, 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**
§	**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.

ALcontrol Laboratories

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SA10 6HJ

Attention: Selina Bamforth

CERTIFICATE OF ANALYSIS

Date:	31 January 2013
Customer:	H_ATKINS_LDC
Sample Delivery Group (SDG):	121220-29
Your Reference:	Stockpiles
Location:	Coed Darcy Urban Village
Report No:	210533

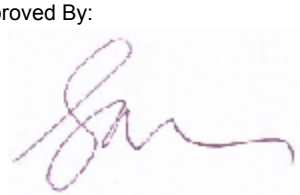
This report has been revised and directly supersedes 210530 in its entirety.

We received 11 samples on Thursday December 20, 2012 and 11 of these samples were scheduled for analysis which was completed on Thursday January 31, 2013. 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

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Registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No.

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
6695797	CSI-18			19/12/2012
6695798	CSI-19			19/12/2012
6695799	CSI-20			19/12/2012
6695786	SP66-34			17/12/2012
6695787	SP66-35			17/12/2012
6695790	SP66-36			17/12/2012
6695791	SP66-37			17/12/2012
6695792	SP66-38			19/12/2012
6695794	SP66-39			19/12/2012
6695795	SP66-40			19/12/2012
6695796	SP66-41			19/12/2012

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

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

SOLID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			6695797	CSI-18			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695798	CSI-19			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695799	CSI-20			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695786	SP66-34			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695787	SP66-35			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695790	SP66-36			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695791	SP66-37			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695792	SP66-38			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695794	SP66-39			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695795	SP66-40			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
			6695796	SP66-41			250g Amber Jar (AL
							400g Tub (ALE214)
							60g VOC (ALE215)
Asbestos Identification (Soil)	All	NDPs: 0 Tests: 11					
Asbestos Quantification - Full	All	NDPs: 0 Tests: 1					
EPH CWG (Aliphatic) GC (S)	All	NDPs: 0 Tests: 5					
EPH CWG (Aromatic) GC (S)	All	NDPs: 0 Tests: 11					
GRO by GC-FID (S)	All	NDPs: 0 Tests: 11					
Metals by iCap-OES (Soil)	Arsenic	NDPs: 0 Tests: 11					
	Cadmium	NDPs: 0 Tests: 11					
	Chromium	NDPs: 0 Tests: 11					
	Copper	NDPs: 0 Tests: 11					
	Lead	NDPs: 0 Tests: 11					
	Mercury	NDPs: 0 Tests: 11					
	Nickel	NDPs: 0 Tests: 11					
	Selenium	NDPs: 0 Tests: 11					
	Zinc	NDPs: 0 Tests: 11					
pH	All	NDPs: 0 Tests: 11					

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

SOLID

Results Legend

- **X** Test
- **N** No Determination Possible

Lab Sample No(s)			6695797			6695798			6695799			6695786			6695787			6695790			6695791			6695792			6695794			6695795			6695796		
Customer Sample Reference			CSI-18			CSI-19			CSI-20			SP66-34			SP66-35			SP66-36			SP66-37			SP66-38			SP66-39			SP66-40			SP66-41		
AGS Reference																																				
Depth (m)																																				
Container			250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)	250g Amber Jar (AL	400g Tub (ALE214)	60g VOC (ALE215)
Sample description	All	NDPs: 0 Tests: 11	X			X			X			X			X			X			X			X			X			X			X		
Semi Volatile Organic Compounds	All	NDPs: 0 Tests: 11	X			X			X			X			X			X			X			X			X			X			X		
Total Organic Carbon	All	NDPs: 2 Tests: 9	X			X			X			X			N			X			X			N			X			X			X		
Total Organic Carbon (Asb)	All	NDPs: 0 Tests: 2													X									X											
TPH CWG GC (S)	All	NDPs: 0 Tests: 11	X			X			X			X			X			X			X			X			X			X			X		
VOC MS (S)	All	NDPs: 0 Tests: 11			X			X			X			X			X			X			X			X			X			X			X

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

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
6695797	CSI-18		Dark Brown	Clay	<0.063 mm	None	None
6695798	CSI-19		Dark Brown	Clay	<0.063 mm	Stones	None
6695799	CSI-20		Dark Brown	Clay	<0.063 mm	Stones	Brick
6695786	SP66-34		Dark Brown	Sandy Loam	0.1 - 2 mm	None	Stones
6695787	SP66-35		Dark Brown	Sandy Loam	0.1 - 2 mm	None	Stones
6695790	SP66-36		Dark Brown	Sandy Clay Loam	0.1 - 2 mm	None	Stones
6695791	SP66-37		Dark Brown	Sandy Loam	0.1 - 2 mm	None	Stones
6695792	SP66-38		Dark Brown	Sandy Loam	0.1 - 2 mm	None	Stones
6695794	SP66-39		Dark Brown	Sandy Loam	0.1 - 2 mm	None	Stones
6695795	SP66-40		Grey	Sandy Loam	0.1 - 2 mm	Stones	None
6695796	SP66-41		Black	Loamy Sand	2 - 10 mm	Stones	N/A

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

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring 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.

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CSI-18	CSI-19	CSI-20	SP66-34	SP66-35	SP66-36
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/12/2012	19/12/2012	19/12/2012	17/12/2012	17/12/2012	17/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695797	6695798	6695799	6695786	6695787	6695790
			AGS Reference						
Soil Organic Matter (SOM)	<0.35 %	TM132		2.81 #	2.05 #	1.44 #	2.78 #		1.68 #
pH	1 pH Units	TM133		7.94 M	8.11 M	8.41 M	8.06 M	8.31 M	6.9 M
Arsenic	<0.6 mg/kg	TM181		16.4 M	17.6 M	13.6 M	13.1 M	8.64 M	8.19 M
Cadmium	<0.02 mg/kg	TM181		1.28 M	1.21 M	1.07 M	0.553 M	0.44 M	0.393 M
Chromium	<0.9 mg/kg	TM181		33.9 M	25.6 M	24.8 M	15.2 M	15.5 M	19.9 M
Copper	<1.4 mg/kg	TM181		21.2 M	22.4 M	20 M	22 M	14.9 M	28.1 M
Lead	<0.7 mg/kg	TM181		40.3 M	34.7 M	31.1 M	20.8 M	19.4 M	19.9 M
Mercury	<0.14 mg/kg	TM181		0.376 M	0.29 M	0.294 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		32.9 M	31.3 M	31.8 M	35.1 M	38.7 M	54.4 M
Selenium	<1 mg/kg	TM181		1.17 #	<1 #	<1 #	1.01 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		90 M	101 M	121 M	87.8 M	91.4 M	103 M
Soil Organic Matter (SOM)	<0.1 %	TM321						0.605	

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-37	SP66-38	SP66-39	SP66-40	SP66-41
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/12/2012	19/12/2012	19/12/2012	19/12/2012	19/12/2012
			Sample Time	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695791	6695792	6695794	6695795	6695796
			AGS Reference					
Soil Organic Matter (SOM)	<0.35 %	TM132		1.88 #		1.52 #	1.76 #	4.24 #
pH	1 pH Units	TM133		8.13 M	7.97 M	7.37 M	7.03 M	7.39 M
Arsenic	<0.6 mg/kg	TM181		6.85 M	6.35 M	<6 M	6.9 M	7.05 M
Cadmium	<0.02 mg/kg	TM181		0.439 M	0.443 M	1.28 M	1.07 M	0.362 M
Chromium	<0.9 mg/kg	TM181		16 M	16.1 M	20 M	17.2 M	16.9 M
Copper	<1.4 mg/kg	TM181		10.6 M	13.8 M	21.2 M	12.8 M	14.8 M
Lead	<0.7 mg/kg	TM181		17.7 M	17.7 M	18.9 M	20.2 M	18.1 M
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M	<0.14 M	<0.14 M	<0.14 M
Nickel	<0.2 mg/kg	TM181		39.2 M	36.6 M	55 M	44.1 M	45.7 M
Selenium	<1 mg/kg	TM181		<1 #	<1 #	<10 #	<1 #	<1 #
Zinc	<1.9 mg/kg	TM181		86.2 M	93.5 M	92.4 M	84.6 M	81.8 M
Soil Organic Matter (SOM)	<0.1 %	TM321			0.738			

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Semi Volatile Organic Compounds

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CSI-18	CSI-19	CSI-20	SP66-34	SP66-35	SP66-36
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/12/2012	19/12/2012	19/12/2012	17/12/2012	17/12/2012	17/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695797	6695798	6695799	6695786	6695787	6695790
			AGS Reference						
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CSI-18	CSI-19	CSI-20	SP66-34	SP66-35	SP66-36
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/12/2012	19/12/2012	19/12/2012	17/12/2012	17/12/2012	17/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695797	6695798	6695799	6695786	6695787	6695790
			AGS Reference						
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(a)pyrene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Chrysene	<100 µg/kg	TM157		<100	<100	<100	120	110	<100
Fluoranthene	<100 µg/kg	TM157		<100	<100	<100	123	<100	<100
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Phenanthrene	<100 µg/kg	TM157		<100	<100	<100	130	<100	<100
Pyrene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Naphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-37	SP66-38	SP66-39	SP66-40	SP66-41
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/12/2012	19/12/2012	19/12/2012	19/12/2012	19/12/2012
			Sample Time	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695791	6695792	6695794	6695795	6695796
			AGS Reference					
Phenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Pentachlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
n-Nitroso-n-dipropylamine	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Nitrobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Isophorone	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachloroethane	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachlorocyclopentadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachlorobutadiene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Hexachlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
n-Dioctyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Dimethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Diethyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
n-Dibutyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Dibenzofuran	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Carbazole	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Butylbenzyl phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
bis(2-Ethylhexyl) phthalate	<100 µg/kg	TM157		<100	<100	<100	<100	<100
bis(2-Chloroethoxy)methane	<100 µg/kg	TM157		<100	<100	<100	<100	<100
bis(2-Chloroethyl)ether	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Azobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Chlorophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Chloroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Chloro-3-methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
4-Bromophenylphenylether	<100 µg/kg	TM157		<100	<100	<100	<100	<100
3-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Nitrophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Nitroaniline	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Methylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,2,4-Trichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Semi Volatile Organic Compounds

