SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

Trial Pit Number	Sample Number	Depth m	Moisture Content % Clause 3.2	Bulk Density Mg/m^3 Clause 7.2	Dry Density Mg/m^3 Clause 7.2	Particle Density Mg/m^3 Clause 8.	Liquid Limit % Clause 4.3/4.4	Plastic Limit % Clause 5.	Plasticity Index % Clause 6.	% Passing .425mm	Remarks
3		1.00	26				51	23	28	95	High plasticity CH.
12		0.70	14				32	18	14	100	Low plasticity CL.
12		2.50	14				33	19	14	100	Low plasticity CL.
22		1.40	25				51	23	28	100	High plasticity CH.
22		2.00	14				37	20	17	92	Intermediate plasticity CI.
23		0.60	15				33	18	15	100	Low plasticity CL.
23		2.70	6.9				35	20	15	86	Intermediate plasticity CI.
26		1.30	14				32	19	13	100	Low plasticity CL.
26		2.30	12				35	20	15	40	Intermediate plasticity CI.
42		0.50	16				49	21	28	100	Intermediate plasticity CI.
42		1.20	24				46	22	24	100	Intermediate plasticity CI.

SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.

PSL
Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
	20/7/06		20/7/06		20/7/06

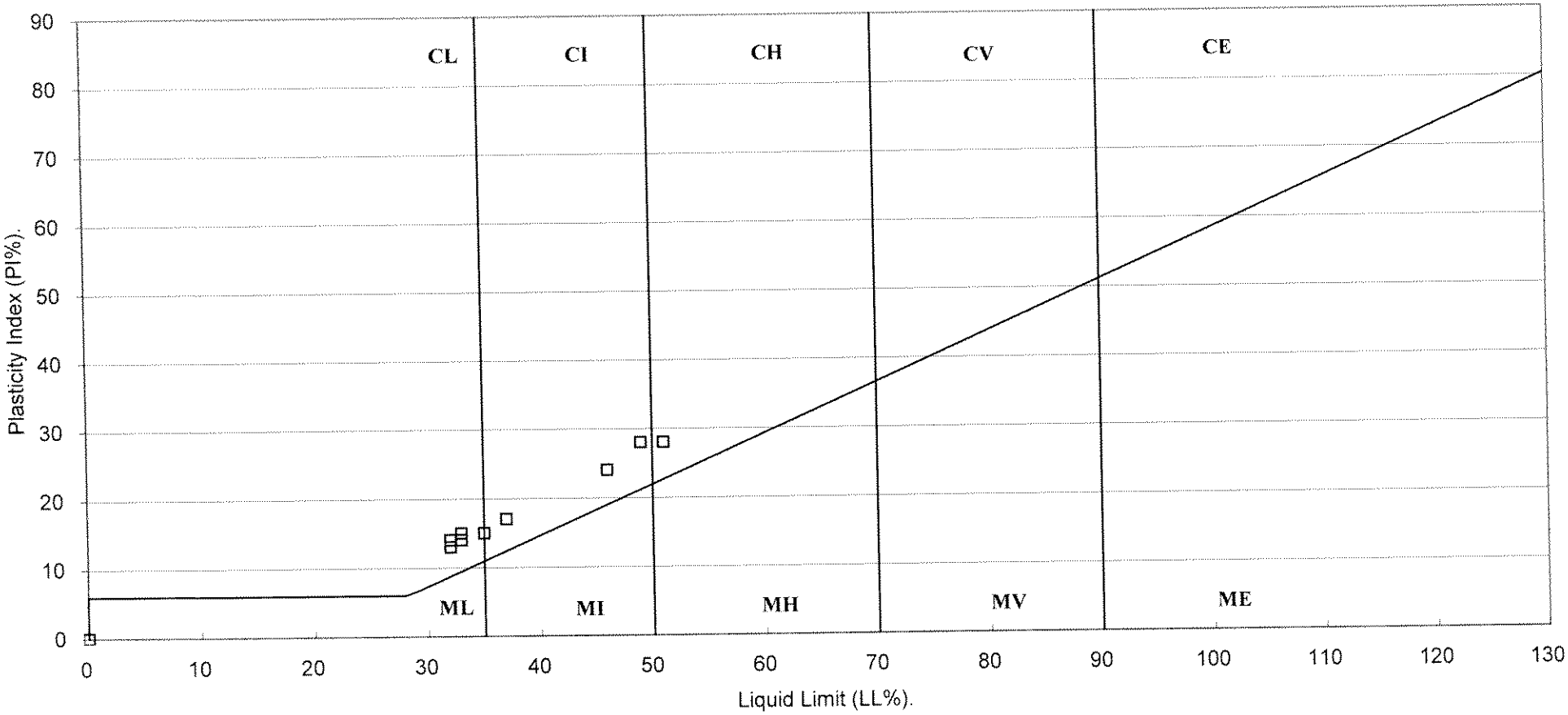
BARUGH GREEN, BARNSLEY.

