





Validated   
 Preliminary

# ALcontrol Laboratories Analytical Services

## Table Of Results

# ISO 17025 accredited  
 M MCERTS accredited  
 \* Subcontracted test  
 » Shown on prev. report

**Job Number:** 09/00970/02/01

**Matrix:** SOLID

**Client:** Cornwall County Council

**Location:** HOYLE TOWANS

**Client Ref. No.:** 63322

**Client Contact:** Roy Penhaligon

Sample Identity	2011A/1	2011A/2	2011A/3	2011A/4	2011A/5	2011A/6	2011A/7	2011A/8	2011A/9	Method Code	LoD/Units
Depth (m)	-	-	-	-	-	-	-	-	-		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	19.01.09	19.01.09	19.01.09	19.01.09	19.01.09	19.01.09	19.01.09	19.01.09	19.01.09		
Sample Received Date	23.01.09	23.01.09	23.01.09	23.01.09	23.01.09	23.01.09	23.01.09	23.01.09	23.01.09		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-2	3	4	5-6	7	8	9-10	11	12		
<b>PAH by GCMS</b>											
Naphthalene-d8 -Surrogate Recovery	100	-	-	100	-	-	100	-	-	TM218 <sup>#</sup> <sub>M</sub>	%
Acenaphthene-d10 -Surrogate Recovery	100	-	-	110	-	-	100	-	-	TM218 <sup>#</sup> <sub>M</sub>	%
Phenanthrene-d10 -Surrogate Recovery	100	-	-	100	-	-	100	-	-	TM218 <sup>#</sup> <sub>M</sub>	%
Chrysene-d12 -Surrogate Recovery	110	-	-	110	-	-	110	-	-	TM218 <sup>#</sup> <sub>M</sub>	%
Perylene-d12 -Surrogate Recovery	94	-	-	93	-	-	95	-	-	TM218 <sup>#</sup> <sub>M</sub>	%
Naphthalene	10	-	-	<9	-	-	<9	-	-	TM218 <sup>#</sup> <sub>M</sub>	<9 ug/kg
Acenaphthylene	<12	-	-	<12	-	-	<12	-	-	TM218 <sup>#</sup> <sub>M</sub>	<12 ug/kg
Acenaphthene	<8	-	-	<8	-	-	<8	-	-	TM218 <sup>#</sup> <sub>M</sub>	<8 ug/kg
Fluorene	25	-	-	20	-	-	18	-	-	TM218 <sup>#</sup> <sub>M</sub>	<10 ug/kg
Phenanthrene	48	-	-	39	-	-	39	-	-	TM218 <sup>#</sup> <sub>M</sub>	<15 ug/kg
Anthracene	<16	-	-	<16	-	-	<16	-	-	TM218 <sup>#</sup> <sub>M</sub>	<16 ug/kg
Fluoranthene	34	-	-	<17	-	-	<17	-	-	TM218 <sup>#</sup> <sub>M</sub>	<17 ug/kg
Pyrene	35	-	-	<15	-	-	<15	-	-	TM218 <sup>#</sup> <sub>M</sub>	<15 ug/kg
Benz(a)anthracene	37	-	-	29	-	-	25	-	-	TM218 <sup>#</sup> <sub>M</sub>	<14 ug/kg
Chrysene	23	-	-	13	-	-	<10	-	-	TM218 <sup>#</sup> <sub>M</sub>	<10 ug/kg
Benzo(b)fluoranthene	24	-	-	<15	-	-	<15	-	-	TM218 <sup>#</sup> <sub>M</sub>	<15 ug/kg
Benzo(k)fluoranthene	<14	-	-	<14	-	-	<14	-	-	TM218 <sup>#</sup> <sub>M</sub>	<14 ug/kg
Benzo(a)pyrene	18	-	-	<15	-	-	<15	-	-	TM218 <sup>#</sup> <sub>M</sub>	<15 ug/kg
Indeno(123cd)pyrene	<18	-	-	<18	-	-	<18	-	-	TM218 <sup>#</sup> <sub>M</sub>	<18 ug/kg
Dibenzo(ah)anthracene	<23	-	-	<23	-	-	<23	-	-	TM218 <sup>#</sup> <sub>M</sub>	<23 ug/kg
Benzo(ghi)perylene	<24	-	-	<24	-	-	<24	-	-	TM218 <sup>#</sup> <sub>M</sub>	<24 ug/kg
PAH 16 Total	250	-	-	<118	-	-	<118	-	-	TM218 <sup>#</sup> <sub>M</sub>	<118 ug/kg