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-37	SP66-38	SP66-39	SP66-40	SP66-41
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/12/2012	19/12/2012	19/12/2012	19/12/2012	19/12/2012
			Sample Time	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695791	6695792	6695794	6695795	6695796
			AGS Reference					
2-Chlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,6-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4-Dinitrotoluene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4-Dimethylphenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4-Dichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4,6-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2,4,5-Trichlorophenol	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,4-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,3-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
1,2-Dichlorobenzene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Chloronaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
2-Methylnaphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Acenaphthylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Acenaphthene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Benzo(a)anthracene	<100 µg/kg	TM157		<100	148	<100	<100	<100
Benzo(b)fluoranthene	<100 µg/kg	TM157		<100	203	<100	<100	<100
Benzo(k)fluoranthene	<100 µg/kg	TM157		<100	142	<100	<100	<100
Benzo(a)pyrene	<100 µg/kg	TM157		<100	191	<100	<100	<100
Benzo(g,h,i)perylene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Chrysene	<100 µg/kg	TM157		<100	177	<100	<100	<100
Fluoranthene	<100 µg/kg	TM157		<100	176	<100	<100	<100
Fluorene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Indeno(1,2,3-cd)pyrene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Phenanthrene	<100 µg/kg	TM157		<100	130	<100	<100	<100
Pyrene	<100 µg/kg	TM157		<100	177	<100	<100	<100
Naphthalene	<100 µg/kg	TM157		<100	<100	<100	<100	<100
Dibenzo(a,h)anthracene	<100 µg/kg	TM157		<100	<100	<100	<100	<100

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CSI-18	CSI-19	CSI-20	SP66-34	SP66-35	SP66-36
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/12/2012	19/12/2012	19/12/2012	17/12/2012	17/12/2012	17/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695797	6695798	6695799	6695786	6695787	6695790
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		92	82	44	40	51	48
GRO >C5-C12	<44 µg/kg	TM089		<44	<44	243	<44	363	334
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 #	<5 #	<5 #	<5 #	<5 #	<5 #
Benzene	<10 µg/kg	TM089		<10 M	<10 M	<10 M	<10 M	<10 M	<10 M
Toluene	<2 µg/kg	TM089		<2 M	2.6 M	<2 M	<2 M	3.28 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	13 M	6.56 M	14.2 M	8.66 M
o-Xylene	<3 µg/kg	TM089		<3 M	<3 M	3.9 M	<3 M	4.38 M	3.25 M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		<9	<9	16.9	<9	18.6	11.9
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	17.5	10.8
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	<10	48.1	<10	65.6	41.1
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	<10	36.4	<10	50.3	45.4
Aliphatics >C10-C12	<10 µg/kg	TM089		<10	<10	65	<10	101	114
Aliphatics >C12-C16	<100 µg/kg	TM173		<100	9270	5640	5320	10700	5540
Aliphatics >C16-C21	<100 µg/kg	TM173		<100	28700	8890	12600	39400	6910
Aliphatics >C21-C35	<100 µg/kg	TM173		1990	41400	29500	34500	65000	13100
Aliphatics >C35-C44	<100 µg/kg	TM173		<100	29500	6420	19600	14400	2750
Total Aliphatics >C12-C44	<100 µg/kg	TM173		1990	109000	50400	72000	129000	28300
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	44.2	<10	54.7	43.3
Aromatics >EC10-EC12	<10 µg/kg	TM089		<10	<10	42.9	<10	66.7	75.7
Aromatics >EC12-EC16	<100 µg/kg	TM173		2140	4000	2890	3450	2720	<100
Aromatics >EC16-EC21	<100 µg/kg	TM173		3180	12300	4970	7470	21000	<100
Aromatics >EC21-EC35	<100 µg/kg	TM173		34000	32300	22600	28700	54100	<100
Aromatics >EC35-EC44	<100 µg/kg	TM173		43500	32100	8560	20900	17300	<100
Aromatics >EC40-EC44	<100 µg/kg	TM173		21900	17100	3220	10500	6940	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		82800	80600	39000	60600	95100	<100
Total Aliphatics >C5-35	<100 µg/kg	TM173		1990	79300	44100	52400	115000	25800
Total Aromatics >C5-35	<100 µg/kg	TM173		39300	48500	30500	39700	78000	122
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		41300	128000	74600	92100	193000	25900

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

TPH CWG (S)

Results Legend		Customer Sample R	CSI-18	CSI-19	CSI-20	SP66-34	SP66-35	SP66-36
#	ISO17025 accredited.							
M	*m*CERTS 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							
1-4&+§@	Sample deviation (see appendix)							
		Depth (m)	.	.	.	.	.	.
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
		Date Sampled	19/12/2012	19/12/2012	19/12/2012	17/12/2012	17/12/2012	17/12/2012
		Sample Time	.	.	.	.	.	.
		Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
		SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	121220-29
		Lab Sample No.(s)	6695797	6695798	6695799	6695786	6695787	6695790
		AGS Reference						

Component	LOD/Units	Method						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	84700	189000	89600	133000	225000	28600

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-37	SP66-38	SP66-39	SP66-40	SP66-41
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/12/2012	19/12/2012	19/12/2012	19/12/2012	19/12/2012
			Sample Time	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695791	6695792	6695794	6695795	6695796
			AGS Reference					
GRO Surrogate % recovery**	%	TM089		73	56	37	57	28
GRO >C5-C12	<44 µg/kg	TM089		235	310	78.5	2700	393
Methyl tertiary butyl ether (MTBE)	<5 µg/kg	TM089		<5 @ #	<5 ♦ #	<5 #	<5 #	<5 ♦ #
Benzene	<10 µg/kg	TM089		<10 @ M	<10 ♦ M	<10 M	<10 M	<10 ♦ M
Toluene	<2 µg/kg	TM089		4.34 @ M	4.36 ♦ M	2.18 M	<2 M	5.48 ♦ M
Ethylbenzene	<3 µg/kg	TM089		<3 @ M	<3 ♦ M	<3 M	<3 M	<3 ♦ M
m,p-Xylene	<6 µg/kg	TM089		13 @ M	14.2 ♦ M	8.72 M	14.7 M	12.1 ♦ M
o-Xylene	<3 µg/kg	TM089		3.26 @ M	3.27 ♦ M	<3 M	<3 M	3.29 ♦ M
sum of detected mpo xylene by GC	<9 µg/kg	TM089		16.3	17.5	<9	14.7	15.4
sum of detected BTEX by GC	<24 µg/kg	TM089		<24	<24	<24	<24	<24
Aliphatics >C5-C6	<10 µg/kg	TM089		23.9	25.1	<10	20.3	27.4
Aliphatics >C6-C8	<10 µg/kg	TM089		70.5	104	24	149	125
Aliphatics >C8-C10	<10 µg/kg	TM089		23.9	30.5	<10	810	46
Aliphatics >C10-C12	<10 µg/kg	TM089		44.5	62.2	<10	701	83.3
Aliphatics >C12-C16	<100 µg/kg	TM173		12900	<100	<100	7470	4550
Aliphatics >C16-C21	<100 µg/kg	TM173		99900	<100	<100	20300	7030
Aliphatics >C21-C35	<100 µg/kg	TM173		379000	16000	<100	135000	14200
Aliphatics >C35-C44	<100 µg/kg	TM173		110000	4500	<100	35600	3500
Total Aliphatics >C12-C44	<100 µg/kg	TM173		602000	20500	<100	198000	29300
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		33.6	40.4	18.5	555	47.1
Aromatics >EC10-EC12	<10 µg/kg	TM089		30.4	41.5	<10	467	55.9
Aromatics >EC12-EC16	<100 µg/kg	TM173		2900	3030	<100	3690	3960
Aromatics >EC16-EC21	<100 µg/kg	TM173		35200	26100	<100	10400	4120
Aromatics >EC21-EC35	<100 µg/kg	TM173		204000	84300	<100	72000	7020
Aromatics >EC35-EC44	<100 µg/kg	TM173		70000	26700	<100	36000	1670
Aromatics >EC40-EC44	<100 µg/kg	TM173		21900	10000	<100	16900	<100
Total Aromatics >EC12-EC44	<100 µg/kg	TM173		312000	140000	<100	122000	16800
Total Aliphatics >C5-35	<100 µg/kg	TM173		492000	16300	<100	165000	26100
Total Aromatics >C5-35	<100 µg/kg	TM173		242000	113000	<100	87000	15200
Total Aliphatics & Aromatics >C5-35	<100 µg/kg	TM173		734000	130000	<100	252000	41300

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

TPH CWG (S)

Results Legend		Customer Sample R	SP66-37	SP66-38	SP66-39	SP66-40	SP66-41	
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.	Depth (m)	.	.	.	.	.	
diss.filt	Dissolved / filtered sample.	Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
tot.unfilt	Total / unfiltered sample.	Date Sampled	17/12/2012	19/12/2012	19/12/2012	19/12/2012	19/12/2012	
*	Subcontracted test.	Sample Time	.	.	.	.	.	
**	% 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	Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	
		SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	
(F)	Trigger breach confirmed	Lab Sample No.(s)	6695791	6695792	6695794	6695795	6695796	
1-4&+§@	Sample deviation (see appendix)	AGS Reference						
Component	**LOD/Units**	**Method**						
Total Aliphatics & Aromatics >C5-C44	<100 µg/kg	TM173	914000	161000	<100	323000	46400	