Contract No: PSL06/1297

Client Ref: C1277

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



PSL Professional Soils Laboratory	Compiled by	Date	Checked by	Date	Approved by	Date
		20/7/06		20/7/06		20/7/06
	BARUGH GREEN, BARNSLEY.				Contract No:	PSL06/1297
					Client Ref:	C1277

SUMMARY OF CHEMICAL ANALYSES

(B.S. 1377 : PART 3 : 1990 AND BRE CP2/79)

Hole Number	Sample Number	Depth m	Sulphate Content SO3 (as SO_4)			Chloride Content		pH Value @ 25°C	Organic Matter Content %	Loss on Ignition %	Remarks
			Acid Soluble Sulphate as % SO_4	Aqueous Extract Sulphate as g/l SO_4	Ground-water g/l	Soluble Chloride as % equiv. NaCl	Ground-water g/l				
			Clause 5.5.	Clause 5.5.	Clause 5.4.	Clause 7.3	Clause 7.2	Clause 9.	Clause 3.	Clause 4.	
TP3		1.00		<.01 (<.01)				6.14			
TP3		2.00		<.01 (<.01)				6.30			
TP12		0.70		<.01 (<.01)				6.43			
TP12		2.50		0.02 (0.03)				6.38			
TP23		0.60		0.02 (0.02)				6.05			
TP23		2.30		<.01 (<.01)				6.11			
TP23		2.70		<.01 (<.01)				6.10			
TP26		1.30		<.01 (<.01)				5.98			
TP26		2.30		<.01 (<.01)				6.28			
TP22		1.40		<.01 (<.01)				6.44			
TP22		2.00		<.01 (<.01)				6.43			
TP42		0.50		0.02 (0.02)				6.30			
TP42		1.20		<.01 (<.01)				6.51			
TP42		3.00		<.01 (<.01)				6.22			

NCP -No Chloride present

Checked By

21/7/06
Date

Approved By

24/7/06
Date

LABORATORY TESTING SERVICES LTD

Barugh Green, Barnsley

Contract No. **GEO/2594/06**

Client Ref No. PSL06/1297

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Bynea, Llanelli, SA14 9SL

2139

Derwentside Environmental Testing Services

Certificate of Analysis

Certificate Number : 06-06152_M01

Client Reference:	C1277	**Date of issue:**	19/07/2006
Our Reference:	06-06152		
Clients Name:	Sirius Geotechnical & Environmental		
Clients Address:	Suite 3 Bowcliffe Grange Bowcliffe Hall Estate Bramham LS23 6LP		



Contract Title:	Barough Green
Description:	11 leachate samples, 23 soil samples
Date Received:	12/07/2006
Date Commenced:	12/07/2006
Date Completed:	19/07/2006

Notes:

Test procedures are identified by prefix DETSn (details available upon request)
Observations and Interpretations are outside the UKAS Accreditation
* Denotes test not included in laboratory scope of accreditation
$ Denotes test carried out by approved subcontractor
I/S Denotes insufficient sample to carry out test
N/S Denotes that the sample is not suitable for testing
Samples will be disposed of 1 month after the date of issue of this test

Approved By:

R Bennett	R Brown	M Hopgood
Director	Business Manager	Technical Manager

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. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Derwentside Environmental Testing Services Limited.
Unit 2a/2b, Park Road Industrial Estate South, Consett, Co Durham. DH8 5PY
Tel: 01207 582333 • Fax: 01207 582444 • Email: info@dets.co.uk • www.dets.co.uk
Registered in England No. 370 5645 • VAT No. 708 978 678