All results expressed on a dry weight basis.

Date 02.02.2009





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## Table Of Results

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**Job Number:** 09/00970/02/01      **Matrix:** SOLID  
**Client:** Cornwall County Council      **Location:** HOYLE TOWANS  
**Client Ref. No.:** 63322      **Client Contact:** Roy Penhaligon

Sample Identity	2011A/10	2011A/11	2011A/12	2011A/13	2011A/14						Method Code	LoD/Units
Depth (m)	-	-	-	-	-							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	19.01.09	19.01.09	19.01.09	19.01.09	19.01.09							
Sample Received Date	23.01.09	23.01.09	23.01.09	23.01.09	23.01.09							
Batch	1	1	1	1	1							
Sample Number(s)	13	14-15	16	17	18							
<b>PAH by GCMS</b>												
Naphthalene-d8 -Surrogate Recovery	-	100	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	%
Acenaphthene-d10 -Surrogate Recovery	-	100	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	%
Phenanthrene-d10 -Surrogate Recovery	-	100	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	%
Chrysene-d12 -Surrogate Recovery	-	110	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	%
Perylene-d12 -Surrogate Recovery	-	96	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	%
Naphthalene	-	<9	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<9 ug/kg
Acenaphthylene	-	<12	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<12 ug/kg
Acenaphthene	-	<8	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<8 ug/kg
Fluorene	-	22	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<10 ug/kg
Phenanthrene	-	69	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<15 ug/kg
Anthracene	-	<16	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<16 ug/kg
Fluoranthene	-	60	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<17 ug/kg
Pyrene	-	52	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<15 ug/kg
Benz(a)anthracene	-	47	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<14 ug/kg
Chrysene	-	34	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<10 ug/kg
Benzo(b)fluoranthene	-	45	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<15 ug/kg
Benzo(k)fluoranthene	-	<14	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<14 ug/kg
Benzo(a)pyrene	-	29	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<15 ug/kg
Indeno(123cd)pyrene	-	22	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<18 ug/kg
Dibenzo(ah)anthracene	-	<23	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<23 ug/kg
Benzo(ghi)perylene	-	27	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<24 ug/kg
PAH 16 Total	-	410	-	-	-						TM218 <sup>#</sup> <sub>M</sub>	<118 ug/kg

All results expressed on a dry weight basis.

Date 02.02.2009



# ALcontrol Laboratories Analytical Services

## Table Of Results - Appendix

**Job Number:** 09/00970/02/01  
**Client:** Cornwall County Council  
**Client Ref. No.:** 63322

**Report Key :**

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10<sup>-7</sup>

NDP	No Determination Possible	*	Subcontracted test
ACM	Asbestos Containing Materia	>>	Result previously reported (Incremental reports only)
#	ISO 17025 accredited	M	MCERTS Accredited
		EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

**Summary of Method Codes contained within report :**

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample <sup>1</sup>	Surrogate Corrected
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)	✓	✓	DRY	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)			WET	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)	✓		WET	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)	✓	✓	WET	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	
TM132	In - house Method	ELTRA CS800 Operators Guide	✓	✓	DRY	
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	✓	✓	WET	
TM218		Microwave extraction - EPA method 3546	✓	✓	WET	

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