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CSI-18	CSI-19	CSI-20	SP66-34	SP66-35	SP66-36
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/12/2012	19/12/2012	19/12/2012	17/12/2012	17/12/2012	17/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695797	6695798	6695799	6695786	6695787	6695790
			AGS Reference						
Dibromofluoromethane**	%	TM116		101	93	116	107	91.7 @	97.9 @
Toluene-d8**	%	TM116		100	99.7	103	97.8	93.8 @	98.1 @
4-Bromofluorobenzene**	%	TM116		110	115	99.1	123	134 @	119 @
Dichlorodifluoromethane	<4 µg/kg	TM116		<4 M	<4 M	<80 M	<8 M	<4 @ M	<4 @ M
Chloromethane	<7 µg/kg	TM116		<7	<7	<140	<14	<7 @	<7 @
Vinyl Chloride	<10 µg/kg	TM116		<10	<10	<200	<20	<10 @	<10 @
Bromomethane	<13 µg/kg	TM116		<13 M	<13 M	<260 M	<26 M	<13 @ M	<13 @ M
Chloroethane	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<28 M	<14 @ M	<14 @ M
Trichlorofluorormethane	<6 µg/kg	TM116		<6 M	<6 M	<120 M	<12 M	<6 @ M	<6 @ M
1,1-Dichloroethene	<10 µg/kg	TM116		<10 #	<10 #	<200 #	<20 #	<10 @ #	<10 @ #
Carbon Disulphide	<7 µg/kg	TM116		<7 M	<7 M	<140 M	<14 M	<7 @ M	<7 @ M
Dichloromethane	<10 µg/kg	TM116		<10 #	<10 #	<200 #	<20 #	<10 @ #	<10 @ #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<22 M	<11 @ M	<11 @ M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<22 M	<11 @ M	<11 @ M
1,1-Dichloroethane	<8 µg/kg	TM116		<8 M	<8 M	<160 M	<16 M	<8 @ M	<8 @ M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<10 M	<5 @ M	<5 @ M
2,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<24 M	<12 @ M	<12 @ M
Bromochloromethane	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<28 M	<14 @ M	<14 @ M
Chloroform	<8 µg/kg	TM116		<8 M	<8 M	<160 M	<16 M	<8 @ M	<8 @ M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<7 M	<7 M	<140 M	<14 M	<7 @ M	<7 @ M
1,1-Dichloropropene	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<22 M	<11 @ M	<11 @ M
Carbontetrachloride	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<28 M	<14 @ M	<14 @ M
1,2-Dichloroethane	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<10 M	<5 @ M	<5 @ M
Benzene	<9 µg/kg	TM116		<9 M	<9 M	<180 M	<18 M	<9 @ M	<9 @ M
Trichloroethene	<9 µg/kg	TM116		<9 M	<9 M	<180 M	<18 M	<9 @ M	<9 @ M
1,2-Dichloropropane	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<24 M	<12 @ M	<12 @ M
Dibromomethane	<9 µg/kg	TM116		<9 M	<9 M	<180 M	<18 M	<9 @ M	<9 @ M
Bromodichloromethane	<7 µg/kg	TM116		<7 M	<7 M	<140 M	<14 M	<7 @ M	<7 @ M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<28 M	<14 @ M	<14 @ M
Toluene	<5 µg/kg	TM116		<5 M	13 M	<100 M	<10 M	11.2 @ M	<5 @ M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<14	<14	<280	<28	<14 @	<14 @
1,1,2-Trichloroethane	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<20 M	<10 @ M	<10 @ M

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CSI-18	CSI-19	CSI-20	SP66-34	SP66-35	SP66-36
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/12/2012	19/12/2012	19/12/2012	17/12/2012	17/12/2012	17/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695797	6695798	6695799	6695786	6695787	6695790
			AGS Reference						
1,3-Dichloropropane	<7 µg/kg	TM116		<7 #	<7 #	<140 #	<14 #	<7 @ #	<7 @ #
Tetrachloroethene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<10 M	<5 @ M	<5 @ M
Dibromochloromethane	<13 µg/kg	TM116		<13 M	<13 M	<260 M	<26 M	<13 @ M	<13 @ M
1,2-Dibromoethane	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<24 M	<12 @ M	<12 @ M
Chlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<10 M	<5 @ M	<5 @ M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<20 M	<10 @ M	<10 @ M
Ethylbenzene	<4 µg/kg	TM116		<4 M	<4 M	<80 M	<8 M	<4 @ M	<4 @ M
p/m-Xylene	<14 µg/kg	TM116		<14 #	<14 #	<280 #	<28 #	23.7 @ #	<14 @ #
o-Xylene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<20 M	<10 @ M	<10 @ M
Styrene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<20 M	<10 @ M	<10 @ M
Bromoform	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<20 M	<10 @ M	<10 @ M
Isopropylbenzene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<10 M	<5 @ M	<5 @ M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<10 #	<10 #	<200 #	<20 #	<10 @ #	<10 @ #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<17 M	<17 M	<340 M	<34 M	<17 @ M	<17 @ M
Bromobenzene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<20 M	<10 @ M	<10 @ M
Propylbenzene	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<22 M	<11 @ M	<11 @ M
2-Chlorotoluene	<9 µg/kg	TM116		<9 M	<9 M	<180 M	<18 M	<9 @ M	<9 @ M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<8 #	<8 #	<160 #	<16 #	<8 @ #	<8 @ #
4-Chlorotoluene	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<24 M	<12 @ M	<12 @ M
tert-Butylbenzene	<12 µg/kg	TM116		<12 #	<12 #	<240 #	<24 #	<12 @ #	<12 @ #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<9 #	<9 #	<180 #	<18 #	<9 @ #	<9 @ #
sec-Butylbenzene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<20 M	<10 @ M	<10 @ M
4-Isopropyltoluene	<11 µg/kg	TM116		<11 M	<11 M	<220 M	<22 M	<11 @ M	<11 @ M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<6 M	<6 M	<120 M	<12 M	<6 @ M	<6 @ M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<5 M	<5 M	<100 M	<10 M	<5 @ M	<5 @ M
n-Butylbenzene	<10 µg/kg	TM116		<10 M	<10 M	<200 M	<20 M	<10 @ M	<10 @ M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<12 M	<12 M	<240 M	<24 M	<12 @ M	<12 @ M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<14 M	<14 M	<280 M	<28 M	<14 @ M	<14 @ M
Tert-amyl methyl ether	<15 µg/kg	TM116		<15	<15	<300	<30	<15 @	<15 @
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<6 #	<6 #	<120 #	<12 #	<6 @ #	<6 @ #
Hexachlorobutadiene	<12 µg/kg	TM116		<12	<12	<240	<24	<12 @	<12 @
Naphthalene	<13 µg/kg	TM116		<13 M	<13 M	<260 M	<26 M	<13 @ M	<13 @ M

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
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**	% 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	CSI-18	CSI-19	CSI-20	SP66-34	SP66-35	SP66-36
			Depth (m)	.	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	19/12/2012	19/12/2012	19/12/2012	17/12/2012	17/12/2012	17/12/2012
			Sample Time	.	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695797	6695798	6695799	6695786	6695787	6695790
			AGS Reference						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116		<6 M	<6 M	<120 M	<12 M	<6 @ M	<6 @ M

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

VOC MS (S)

Results Legend

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aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
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**	% 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-37	SP66-38	SP66-39	SP66-40	SP66-41
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/12/2012	19/12/2012	19/12/2012	19/12/2012	19/12/2012
			Sample Time	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695791	6695792	6695794	6695795	6695796
			AGS Reference					
Dibromofluoromethane**	%	TM116		110	107	95	105	107
Toluene-d8**	%	TM116		101	102	96	98.1	101
4-Bromofluorobenzene**	%	TM116		105	105	129	128	109
Dichlorodifluoromethane	<4 µg/kg	TM116		<80 M	<80 M	<4 M	<8 M	<80 M
Chloromethane	<7 µg/kg	TM116		<140	<140	<7	<14	<140
Vinyl Chloride	<10 µg/kg	TM116		<200	<200	<10	<20	<200
Bromomethane	<13 µg/kg	TM116		<260 M	<260 M	<13 M	<26 M	<260 M
Chloroethane	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<28 M	<280 M
Trichlorofluorormethane	<6 µg/kg	TM116		<120 M	<120 M	<6 M	<12 M	<120 M
1,1-Dichloroethene	<10 µg/kg	TM116		<200 #	<200 #	<10 #	<20 #	<200 #
Carbon Disulphide	<7 µg/kg	TM116		<140 M	<140 M	<7 M	<14 M	<140 M
Dichloromethane	<10 µg/kg	TM116		<200 #	<200 #	<10 #	<20 #	<200 #
Methyl Tertiary Butyl Ether	<11 µg/kg	TM116		<220 M	<220 M	<11 M	<22 M	<220 M
trans-1,2-Dichloroethene	<11 µg/kg	TM116		<220 M	<220 M	<11 M	<22 M	<220 M
1,1-Dichloroethane	<8 µg/kg	TM116		<160 M	<160 M	<8 M	<16 M	<160 M
cis-1,2-Dichloroethene	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<10 M	<100 M
2,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<24 M	<240 M
Bromochloromethane	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<28 M	<280 M
Chloroform	<8 µg/kg	TM116		<160 M	<160 M	<8 M	<16 M	<160 M
1,1,1-Trichloroethane	<7 µg/kg	TM116		<140 M	<140 M	<7 M	<14 M	<140 M
1,1-Dichloropropene	<11 µg/kg	TM116		<220 M	<220 M	<11 M	<22 M	<220 M
Carbontetrachloride	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<28 M	<280 M
1,2-Dichloroethane	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<10 M	<100 M
Benzene	<9 µg/kg	TM116		<180 M	<180 M	<9 M	<18 M	<180 M
Trichloroethene	<9 µg/kg	TM116		<180 M	<180 M	<9 M	<18 M	<180 M
1,2-Dichloropropane	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<24 M	<240 M
Dibromomethane	<9 µg/kg	TM116		<180 M	<180 M	<9 M	<18 M	<180 M
Bromodichloromethane	<7 µg/kg	TM116		<140 M	<140 M	<7 M	<14 M	<140 M
cis-1,3-Dichloropropene	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<28 M	<280 M
Toluene	<5 µg/kg	TM116		<100 M	<100 M	6.15 M	19.6 M	<100 M
trans-1,3-Dichloropropene	<14 µg/kg	TM116		<280	<280	<14	<28	<280
1,1,2-Trichloroethane	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<20 M	<200 M