Sample Details

Sample ID	Number	Dets Ref	Matrix Description	Date Sampled	Time Sampled	Preservation	Analysis Complete
TP8		40714	Stiff brown gravelly sandy CLAY (with frequent	Not Provided	Not Provided	None	19/07/2006
TP13		40715	Soft brown gravelly sandy CLAY (with odd rootlets)	Not Provided	Not Provided	None	19/07/2006
TP16		40716	Soft brown sandy CLAY (with frequent rootlets)	Not Provided	Not Provided	None	19/07/2006
TP32		40717	Stiff brown gravelly CLAY (with odd rootlets)	Not Provided	Not Provided	None	19/07/2006
TP40		40718	Soft brown sandy CLAY (with odd rootlets and	Not Provided	Not Provided	None	19/07/2006
TP42		40719	Stiff brown gravelly sandy CLAY	Not Provided	Not Provided	None	19/07/2006
TP31		40720	Stiff brown sandy gravelly CLAY (with frequent	Not Provided	Not Provided	None	19/07/2006
TP27		40721	Very stiff brown sandy CLAY (with odd rootlets)	Not Provided	Not Provided	None	19/07/2006
TP43		40722	Very stiff brown sandy CLAY (with odd rootlets)	Not Provided	Not Provided	None	19/07/2006
TP47		40723	Soft brown sandy CLAY (with frequent rootlets)	Not Provided	Not Provided	None	19/07/2006
TP1		40724	Very stiff brown sandy GRAVEL	Not Provided	Not Provided	None	19/07/2006
TP8		40725	Stiff brown gravelly sandy CLAY	Not Provided	Not Provided	None	19/07/2006
TP43		40726	Loose brown sandy GRAVEL	Not Provided	Not Provided	None	19/07/2006
TP46		40727	Stiff brown gravelly sandy CLAY	Not Provided	Not Provided	None	19/07/2006
TP45		40728	Soft brown gravelly sandy CLAY	Not Provided	Not Provided	None	19/07/2006
TP43		40729	Stiff brown sandy GRAVEL	Not Provided	Not Provided	None	19/07/2006
TP2		40730	Loose brown sandy GRAVEL	Not Provided	Not Provided	None	19/07/2006
TP15		40731	Soft brown sandy CLAY	Not Provided	Not Provided	None	19/07/2006
TP15		40732	Soft brown gravelly sandy CLAY	Not Provided	Not Provided	None	19/07/2006

Sample Details

Sample ID	Number	Dets Ref	Matrix Description	Date Sampled	Time Sampled	Preservation	Analysis Complete
TP18		40733	Soft brown sandy CLAY	Not Provided	Not Provided	None	19/07/2006
TP35		40734	Loose brown sandy GRAVEL	Not Provided	Not Provided	None	19/07/2006
TP35		40735	Loose brown sandy GRAVEL	Not Provided	Not Provided	None	19/07/2006
TP38		40736	Very stiff brown sandy CLAY	Not Provided	Not Provided	None	19/07/2006
TP16		40737		Not Provided	Not Provided	None	18/07/2006
TP40		40738		Not Provided	Not Provided	None	18/07/2006
TP31		40739		Not Provided	Not Provided	None	18/07/2006
TP47		40740		Not Provided	Not Provided	None	18/07/2006
TP1		40741		Not Provided	Not Provided	None	18/07/2006
TP43		40742		Not Provided	Not Provided	None	18/07/2006
TP45		40743		Not Provided	Not Provided	None	18/07/2006
TP2		40744		Not Provided	Not Provided	None	18/07/2006
TP15		40745		Not Provided	Not Provided	None	18/07/2006
TP35		40746		Not Provided	Not Provided	None	18/07/2006
TP35		40747		Not Provided	Not Provided	None	18/07/2006

Client Reference C1277

Laboratory Reference 06-06152

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole	TP8	TP13	TP16	TP32	TP40	TP42	TP31	TP27	TP43	TP47
			Depth	0.20	0.20	0.10	0.20	0.10	0.10	0.20	0.10	0.10	0.20
			Sample No										
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Lab Ref No	40714	40715	40716	40717	40718	40719	40720	40721	40722	40723
Arsenic	DETS 042	mg/kg		16	15	13	19	19	18	15	17	19	19
Cadmium	DETS 042	mg/kg		1.3	0.8	1.3	1.2	1.2	1.1	1.1	1.1	1.2	1.0
Chromium	DETS 042	mg/kg		60	40	48	48	54	40	35	30	38	39
Copper	DETS 042	mg/kg		35	37	25	41	42	40	25	34	43	43
Lead	DETS 042	mg/kg		43	39	32	44	47	42	39	45	46	47
Mercury	DETS 015	mg/kg		1.1	0.7	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel	DETS 042	mg/kg		9	4	7	6	7	6	7	4	7	6
Selenium	DETS 042	mg/kg		1.5	1.7	1.4	1.5	1.6	1.8	1.8	1.4	1.8	1.6
Zinc	DETS 042	mg/kg		110	80	92	100	100	100	100	82	120	99
Total Sulphate as SO4	DETS 075	%		0.06	0.06	0.06	0.08	0.08	0.07	0.14	0.07	0.06	0.08
Sulphate Aqueous Extract	DETS 076	g/l as SO4		0.05	0.03	0.03	0.05	0.05	0.04	0.05	0.04	0.03	0.04
Total Organic Carbon	DETS 002	%		3.3	3.3	2.6	4.1	4.1	3.4	4.4	3.1	3.5	3.6
pH	DETS 008			7.1	7.0	6.7	6.8	6.8	6.8	6.8	6.9	6.9	6.7
Acenaphthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenapthylene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole Depth Sample No Sample Type Lab Ref No	TP8 0.20 SOIL 40714	TP13 0.20 SOIL 40715	TP16 0.10 SOIL 40716	TP32 0.20 SOIL 40717	TP40 0.10 SOIL 40718	TP42 0.10 SOIL 40719	TP31 0.20 SOIL 40720	TP27 0.10 SOIL 40721	TP43 0.10 SOIL 40722	TP47 0.20 SOIL 40723
Benzo(g,h,i)perylene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Naphthalene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol - Monohydric	DETS 067	mg/kg		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	DETS 010	ug/l		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Cadmium	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury	DETS 078*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nickel	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Selenium	DETS 012	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Client Reference C1277

Laboratory Reference 06-06152

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole	TP8	TP13	TP16	TP32	TP40	TP42	TP31	TP27	TP43	TP47
			Depth	0.20	0.20	0.10	0.20	0.10	0.10	0.20	0.10	0.10	0.20
			Sample No										
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Lab Ref No	40714	40715	40716	40717	40718	40719	40720	40721	40722	40723
pH	DETS 008			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenapthylene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(g,h,i)perylene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dibenzo(a,h)anthracene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluorene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(1,2,3-c,d)pyrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Phenanthrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pyrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PAH	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Phenol HPLC	DETS 054*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Client Reference C1277

Laboratory Reference 06-06152

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole	TP1	TP8	TP43	TP46	TP45	TP43	TP2	TP15	TP15	TP18
			Depth	1.30	1.00	0.50	1.00	0.70	2.30	1.00	0.70	1.60	0.70
			Sample No										
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Lab Ref No	40724	40725	40726	40727	40728	40729	40730	40731	40732	40733
Arsenic	DETS 042	mg/kg		9	13	78	6	10	23	8	9	5	9
Cadmium	DETS 042	mg/kg		0.5	1.9	1.0	0.8	1.9	0.6	0.5	0.8	0.7	0.8
Chromium	DETS 042	mg/kg		18	23	4	12	17	11	11	27	15	20
Copper	DETS 042	mg/kg		19	27	40	18	18	20	16	14	23	23
Lead	DETS 042	mg/kg		9	25	38	12	14	15	7	14	17	10
Mercury	DETS 015	mg/kg		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel	DETS 042	mg/kg		13	20	12	10	19	17	8	3	17	23
Selenium	DETS 042	mg/kg		1.3	0.5	3.1	1.3	0.6	1.1	1.4	1.4	0.5	0.6
Zinc	DETS 042	mg/kg		61	110	95	68	91	90	57	62	89	100
Total Sulphate as SO4	DETS 075	%		< 0.01	0.03	3.7	0.04	0.02	< 0.01	0.02	0.02	0.02	0.01
Sulphate Aqueous Extract	DETS 076	g/l as SO4		0.04	0.06	1.8	0.15	0.06	0.03	0.05	0.03	0.04	0.02
Total Organic Carbon	DETS 002	%		0.4	1.4	11	0.4	0.2	0.6	0.2	0.5	0.3	0.4
pH	DETS 008			7.1	6.6	7.4	6.7	7.1	6.5	6.1	7.3	6.0	6.4
Acenaphthene	DETS 050	mg/kg		< 0.1	< 0.1	1.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenapthylene	DETS 050	mg/kg		< 0.1	< 0.1	1.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Client Reference C1277