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS 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
1-4&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample R	SP66-37	SP66-38	SP66-39	SP66-40	SP66-41
			Depth (m)	.	.	.	.	.
			Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid
			Date Sampled	17/12/2012	19/12/2012	19/12/2012	19/12/2012	19/12/2012
			Sample Time	.	.	.	.	.
			Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012
			SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29
			Lab Sample No.(s)	6695791	6695792	6695794	6695795	6695796
			AGS Reference					
1,3-Dichloropropane	<7 µg/kg	TM116		<140 #	<140 #	<7 #	<14 #	<140 #
Tetrachloroethene	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<10 M	<100 M
Dibromochloromethane	<13 µg/kg	TM116		<260 M	<260 M	<13 M	<26 M	<260 M
1,2-Dibromoethane	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<24 M	<240 M
Chlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<10 M	<100 M
1,1,1,2-Tetrachloroethane	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<20 M	<200 M
Ethylbenzene	<4 µg/kg	TM116		<80 M	<80 M	<4 M	<8 M	<80 M
p/m-Xylene	<14 µg/kg	TM116		<280 #	<280 #	16.4 #	<28 #	<280 #
o-Xylene	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<20 M	<200 M
Styrene	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<20 M	<200 M
Bromoform	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<20 M	<200 M
Isopropylbenzene	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<10 M	<100 M
1,1,2,2-Tetrachloroethane	<10 µg/kg	TM116		<200 #	<200 #	<10 #	<20 #	<200 #
1,2,3-Trichloropropane	<17 µg/kg	TM116		<340 M	<340 M	<17 M	<34 M	<340 M
Bromobenzene	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<20 M	<200 M
Propylbenzene	<11 µg/kg	TM116		<220 M	<220 M	<11 M	<22 M	<220 M
2-Chlorotoluene	<9 µg/kg	TM116		<180 M	<180 M	<9 M	<18 M	<180 M
1,3,5-Trimethylbenzene	<8 µg/kg	TM116		<160 #	<160 #	<8 #	<16 #	<160 #
4-Chlorotoluene	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<24 M	<240 M
tert-Butylbenzene	<12 µg/kg	TM116		<240 #	<240 #	<12 #	<24 #	<240 #
1,2,4-Trimethylbenzene	<9 µg/kg	TM116		<180 #	<180 #	<9 #	<18 #	<180 #
sec-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<20 M	<200 M
4-Isopropyltoluene	<11 µg/kg	TM116		<220 M	<220 M	<11 M	<22 M	<220 M
1,3-Dichlorobenzene	<6 µg/kg	TM116		<120 M	<120 M	<6 M	<12 M	<120 M
1,4-Dichlorobenzene	<5 µg/kg	TM116		<100 M	<100 M	<5 M	<10 M	<100 M
n-Butylbenzene	<10 µg/kg	TM116		<200 M	<200 M	<10 M	<20 M	<200 M
1,2-Dichlorobenzene	<12 µg/kg	TM116		<240 M	<240 M	<12 M	<24 M	<240 M
1,2-Dibromo-3-chloropropane	<14 µg/kg	TM116		<280 M	<280 M	<14 M	<28 M	<280 M
Tert-amyl methyl ether	<15 µg/kg	TM116		<300	<300	<15	<30	<300
1,2,4-Trichlorobenzene	<6 µg/kg	TM116		<120 #	<120 #	<6 #	<12 #	<120 #
Hexachlorobutadiene	<12 µg/kg	TM116		<240	<240	<12	<24	<240
Naphthalene	<13 µg/kg	TM116		<260 M	<260 M	<13 M	<26 M	<260 M

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

VOC MS (S)

Results Legend		Customer Sample R	SP66-37	SP66-38	SP66-39	SP66-40	SP66-41	
#	ISO17025 accredited.							
M	*m*CERTS 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	Depth (m)	.	.	.	.	.	
		Sample Type	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	Soil/Solid	
		Date Sampled	17/12/2012	19/12/2012	19/12/2012	19/12/2012	19/12/2012	
		Sample Time	.	.	.	.	.	
		Date Received	20/12/2012	20/12/2012	20/12/2012	20/12/2012	20/12/2012	
		SDG Ref	121220-29	121220-29	121220-29	121220-29	121220-29	
(F)	Trigger breach confirmed	Lab Sample No.(s)	6695791	6695792	6695794	6695795	6695796	
1-4&+§@	Sample deviation (see appendix)	AGS Reference						

Component	LOD/Units	Method						
1,2,3-Trichlorobenzene	<6 µg/kg	TM116	<120 M	<120 M	<6 M	<12 M	<120 M	

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Asbestos Identification - Soil

		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 Receieved SDG Original Sample Method Number	CSI-18 SOLID 19/12/2012 00:00:00 121220-29 6695797 TM048	10/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CSI-19 SOLID 19/12/2012 00:00:00 121220-29 6695798 TM048	10/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	CSI-20 SOLID 19/12/2012 00:00:00 121220-29 6695799 TM048	10/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-34 SOLID 17/12/2012 00:00:00 121220-29 6695786 TM048	10/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-35 SOLID 17/12/2012 00:00:00 121220-29 6695787 TM048	10/01/13	Martin Cotterell	Loose fibres in soil	Not Detected (#)	Trace (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

		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 Receieved SDG Original Sample Method Number	SP66-36 SOLID 17/12/2012 00:00:00 121220-29 6695790 TM048	10/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-37 SOLID 17/12/2012 00:00:00 121220-29 6695791 TM048	10/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-38 SOLID 19/12/2012 00:00:00 121220-29 6695792 TM048	10/01/13	Martin Cotterell	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 Receieved SDG Original Sample Method Number	SP66-39 SOLID 19/12/2012 00:00:00 121220-29 6695794 TM048	10/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-40 SOLID 19/12/2012 00:00:00 121220-29 6695795 TM048	10/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	SP66-41 SOLID 19/12/2012 00:00:00 121220-29 6695796 TM048	10/01/13	Martin Cotterell	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

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 Receieved SDG Original Sample Method Number	SP66-38 SOLID 19/12/2012 00:00:00 121220-29 6695792 TM 304	None (#)	N/C	<0.001 (#)	<0.001 (#)	<0.001 (#)

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Notification of NDPs (No determination possible)

Date Received : 20/12/2012 08:51:40

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
6695787	SP66-35		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6695787	SP66-35		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6695792	SP66-38		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos
6695792	SP66-38		Total Organic Carbon	Unsuitable for analysis due to potential Asbestos

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

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)		
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS		
TM132	In - house Method	ELTRA CS800 Operators Guide		
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter		
TM157	HP 6890 Gas Chromatograph (GC) system and HP 5973 Mass Selective Detector (MSD).	Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone		
TM173	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GC-FID		
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES		
TM321		Organic matter Content of Soil By Titration		

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

CERTIFICATE OF ANALYSIS

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Test Completion Dates

Lab Sample No(s)	6695797	6695798	6695799	6695786	6695787	6695790	6695791	6695792	6695794	6695795
Customer Sample Ref.	CSI-18	CSI-19	CSI-20	SP66-34	SP66-35	SP66-36	SP66-37	SP66-38	SP66-39	SP66-40
AGS Ref.										
Depth										
Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Asbestos Identification (Soil)	11-Jan-2013	11-Jan-2013	11-Jan-2013	11-Jan-2013	11-Jan-2013	11-Jan-2013	11-Jan-2013	11-Jan-2013	11-Jan-2013	11-Jan-2013
Asbestos Quantification - Full								31-Jan-2013		
EPH CWG (Aliphatic) GC (S)	04-Jan-2013	04-Jan-2013	04-Jan-2013	07-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013
EPH CWG (Aromatic) GC (S)	04-Jan-2013	04-Jan-2013	04-Jan-2013	07-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013
GRO by GC-FID (S)	03-Jan-2013	03-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013
Metals by iCap-OES (Soil)	04-Jan-2013	04-Jan-2013	04-Jan-2013	02-Jan-2013	02-Jan-2013	02-Jan-2013	03-Jan-2013	02-Jan-2013	04-Jan-2013	04-Jan-2013
pH	03-Jan-2013	02-Jan-2013	02-Jan-2013	02-Jan-2013	02-Jan-2013	02-Jan-2013	02-Jan-2013	02-Jan-2013	02-Jan-2013	02-Jan-2013
Sample description	28-Dec-2012	28-Dec-2012	28-Dec-2012	28-Dec-2012	28-Dec-2012	28-Dec-2012	28-Dec-2012	28-Dec-2012	28-Dec-2012	28-Dec-2012
Semi Volatile Organic Compounds	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	05-Jan-2013	05-Jan-2013	04-Jan-2013
Total Organic Carbon	14-Jan-2013	14-Jan-2013	14-Jan-2013	14-Jan-2013		14-Jan-2013	14-Jan-2013		14-Jan-2013	14-Jan-2013
Total Organic Carbon (Asb)					14-Jan-2013			14-Jan-2013		
TPH CWG GC (S)	04-Jan-2013	04-Jan-2013	04-Jan-2013	07-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013	04-Jan-2013
VOC MS (S)	03-Jan-2013	03-Jan-2013	04-Jan-2013	04-Jan-2013	03-Jan-2013	03-Jan-2013	04-Jan-2013	04-Jan-2013	03-Jan-2013	04-Jan-2013