Laboratory Reference 06-06152

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole Depth Sample No Sample Type Lab Ref No	TP1 1.30 SOIL 40724	TP8 1.00 SOIL 40725	TP43 0.50 SOIL 40726	TP46 1.00 SOIL 40727	TP45 0.70 SOIL 40728	TP43 2.30 SOIL 40729	TP2 1.00 SOIL 40730	TP15 0.70 SOIL 40731	TP15 1.60 SOIL 40732	TP18 0.70 SOIL 40733
Benzo(g,h,i)perylene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	DETS 050	mg/kg		< 0.1	< 0.1	1.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-c,d)pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Naphthalene	DETS 050	mg/kg		< 0.1	< 0.1	1.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	DETS 050	mg/kg		< 0.1	< 0.1	1.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PAH	DETS 050	mg/kg		< 5.0	< 5.0	6.8	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Phenol - Monohydric	DETS 067	mg/kg		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Arsenic	DETS 010	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cadmium	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chromium	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury	DETS 078*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nickel	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Selenium	DETS 012	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Zinc	DETS 042	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole Depth Sample No Sample Type Lab Ref No	TP1 1.30 SOIL 40724	TP8 1.00 SOIL 40725	TP43 0.50 SOIL 40726	TP46 1.00 SOIL 40727	TP45 0.70 SOIL 40728	TP43 2.30 SOIL 40729	TP2 1.00 SOIL 40730	TP15 0.70 SOIL 40731	TP15 1.60 SOIL 40732	TP18 0.70 SOIL 40733
pH	DETS 008			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenaphthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Acenapthylene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Anthracene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Benzo(g,h,i)perylene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Chrysene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Dibenzo(a,h)anthracene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fluorene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Indeno(1,2,3-c,d)pyrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Naphthalene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Phenanthrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pyrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PAH	DETS 050*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Phenol HPLC	DETS 054*	ug/l		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Client Reference C1277

Laboratory Reference 06-06152

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole Depth Sample No Sample Type Lab Ref No	TP35 0.40 SOIL 40734	TP35 2.00 SOIL 40735	TP38 1.10 SOIL 40736	TP16 0.10 LEACHATE	TP40 0.10 LEACHATE	TP31 0.20 LEACHATE	TP47 0.20 LEACHATE	TP1 1.30 LEACHATE	TP43 0.50 LEACHATE	TP45 0.70 LEACHATE
Arsenic	DETS 042	mg/kg		9	10	10	-----	-----	-----	-----	-----	-----	-----
Cadmium	DETS 042	mg/kg		0.8	0.9	0.6	-----	-----	-----	-----	-----	-----	-----
Chromium	DETS 042	mg/kg		18	16	22	-----	-----	-----	-----	-----	-----	-----
Copper	DETS 042	mg/kg		14	24	21	-----	-----	-----	-----	-----	-----	-----
Lead	DETS 042	mg/kg		15	14	13	-----	-----	-----	-----	-----	-----	-----
Mercury	DETS 015	mg/kg		< 0.3	< 0.3	< 0.3	-----	-----	-----	-----	-----	-----	-----
Nickel	DETS 042	mg/kg		12	23	19	-----	-----	-----	-----	-----	-----	-----
Selenium	DETS 042	mg/kg		0.9	0.3	0.6	-----	-----	-----	-----	-----	-----	-----
Zinc	DETS 042	mg/kg		54	100	86	-----	-----	-----	-----	-----	-----	-----
Total Sulphate as SO4	DETS 075	%		0.02	0.01	0.01	-----	-----	-----	-----	-----	-----	-----
Sulphate Aqueous Extract	DETS 076	g/l as SO4		0.06	0.02	0.02	-----	-----	-----	-----	-----	-----	-----
Total Organic Carbon	DETS 002	%		0.3	0.4	0.6	-----	-----	-----	-----	-----	-----	-----
pH	DETS 008			7.2	5.8	6.4	-----	-----	-----	-----	-----	-----	-----
Acenaphthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Acenapthylene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Benzo(a)anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Benzo(a)pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Benzo(b)fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Benzo(k)fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----

Client Reference C1277

Laboratory Reference 06-06152

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole Depth Sample No Sample Type Lab Ref No	TP35 0.40 SOIL 40734	TP35 2.00 SOIL 40735	TP38 1.10 SOIL 40736	TP16 0.10 LEACHATE	TP40 0.10 LEACHATE	TP31 0.20 LEACHATE	TP47 0.20 LEACHATE	TP1 1.30 LEACHATE	TP43 0.50 LEACHATE	TP45 0.70 LEACHATE
Benzo(g,h,i)perylene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Chrysene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Dibenzo(a,h)anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Fluorene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Indeno(1,2,3-c,d)pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Naphthalene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Phenanthrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
PAH	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	-----	-----	-----	-----	-----	-----	-----
Phenol - Monohydric	DETS 067	mg/kg		< 5.0	< 5.0	< 5.0	-----	-----	-----	-----	-----	-----	-----
Arsenic	DETS 010	ug/l		< 0.3	< 0.3	< 0.3	-----	-----	-----	-----	-----	-----	-----
Cadmium	DETS 042	ug/l		-----	-----	-----	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chromium	DETS 042	ug/l		-----	-----	-----	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Copper	DETS 042	ug/l		-----	-----	-----	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Lead	DETS 042	ug/l		-----	-----	-----	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Mercury	DETS 078*	ug/l		-----	-----	-----	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Nickel	DETS 042	ug/l		-----	-----	-----	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Selenium	DETS 012	ug/l		-----	-----	-----	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Zinc	DETS 042	ug/l		-----	-----	-----	< 3	< 3	< 3	< 3	< 3	< 3	< 3
				-----	-----	-----	130	220	200	220	180	120	160

Client Reference C1277

Laboratory Reference 06-06152

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole	TP35	TP35	TP38	TP16	TP40	TP31	TP47	TP1	TP43	TP45
			Depth	0.40	2.00	1.10	0.10	0.10	0.20	0.20	1.30	0.50	0.70
			Sample No										
			Sample Type	SOIL	SOIL	SOIL	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE	LEACHATE
			Lab Ref No	40734	40735	40736							
pH	DETS 008			-----	-----	-----	6.2	6.4	6.3	6.4	6.5	6.4	6.5
Acenaphthene	DETS 050*	ug/l		-----	-----	-----	0.02	< 0.01	< 0.01	< 0.01	0.01	< 0.01	< 0.01
Acenapthylene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	DETS 050*	ug/l		-----	-----	-----	0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETS 050*	ug/l		-----	-----	-----	0.03	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01
Naphthalene	DETS 050*	ug/l		-----	-----	-----	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	DETS 050*	ug/l		-----	-----	-----	0.01	< 0.01	0.02	0.01	0.05	0.01	< 0.01
Pyrene	DETS 050*	ug/l		-----	-----	-----	0.04	0.02	0.02	0.02	0.03	0.02	0.02
PAH	DETS 050*	ug/l		-----	-----	-----	0.04	0.03	0.01	0.04	0.03	0.03	0.03
Phenol HPLC	DETS 054*	ug/l		-----	-----	-----	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
				-----	-----	-----	< 0.50	< 0.50	0.54	< 0.50	0.50	0.91	< 0.50

Client Reference C1277

Laboratory Reference 06-06152

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole	TP2	TP15	TP35	TP35
			Depth	1.00	0.70	0.40	2.00
			Sample No				
			Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE
			Lab Ref No				
Arsenic	DETS 042	mg/kg		-----	-----	-----	-----
Cadmium	DETS 042	mg/kg		-----	-----	-----	-----
Chromium	DETS 042	mg/kg		-----	-----	-----	-----
Copper	DETS 042	mg/kg		-----	-----	-----	-----
Lead	DETS 042	mg/kg		-----	-----	-----	-----
Mercury	DETS 015	mg/kg		-----	-----	-----	-----
Nickel	DETS 042	mg/kg		-----	-----	-----	-----
Selenium	DETS 042	mg/kg		-----	-----	-----	-----
Zinc	DETS 042	mg/kg		-----	-----	-----	-----
Total Sulphate as SO4	DETS 075	%		-----	-----	-----	-----
Sulphate Aqueous Extract	DETS 076	g/l as		-----	-----	-----	-----
Total Organic Carbon	DETS 002	%		-----	-----	-----	-----
pH	DETS 008			-----	-----	-----	-----
Acenaphthene	DETS 050	mg/kg		-----	-----	-----	-----
Acenapthylene	DETS 050	mg/kg		-----	-----	-----	-----
Anthracene	DETS 050	mg/kg		-----	-----	-----	-----
Benzo(a)anthracene	DETS 050	mg/kg		-----	-----	-----	-----
Benzo(a)pyrene	DETS 050	mg/kg		-----	-----	-----	-----
Benzo(b)fluoranthene	DETS 050	mg/kg		-----	-----	-----	-----
Benzo(k)fluoranthene	DETS 050	mg/kg		-----	-----	-----	-----