Lab Sample No(s)	6695796
Customer Sample Ref.	SP66-41
AGS Ref.	
Depth	
Type	SOLID
Asbestos Identification (Soil)	11-Jan-2013
EPH CWG (Aliphatic) GC (S)	04-Jan-2013
EPH CWG (Aromatic) GC (S)	04-Jan-2013
GRO by GC-FID (S)	04-Jan-2013
Metals by iCap-OES (Soil)	04-Jan-2013
pH	02-Jan-2013
Sample description	28-Dec-2012
Semi Volatile Organic Compounds	04-Jan-2013
Total Organic Carbon	14-Jan-2013
TPH CWG GC (S)	04-Jan-2013
VOC MS (S)	04-Jan-2013

SDG:	121220-29	**Location:**	Coed Darcy Urban Village	**Order Number:**	CD0336
Job:	H_ATKINS_LDC-40	**Customer:**	Atkins Global Ltd	**Report Number:**	210533
Client Reference:	Stockpiles	**Attention:**	Selina Bamforth	**Superseded Report:**	210530

Appendix
General

1. Results are expressed on a dry weight basis (dried at 35ºC) 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 2 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 Dimethyphenol, 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**
§	**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.

Monitor Phase 33 - Blob test results

Customer Sample ID	Depth	Sampled Date	Sample Received Date	Final Instruction Date	Report Completed Date	SDG	Analysis	Soil Organic Matter (SOM)	pH	Methyl tertiary butyl ether (MTBE)	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	sum of detected mpo xylene by GC
							Test	Soil Organic Matter (SOM)	pH	Methyl tertiary butyl ether (MTBE)	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	sum of detected mpo xylene by GC
							Method	TM132	TM133	TM089	TM089	TM089	TM089	TM089	TM089	TM089
							Units	%	pH Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
							LOD	<0.35	<1	<5	<10	<2	<3	<6	<3	<9
							RESI >1m				400	52000	140000	58000	58000	
							POS >1m				48000			478000	478000	
							MAX	2.29	9.03	0	1000	51.7	33.1	103	62.2	143
SL1	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	6.88	<20	<40	<8	<12	<24	<12	<9
SL10	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	6.56	<20	84.1	<8	<12	<24	<12	<9
SL11	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	6.72	<20	110	<8	<12	47.7	<12	47.7
SL12	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.77	<20	<40	<8	33.1	29.6	<12	29.6
SL13	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		0.998	8.1	<20	<40	<8	<12	<24	<12	<9
SL14	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.68	<20	<40	15.1	32.5	44.1	<12	44.1
SL15	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	8.26	<20	<40	<8	<12	<24	<12	<9
SL16	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.22	<20	214	51.7	<12	103	39.6	143
SL17	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	6.66	<20	<40	<8	<12	<24	<12	<9
SL18	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.95	<20	<40	<8	<12	<24	<12	<9
SL19	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	6.8	<20	<40	<8	<12	27.7	<12	27.7
SL2	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.84	<5	32.9	<2	<3	<6	<3	<9
SL20	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.78	<50	323	<20	<30	<60	<30	<9
SL21	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		1.61	7.64	<20	<40	<8	<12	<24	<12	<9
SL22	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.49	<20	<40	<8	<12	<24	<12	<9
SL23	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.15	<20	<40	<8	<12	<24	<12	<9
SL24	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.26	<20	239	28.5	<12	<24	14.3	14.3
SL25	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		2.07	7.18	<20	420	<8	<12	58.8	<12	58.8
SL26	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.53	<20	1000	<8	<12	<24	<12	<9
SL27	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.05	<20	<40	<8	<12	<24	<12	<9
SL28	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.66	<20	200	<8	<12	<24	<12	<9
SL29	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		2.07	7.86	<20	<40	<8	<12	<24	<12	<9
SL3	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.43	<20	<40	<8	<12	<24	62.2	62.2
SL30	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.33	<20	<40	<8	<12	<24	<12	<9
SL4	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.05	<20	205	9.69	<12	<24	<12	<9
SL5	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.04	<20	<40	<8	<12	<24	<12	<9
SL6	0.00-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	9.03	<20	<40	<8	<12	<24	<12	<9
SL7	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	7.04	<20	<40	<8	<12	<24	<12	<9
SL8	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		2.29	7.54	<20	<40	<8	<12	<24	<12	<9
SL9	0.20-	21/10/2015	22/10/2015	22/10/2015	28/10/2015	151022-43		-	8.4	<20	<40	<8	<12	<24	<12	<9

Monitor Phase 33 - Blob test results

	sum of detected BTEX by GC	Aliphatics >C5-C6	Aliphatics >C6-C8	Aliphatics >C8-C10	Aliphatics >C10-C12	Aliphatics >C12-C16	Aliphatics >C16-C21	Aliphatics >C21-C35	Aliphatics >C35-C44	Total Aliphatics >C12-C44	Aromatics >EC5-EC7	Aromatics >EC7-EC8	Aromatics >EC8-EC10	Aromatics >EC10-EC12	Aromatics >EC12-EC16	Aromatics >EC16-EC21
	TM089	TM089	TM089	TM089	TM089	TM173	TM173	TM173	TM173	TM173	TM089	TM089	TM089	TM089	TM173	TM173
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<24	<10	<10	<10	<10	<100	<100	<100	<100	<100	<10	<10	<10	<10	<100	<100
		112000		42500							460	146000	71000	1390000		
											432000					
Customer Sample ID	1000	2830	171000	129000	71000	568000	496000	161000	18400	1240000	1000	51.7	85700	47400	178000	211000
SL1	<24	149	15000	55300	71000	568000	496000	161000	18400	1240000	<40	<40	36900	47400	178000	211000
SL10	84.1	668	2680	1050	1000	1500	239	<100	<100	1740	84.1	<40	701	667	458	<100
SL11	158	2720	4600	1000	818	<100	<100	<100	<100	<100	110	<40	716	546	1340	<100
SL12	62.7	189	698	453	694	14800	21300	34600	8480	79200	<40	<40	364	463	3190	9820
SL13	<24	<40	168	215	443	7660	11800	15500	4930	39900	<40	<40	142	295	1470	5270
SL14	91.7	229	593	361	327	1580	5810	19400	5110	31900	<40	<40	317	218	1640	4060
SL15	<24	58.4	129	<40	<40	<100	<100	<100	<100	<100	<40	<40	<40	<40	543	1160
SL16	409	825	2480	707	920	<100	<100	<100	<100	<100	214	51.7	613	613	452	237
SL17	<24	<40	<40	<40	<40	<100	<100	<100	<100	<100	<40	<40	<40	<40	569	303
SL18	<24	104	2360	3910	2820	<100	<100	<100	<100	<100	<40	<40	2610	1880	<100	<100
SL19	27.7	509	2220	371	445	<100	<100	<100	<100	<100	<40	<40	287	297	819	195
SL2	32.9	28.5	3650	5580	13600	249000	80800	32200	5310	367000	32.9	<10	3720	9100	53000	40300
SL20	323	2090	171000	129000	20200	23900	9520	20700	14400	68600	323	<100	85700	13500	6760	4220
SL21	<24	344	5190	5370	11400	14900	6760	3020	<100	24700	<40	<40	3580	7590	4830	1780
SL22	<24	<40	<40	<40	<40	<100	<100	<100	<100	<100	<40	<40	<40	<40	<100	598
SL23	<24	<40	<40	<40	<40	1160	2410	6030	1380	11000	<40	<40	<40	<40	718	1690
SL24	282	567	2300	378	397	<100	<100	<100	<100	<100	239	<40	291	265	558	<100
SL25	479	695	3060	817	1290	1620	715	2840	<100	5170	420	<40	603	860	2000	663
SL26	1000	920	11100	24100	31000	76300	17600	2370	<100	96200	1000	<40	16100	20700	23500	9280
SL27	<24	172	8020	13900	19000	40100	10600	<100	<100	50700	<40	<40	9280	12700	16800	7430
SL28	200	1400	19900	19500	17300	70300	42600	23200	2540	139000	200	<40	13000	11500	21200	20400
SL29	<24	<40	181	67.7	<40	<100	<100	<100	<100	<100	<40	<40	44.4	<40	416	794
SL3	62.2	2830	10200	884	374	11300	16600	20300	7370	55500	<40	<40	651	250	2860	7830
SL30	<24	<40	253	82.1	79.9	<100	<100	<100	<100	<100	<40	<40	54.4	53.3	387	<100
SL4	215	465	990	100	61.4	<100	<100	<100	<100	<100	205	<40	66.8	40.9	694	1140
SL5	<24	<40	156	252	478	4500	9830	35800	9510	59600	<40	<40	168	319	1990	5430
SL6	<24	<40	99.5	<40	<40	<100	<100	<100	<100	<100	<40	<40	<40	<40	854	1080
SL7	<24	96.7	884	1200	2000	555	1020	4320	778	6670	<40	<40	801	1340	1300	2110
SL8	<24	<40	<40	<40	<40	352	490	807	<100	1650	<40	<40	<40	<40	505	772
SL9	<24	207	520	132	119	<100	<100	<100	<100	<100	41.3	<40	113	78.3	461	827

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	Aromatics >EC21-EC35	Aromatics >EC35-EC44	Aromatics >EC40-EC44	Total Aromatics >EC12-EC44	Total Aliphatics & Aromatics >C5-C44	Naphthalene-d8 % recovery**	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benz(a)anthracene
	TM173	TM173	TM173	TM173	TM173	TM218	TM218	TM218	TM218	TM218	TM218	TM218	TM218	TM218	TM218
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<100	<100	<100	<100	<100		<9	<12	<8	<10	<15	<16	<17	<15	<14
							2800								
Customer Sample ID	131000	37600	15100	558000	2030000	106	273	57.3	826	955	2500	977	11800	8270	9960
SL1	131000	37600	15100	558000	2030000	96.1	273	<12	204	500	630	238	252	272	93.6
SL10	<100	<100	<100	458	9050	97.1	30.2	<12	<8	<10	72.1	<16	<17	<15	<14
SL11	<100	<100	<100	1340	11800	93.5	39.6	<12	<8	18	127	<16	<17	<15	<14
SL12	25400	8460	2970	46800	129000	87.2	56.5	<12	11.3	21.2	79.8	<16	54.6	77.9	22.4
SL13	13700	10200	4780	30700	71800	103	<9	<12	17.3	<10	78.4	20.8	184	179	98.3
SL14	22900	9890	4340	38500	72500	95.2	58.5	<12	<8	14.5	92.8	<16	157	135	85.1
SL15	2890	<100	<100	4590	4830	92.5	<9	<12	<8	34.7	154	<16	<17	19.7	<14
SL16	1460	<100	<100	2150	8570	90.6	20.2	<12	<8	<10	103	<16	<17	<15	<14
SL17	1010	<100	<100	1890	1890	96.1	12.7	<12	<8	33.8	158	<16	<17	21.9	<14
SL18	<100	<100	<100	<100	13700	97.7	<9	<12	<8	<10	<15	<16	<17	<15	<14
SL19	<100	<100	<100	1010	5140	91.6	33.3	<12	<8	<10	93.6	<16	<17	<15	<14
SL2	33800	9190	3580	136000	539000	98.1	226	57.3	443	955	1530	271	719	505	274
SL20	12400	8670	4030	32100	522000	104	98.2	<12	26.4	52.4	163	<16	23.5	18.3	28.6
SL21	692	<100	<100	7300	65500	98	27.7	<12	<8	<10	99.4	<16	<17	<15	<14
SL22	1750	<100	<100	2350	2350	102	<9	<12	<8	36.9	150	<16	<17	<15	16.3
SL23	4840	789	<100	8040	19100	98.4	23.1	<12	<8	30.3	106	<16	20.1	24.8	19.2
SL24	<100	<100	<100	558	5020	91.5	12.3	<12	<8	<10	105	<16	<17	<15	<14
SL25	1270	<100	<100	3940	16900	98.8	47.3	<12	18.2	22.4	124	<16	<17	<15	42.4
SL26	7600	8120	3940	48500	250000	106	247	<12	62.2	114	215	<16	57.8	51	37.7
SL27	3060	<100	<100	27300	141000	98.9	66.8	<12	49.2	65	132	<16	<17	<15	16.3
SL28	22800	5970	2330	70400	292000	95.8	80.5	<12	30.3	90.9	164	19.1	20.5	<15	24.2
SL29	1960	<100	<100	3170	3550	102	<9	<12	<8	<10	116	<16	<17	20.7	17.3
SL3	21100	7770	3040	39500	110000	104	78.1	<12	826	268	2500	977	11800	8270	9960
SL30	463	<100	<100	850	1410	92.6	<9	<12	<8	28.8	102	<16	<17	<15	<14
SL4	2250	<100	<100	4090	6020	99.1	<9	<12	<8	36	112	<16	<17	<15	22.3
SL5	39300	16200	6090	62900	124000	93.1	52.4	<12	10.4	14.3	116	20.2	88.6	89.1	<14
SL6	2500	<100	<100	4430	4610	98.6	22.5	<12	<8	35.6	131	<16	<17	<15	<14
SL7	8060	2520	978	14000	27000	104	11.6	<12	<8	50.7	174	<16	60.3	44.3	31.8
SL8	2610	<100	<100	3880	5540	95.9	<9	<12	<8	<10	107	<16	<17	<15	<14
SL9	2980	<100	<100	4270	5490	98.2	10.7	<12	<8	<10	81.2	<16	<17	<15	34.8

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	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	PAH, Total Detected USEPA 16	Phenol	Pentachlorophenol	n-Nitroso-n-dipropylamine	Nitrobenzene
	TM218	TM218	TM218	TM218	TM218	TM218	TM218	TM218	TM157	TM157	TM157	TM157
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<10	<15	<14	<15	<18	<23	<24	<118	<100	<100	<100	<100
									1030000			
Customer Sample ID	9270	10800	3400	6600	2830	1330	2730	71600	0	0	0	0
SL1	135	86.8	19	45.6	<18	<23	<24	2750	<100	<100	<100	<100
SL10	<10	<15	<14	<15	<18	<23	<24	<118	<100	<100	<100	<100
SL11	38.5	35	<14	<15	<18	<23	<24	258	<100	<100	<100	<100
SL12	49.7	43.6	<14	22.9	<18	<23	<24	440	<100	<100	<100	<100
SL13	99.5	84.5	29.6	49.9	22.4	<23	28.7	893	<100	<100	<100	<100
SL14	100	65.9	20.3	38.5	<18	<23	<24	767	<100	<100	<100	<100
SL15	48.4	41.6	<14	<15	<18	<23	<24	299	<100	<100	<100	<100
SL16	31.3	37.7	<14	<15	<18	<23	<24	192	<100	<100	<100	<100
SL17	52.2	45	<14	<15	<18	<23	<24	323	<100	<100	<100	<100
SL18	<10	<15	<14	<15	<18	<23	<24	<118	<100	<100	<100	<100
SL19	47.2	48.3	<14	<15	<18	<23	<24	222	<100	<100	<100	<100
SL2	267	311	98.4	195	92.8	34	103	6080	<100	<100	<100	<100
SL20	71.1	66.5	<14	<15	<18	<23	<24	548	<100	<100	<100	<100
SL21	<10	<15	<14	<15	<18	<23	<24	127	<100	<100	<100	<100
SL22	41.8	36.4	<14	<15	<18	<23	<24	281	<100	<100	<100	<100
SL23	28.7	31.8	<14	<15	<18	<23	<24	284	<100	<100	<100	<100
SL24	37.2	40	<14	<15	<18	<23	<24	195	<100	<100	<100	<100
SL25	47.9	53.3	<14	<15	<18	<23	<24	356	<100	<100	<100	<100
SL26	62.1	54.2	<14	19.6	<18	<23	<24	921	<100	<100	<100	<100
SL27	24	39.8	<14	<15	<18	<23	<24	394	<100	<100	<100	<100
SL28	31.9	32.9	<14	<15	<18	<23	<24	495	<100	<100	<100	<100
SL29	50.3	40.5	<14	<15	<18	<23	<24	244	<100	<100	<100	<100
SL3	9270	10800	3400	6600	2830	1330	2730	71600	<100	<100	<100	<100
SL30	37.4	31.5	<14	<15	<18	<23	<24	200	<100	<100	<100	<100
SL4	31.9	25.5	<14	<15	<18	<23	<24	228	<100	<100	<100	<100
SL5	75.8	97.2	28.8	48.1	30.8	<23	38.9	710	<100	<100	<100	<100
SL6	45.7	36.8	<14	<15	<18	<23	<24	272	<100	<100	<100	<100
SL7	72.9	67.9	15.8	28.5	<18	<23	27.6	585	<100	<100	<100	<100
SL8	<10	22.3	<14	<15	<18	<23	<24	129	<100	<100	<100	<100
SL9	33.5	34.6	<14	<15	<18	<23	<24	195	<100	<100	<100	<100

Monitor Phase 33 - Blob test results

	Isophorone	Hexachloroethane	Hexachlorocyclopentadiene	Hexachlorobutadiene	Hexachlorobenzene	n-Dioctyl phthalate	Dimethyl phthalate	Diethyl phthalate	n-Dibutyl phthalate	Dibenzofuran	Carbazole	Butylbenzyl phthalate	bis(2-Ethylhexyl) phthalate
	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Customer Sample ID	0	0	0	0	0	0	0	0	0	439	0	0	0
SL1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL11	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL12	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL13	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL14	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL15	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL16	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL17	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL18	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL19	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL2	<100	<100	<100	<100	<100	<100	<100	<100	<100	439	<100	<100	<100
SL20	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL21	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL22	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL23	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL24	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL25	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL26	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL27	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL28	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL29	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL3	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL30	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL4	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL6	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL7	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL8	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL9	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Monitor Phase 33 - Blob test results

	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	Azobenzene	4-Nitrophenol	4-Nitroaniline	4-Methylphenol	4-Chlorophenylphenylether	4-Chloroaniline	4-Chloro-3-methylphenol	4-Bromophenylphenylether	3-Nitroaniline	2-Nitrophenol	2-Nitroaniline	2-Methylphenol
	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Customer Sample ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SL1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL11	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL12	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL13	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL14	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL15	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL16	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL17	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL18	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL19	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL2	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL20	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL21	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL22	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL23	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL24	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL25	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL26	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL27	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL28	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL29	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL3	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL30	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL4	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL6	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL7	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL8	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL9	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Monitor Phase 33 - Blob test results

	1,2,4-Trichlorobenzene	2-Chlorophenol	2,6-Dinitrotoluene	2,4-Dinitrotoluene	2,4-Dimethylphenol	2,4-Dichlorophenol	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene	2-Chloronaphthalene	2-Methylnaphthalene
	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Customer Sample ID	0	0	0	0	0	0	0	0	0	0	0	0	358
SL1	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	358
SL10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL11	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL12	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	168
SL13	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL14	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL15	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	114
SL16	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL17	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL18	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL19	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL2	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL20	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	154
SL21	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL22	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL23	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL24	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL25	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL26	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	215
SL27	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL28	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL29	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL3	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL30	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL4	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL6	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL7	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL8	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL9	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Monitor Phase 33 - Blob test results

	Acenaphthylene	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Fluoranthene	Fluorene
	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Customer Sample ID											
	0	351	351	351	318	132	198	110	340	2120	747
SL1	<100	137	<100	<100	<100	<100	<100	<100	<100	229	415
SL10	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL11	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL12	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL13	<100	<100	<100	<100	<100	<100	<100	<100	<100	246	<100
SL14	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL15	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL16	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL17	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL18	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL19	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL2	<100	351	351	351	318	132	198	110	340	2120	747
SL20	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL21	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL22	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL23	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL24	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL25	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL26	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL27	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL28	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL29	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL3	<100	<100	<100	<100	<100	<100	<100	<100	<100	145	<100
SL30	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL4	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL5	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL6	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL7	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL8	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
SL9	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

Monitor Phase 33 - Blob test results

	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	Naphthalene	Dibenzo(a,h)anthracene	TIC report	Bis(2-chloroisopropyl)ether (TIC)	Anthraquinone (TIC)	Aniline (TIC)	Biphenyl(TIC)	2,6-Dichlorophenol (TIC)	2,3,4,6-Tetrachlorophenol (TIC)
	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157	TM157
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	-	-	-	-	-	-	-
	<100	<100	<100	<100	<100							
Customer Sample ID	110	2580	1540	203	0	0	0	0	0	0	0	0
SL1	<100	598	216	117	<100	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL10	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL11	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL12	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL13	<100	<100	263	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL14	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL15	<100	196	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL16	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL17	<100	209	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL18	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL19	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL2	110	2580	1540	<100	<100	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL20	<100	121	<100	<100	<100	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL21	<100	<100	<100	<100	<100	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL22	<100	144	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL23	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL24	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL25	<100	<100	<100	<100	<100	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL26	<100	145	<100	203	<100	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL27	<100	<100	<100	<100	<100	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL28	<100	<100	<100	<100	<100	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL29	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL3	<100	125	156	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL30	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL4	<100	118	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL5	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL6	<100	139	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL7	<100	158	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL8	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
SL9	<100	<100	<100	<100	<100	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Monitor Phase 33 - Blob test results

	Dibromofluoromethane**	Toluene-d8**	4-Bromofluorobenzene**	Dichlorodifluoromethane	Chloromethane	Vinyl Chloride	Bromomethane	Chloroethane	Trichlorofluoromethane	1,1-Dichloroethene	Carbon Disulphide	Dichloromethane
	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116
	%	%	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				<6	<7	<6	<10	<10	<6	<10	<7	<10
						0.93						4190
Customer Sample ID						8210						6220000
	142	102	99.1	0	0	0	0	0	0	0	0	0
SL1	115	101	91.8	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL10	115	99.5	88.4	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL11	112	96.1	92.8	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL12	122	102	95.4	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL13	129	96.1	71.2	<6	<7	<6	<10	<10	<6	<10	<7	<10
SL14	120	93.6	75.8	<120	<140	<120	<200	<200	<120	<200	<140	<200
SL15	109	92.7	71.7	<120	<140	<120	<200	<200	<120	<200	<140	<200
SL16	110	97.9	93.1	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL17	104	97.6	99.1	<1200	<1400	<1200	<2000	<2000	<1200	<2000	<1400	<2000
SL18	115	101	89.1	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL19	112	97.1	91.5	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL2	123	96.4	75.4	<6	<7	<6	<10	<10	<6	<10	<7	<10
SL20	115	102	91.2	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL21	119	96.6	71.5	<6	<7	<6	<10	<10	<6	<10	<7	<10
SL22	112	97.5	77.2	<120	<140	<120	<200	<200	<120	<200	<140	<200
SL23	106	96.5	86	<120	<140	<120	<200	<200	<120	<200	<140	<200
SL24	115	97.1	94.9	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL25	111	98.2	93.2	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL26	112	94.8	70.7	<6	<7	<6	<10	<10	<6	<10	<7	<10
SL27	116	99.8	92.2	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL28	114	100	91	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL29	104	94.8	82.3	<120	<140	<120	<200	<200	<120	<200	<140	<200
SL3	142	95.6	86.8	<60	<70	<60	<100	<100	<60	<100	<70	<100
SL30	105	98	98.9	<1200	<1400	<1200	<2000	<2000	<1200	<2000	<1400	<2000
SL4	109	94.7	81	<120	<140	<120	<200	<200	<120	<200	<140	<200
SL5	118	97.3	71.9	<6	<7	<6	<10	<10	<6	<10	<7	<10
SL6	112	101	97.5	<1200	<1400	<1200	<2000	<2000	<1200	<2000	<1400	<2000
SL7	112	96.8	72.4	<120	<140	<120	<200	<200	<120	<200	<140	<200
SL8	110	96.4	71	<120	<140	<120	<200	<200	<120	<200	<140	<200
SL9	112	99.5	87.3	<60	<70	<60	<100	<100	<60	<100	<70	<100

Monitor Phase 33 - Blob test results

	Methyl Tertiary Butyl Ether	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	2,2-Dichloropropane	Bromochloromethane	Chloroform	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbon tetra chloride	1,2-Dichloroethane	Benzene	Trichloroethene	1,2-Dichloropropane
	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<10	<10	<8	<6	<10	<10	<8	<7	<10	<10	<5	<9	<9	<10
		332		206				10800		30.9	11.1	400	188	
Customer		881000		881000						301000	6000	48000	269000	
Sample ID	0	0	0	0	0	0	0	0	0	0	0	1050	0	0
SL1	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL10	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL11	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL12	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL13	<10	<10	<8	<6	<10	<10	<8	<7	<10	<10	<5	<9	<9	<10
SL14	<200	<200	<160	<120	<200	<200	<160	<140	<200	<200	<100	<180	<180	<200
SL15	<200	<200	<160	<120	<200	<200	<160	<140	<200	<200	<100	<180	<180	<200
SL16	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	101	<90	<100
SL17	<2000	<2000	<1600	<1200	<2000	<2000	<1600	<1400	<2000	<2000	<1000	<1800	<1800	<2000
SL18	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL19	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL2	<10	<10	<8	<6	<10	<10	<8	<7	<10	<10	<5	<9	<9	<10
SL20	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL21	<10	<10	<8	<6	<10	<10	<8	<7	<10	<10	<5	<9	<9	<10
SL22	<200	<200	<160	<120	<200	<200	<160	<140	<200	<200	<100	<180	<180	<200
SL23	<200	<200	<160	<120	<200	<200	<160	<140	<200	<200	<100	<180	<180	<200
SL24	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL25	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL26	<10	<10	<8	<6	<10	<10	<8	<7	<10	<10	<5	1050	<9	<10
SL27	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL28	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL29	<200	<200	<160	<120	<200	<200	<160	<140	<200	<200	<100	<180	<180	<200
SL3	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100
SL30	<2000	<2000	<1600	<1200	<2000	<2000	<1600	<1400	<2000	<2000	<1000	<1800	<1800	<2000
SL4	<200	<200	<160	<120	<200	<200	<160	<140	<200	<200	<100	231	<180	<200
SL5	<10	<10	<8	<6	<10	<10	<8	<7	<10	<10	<5	<9	<9	<10
SL6	<2000	<2000	<1600	<1200	<2000	<2000	<1600	<1400	<2000	<2000	<1000	<1800	<1800	<2000
SL7	<200	<200	<160	<120	<200	<200	<160	<140	<200	<200	<100	<180	<180	<200
SL8	<200	<200	<160	<120	<200	<200	<160	<140	<200	<200	<100	<180	<180	<200
SL9	<100	<100	<80	<60	<100	<100	<80	<70	<100	<100	<50	<90	<90	<100

Monitor Phase 33 - Blob test results

	Dibromomethane	Bromodichloromethane	cis-1,3-Dichloropropene	Toluene	trans-1,3-Dichloropropene	1,1,2-Trichloroethane	1,3-Dichloropropane	Tetrachloroethene	Dibromochloromethane	1,2-Dibromoethane	Chlorobenzene	1,1,1,2-Tetrachloroethane
	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<9	<7	<10	<7	<10	<10	<7	<5	<10	<10	<5	<10
								2300			17900	1840
Customer Sample ID								1780000				
	0	0	0	20.1	0	0	0	0	0	0	0	0
SL1	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL10	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL11	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL12	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL13	<9	<7	<10	<7	<10	<10	<7	<5	<10	<10	<5	<10
SL14	<180	<140	<200	<140	<200	<200	<140	<100	<200	<200	<100	<200
SL15	<180	<140	<200	<140	<200	<200	<140	<100	<200	<200	<100	<200
SL16	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL17	<1800	<1400	<2000	<1400	<2000	<2000	<1400	<1000	<2000	<2000	<1000	<2000
SL18	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL19	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL2	<9	<7	<10	<7	<10	<10	<7	<5	<10	<10	<5	<10
SL20	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL21	<9	<7	<10	<7	<10	<10	<7	<5	<10	<10	<5	<10
SL22	<180	<140	<200	<140	<200	<200	<140	<100	<200	<200	<100	<200
SL23	<180	<140	<200	<140	<200	<200	<140	<100	<200	<200	<100	<200
SL24	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL25	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL26	<9	<7	<10	20.1	<10	<10	<7	<5	<10	<10	<5	<10
SL27	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL28	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL29	<180	<140	<200	<140	<200	<200	<140	<100	<200	<200	<100	<200
SL3	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100
SL30	<1800	<1400	<2000	<1400	<2000	<2000	<1400	<1000	<2000	<2000	<1000	<2000
SL4	<180	<140	<200	<140	<200	<200	<140	<100	<200	<200	<100	<200
SL5	<9	<7	<10	<7	<10	<10	<7	<5	<10	<10	<5	<10
SL6	<1800	<1400	<2000	<1400	<2000	<2000	<1400	<1000	<2000	<2000	<1000	<2000
SL7	<180	<140	<200	<140	<200	<200	<140	<100	<200	<200	<100	<200
SL8	<180	<140	<200	<140	<200	<200	<140	<100	<200	<200	<100	<200
SL9	<90	<70	<100	<70	<100	<100	<70	<50	<100	<100	<50	<100

Monitor Phase 33 - Blob test results

	Ethylbenzene	p/m-Xylene	o-Xylene	Styrene	Bromoform	Isopropylbenzene	1,1,2,2-Tetrachloroethane	1,2,3-Trichloropropane	Bromobenzene	Propylbenzene	2-Chlorotoluene	1,3,5-Trimethylbenzene	4-Chlorotoluene	tert-Butylbenzene
	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	<4	<10	<10	<10	<10	<5	<10	<16	<10	<10	<9	<8	<10	<14
							4710							
Customer Sample ID	10.6	22.5	0	0	0	284	0	0	0	249	0	0	0	0
SL1	<40	<100	<100	<100	<100	156	<100	<160	<100	217	<90	<80	<100	<140
SL10	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL11	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL12	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL13	<4	<10	<10	<10	<10	<5	<10	<16	<10	<10	<9	<8	<10	<14
SL14	<80	<200	<200	<200	<200	<100	<200	<320	<200	<200	<180	<160	<200	<280
SL15	<80	<200	<200	<200	<200	<100	<200	<320	<200	<200	<180	<160	<200	<280
SL16	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL17	<800	<2000	<2000	<2000	<2000	<1000	<2000	<3200	<2000	<2000	<1800	<1600	<2000	<2800
SL18	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL19	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL2	<4	<10	<10	<10	<10	<5	<10	<16	<10	<10	<9	<8	<10	<14
SL20	<40	<100	<100	<100	<100	284	<100	<160	<100	249	<90	<80	<100	<140
SL21	<4	<10	<10	<10	<10	<5	<10	<16	<10	<10	<9	<8	<10	<14
SL22	<80	<200	<200	<200	<200	<100	<200	<320	<200	<200	<180	<160	<200	<280
SL23	<80	<200	<200	<200	<200	<100	<200	<320	<200	<200	<180	<160	<200	<280
SL24	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL25	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL26	10.6	22.5	<10	<10	<10	148	<10	<16	<10	197	<9	<8	<10	<14
SL27	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL28	<40	<100	<100	<100	<100	147	<100	<160	<100	154	<90	<80	<100	<140
SL29	<80	<200	<200	<200	<200	<100	<200	<320	<200	<200	<180	<160	<200	<280
SL3	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140
SL30	<800	<2000	<2000	<2000	<2000	<1000	<2000	<3200	<2000	<2000	<1800	<1600	<2000	<2800
SL4	<80	<200	<200	<200	<200	<100	<200	<320	<200	<200	<180	<160	<200	<280
SL5	<4	<10	<10	<10	<10	<5	<10	<16	<10	<10	<9	<8	<10	<14
SL6	<800	<2000	<2000	<2000	<2000	<1000	<2000	<3200	<2000	<2000	<1800	<1600	<2000	<2800
SL7	<80	<200	<200	<200	<200	<100	<200	<320	<200	<200	<180	<160	<200	<280
SL8	<80	<200	<200	<200	<200	<100	<200	<320	<200	<200	<180	<160	<200	<280
SL9	<40	<100	<100	<100	<100	<50	<100	<160	<100	<100	<90	<80	<100	<140

Monitor Phase 33 - Blob test results

	1,2,4-Trimethylbenzene	sec-Butylbenzene	4-Isopropyltoluene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-chloropropane	Tert-amyl methyl ether	1,2,4-Trichlorobenzene	Hexachlorobutadiene	Naphthalene	1,2,3-Trichlorobenzene	VOC TIC
	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116	TM116
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	-
	<9	<10	<10	<8	<5	<11	<10	<14	<10	<20	<20	<13	<20	
												2800		
Customer Sample ID	0	495	0	0	0	0	0	0	0	0	0	0	0	0
SL1	<90	495	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL10	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL11	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL12	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Not Detected
SL13	<9	<10	<10	<8	<5	<11	<10	<14	<10	<20	<20	<13	<20	Detected
SL14	<180	<200	<200	<160	<100	<220	<200	<280	<200	<400	<400	<260	<400	Detected
SL15	<180	<200	<200	<160	<100	<220	<200	<280	<200	<400	<400	<260	<400	Not Detected
SL16	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL17	<1800	<2000	<2000	<1600	<1000	<2200	<2000	<2800	<2000	<4000	<4000	<2600	<4000	Not Detected
SL18	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Not Detected
SL19	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL2	<9	<10	<10	<8	<5	<11	<10	<14	<10	<20	<20	<13	<20	Detected
SL20	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL21	<9	<10	<10	<8	<5	<11	<10	<14	<10	<20	<20	<13	<20	Detected
SL22	<180	<200	<200	<160	<100	<220	<200	<280	<200	<400	<400	<260	<400	Not Detected
SL23	<180	<200	<200	<160	<100	<220	<200	<280	<200	<400	<400	<260	<400	Not Detected
SL24	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL25	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Not Detected
SL26	<9	89.1	<10	<8	<5	<11	<10	<14	<10	<20	<20	<13	<20	Detected
SL27	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL28	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL29	<180	<200	<200	<160	<100	<220	<200	<280	<200	<400	<400	<260	<400	Not Detected
SL3	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Detected
SL30	<1800	<2000	<2000	<1600	<1000	<2200	<2000	<2800	<2000	<4000	<4000	<2600	<4000	Not Detected
SL4	<180	<200	<200	<160	<100	<220	<200	<280	<200	<400	<400	<260	<400	Not Detected
SL5	<9	<10	<10	<8	<5	<11	<10	<14	<10	<20	<20	<13	<20	Not Detected
SL6	<1800	<2000	<2000	<1600	<1000	<2200	<2000	<2800	<2000	<4000	<4000	<2600	<4000	Not Detected
SL7	<180	<200	<200	<160	<100	<220	<200	<280	<200	<400	<400	<260	<400	Not Detected
SL8	<180	<200	<200	<160	<100	<220	<200	<280	<200	<400	<400	<260	<400	Not Detected
SL9	<90	<100	<100	<80	<50	<110	<100	<140	<100	<200	<200	<130	<200	Not Detected

Monitor Phase 33 - Blob test results

	Dimethylcyclohexane (isomer)	Dimethyltranscyclopentane (isomer)	Ethylcyclohexane	Ethyldimethylbenzene (isomer)	Hydrocarbon Range C10 to C23	Hydrocarbon Range C6-C20	Hydrocarbon Range C8 - C20 5% Aromatic	Methylbutane (isomer)	Methylcycloheptane	Methylcyclohexane	Methylcyclohexane,	Methyldecane (isomer)	Methylpentane (isomer)	mixed hydrocarbons	octamethylcyclotetrasiloxane	Trimethylcyclopentane
						TM157								TM116	TM116	
	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Customer Sample ID	1040	1420	2870	338	584000	146000	1220000	211	798	7860	283	982	444	92800	183	693
SL1	-	-	-	-	-	-	1220000	-	-	-	-	-	-	92800	-	-
SL10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	183	-
SL14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL2	-	-	-	-	584000	-	-	-	-	-	-	-	-	48000	-	-
SL20	1040	1420	2870	-	-	-	-	-	798	7860	-	-	-	-	-	693
SL21	-	-	-	-	-	29900	-	-	-	-	-	-	-	24100	-	-
SL22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL25	-	-	-	-	-	24700	-	-	-	-	-	-	-	-	-	-
SL26	-	-	-	-	-	146000	-	-	-	-	283	982	-	6980	-	-
SL27	-	-	-	338	-	91200	-	-	-	-	-	-	-	-	-	-
SL28	-	-	-	-	-	113000	-	-	-	556	-	-	-	-	-	-
SL29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL3	-	-	-	-	-	-	-	211	-	1900	-	-	444	-	-	-
SL30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SL9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Monitor Phase 33 - Blob test results

UCM	cyclohexane
TM157	TM116
µg/kg	mg/kg

Customer Sample ID	61400	1860
SL1	-	-
SL10	-	-
SL11	-	-
SL12	-	-
SL13	-	-
SL14	-	-
SL15	-	-
SL16	-	-
SL17	-	-
SL18	-	-
SL19	-	-
SL2	-	-
SL20	61400	1860
SL21	-	-
SL22	-	-
SL23	-	-
SL24	-	-
SL25	-	-
SL26	-	155
SL27	-	-
SL28	-	-
SL29	-	-
SL3	-	669
SL30	-	-
SL4	-	-
SL5	-	-
SL6	-	-
SL7	-	-
SL8	-	-
SL9	-	-

Appendix E. Photographs



Photograph 1 – Trial pitting in south east part of MP70



Photograph 2 – Removal of pipes as part of re profiling works



Photograph 3 – Pipe work removed during re-profiling



Photograph 4 – Break out and removal of concrete obstructions making up ‘Group B’



Photograph 5 – Continued break out and removal of concrete obstructions of ‘Group B’



Photograph 6 – V/O validation inspection of material underlying obstruction ‘Group B’