Client Reference C1277

Laboratory Reference 06-06152

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole	TP2	TP15	TP35	TP35
			Depth	1.00	0.70	0.40	2.00
			Sample No				
			Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE
			Lab Ref No				
Benzo(g,h,i)perylene	DETS 050	mg/kg		-----	-----	-----	-----
Chrysene	DETS 050	mg/kg		-----	-----	-----	-----
Dibenzo(a,h)anthracene	DETS 050	mg/kg		-----	-----	-----	-----
Fluoranthene	DETS 050	mg/kg		-----	-----	-----	-----
Fluorene	DETS 050	mg/kg		-----	-----	-----	-----
Indeno(1,2,3-c,d)pyrene	DETS 050	mg/kg		-----	-----	-----	-----
Naphthalene	DETS 050	mg/kg		-----	-----	-----	-----
Phenanthrene	DETS 050	mg/kg		-----	-----	-----	-----
Pyrene	DETS 050	mg/kg		-----	-----	-----	-----
PAH	DETS 050	mg/kg		-----	-----	-----	-----
Phenol - Monohydric	DETS 067	mg/kg		-----	-----	-----	-----
Arsenic	DETS 010	ug/l		< 1	< 1	< 1	< 1
Cadmium	DETS 042	ug/l		< 2	< 2	< 2	< 2
Chromium	DETS 042	ug/l		< 10	< 10	< 10	< 10
Copper	DETS 042	ug/l		< 2	< 2	< 2	< 2
Lead	DETS 042	ug/l		< 5	< 5	< 5	< 5
Mercury	DETS 078*	ug/l		< 0.2	< 0.2	< 0.2	< 0.2
Nickel	DETS 042	ug/l		< 10	< 10	< 10	< 10
Selenium	DETS 012	ug/l		< 3	< 3	< 3	< 3
Zinc	DETS 042	ug/l		270	210	290	360

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole Depth Sample No Sample Type Lab Ref No	TP2 1.00 LEACHATE	TP15 0.70 LEACHATE	TP35 0.40 LEACHATE	TP35 2.00 LEACHATE
pH	DETS 008			5.1	6.6	6.3	6.1
Acenaphthene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Acenapthylene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETS 050*	ug/l		< 0.01	0.01	< 0.01	< 0.01
Naphthalene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	DETS 050*	ug/l		< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	DETS 050*	ug/l		0.02	0.03	0.02	0.02
PAH	DETS 050*	ug/l		0.01	0.03	< 0.01	< 0.01
Phenol HPLC	DETS 054*	ug/l		< 0.20	< 0.20	< 0.20	< 0.20
				< 0.50	< 0.50	0.58	< 0.50

Appendix A - Details of Analysis

Method	Name of Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 003	Loss On Ignition	%	0.01	Air Dried	No	Yes	No
DETS 004	Sulphate	%	0.01	Air Dried	No	Yes	Yes
DETS 006	Chloride	mg/kg	0.01	Air Dried	No	Yes	No
DETS 008	pH	pH Units	0.10	Air Dried	No	Yes	Yes
DETS 017	Selenium	mg/kg	0.30	Air Dried	No	Yes	No
DETS 019	Ammonia	mg/kg	0.02	Air Dried	No	Yes	No
DETS 020	Boron (water soluble)	mg/kg	0.20	Air Dried	No	Yes	Yes
DETS 024	Sulphide	mg/kg	10.00	Air Dried	No	Yes	Yes
DETS 042	Antimony	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Arsenic	mg/kg	1.00	Air Dried	No	Yes	Yes
DETS 042	Barium	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Beryllium	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Cadmium	mg/kg	0.20	Air Dried	No	Yes	No
DETS 042	Cobalt	mg/kg	0.20	Air Dried	No	No	No
DETS 042	Copper	mg/kg	1.00	Air Dried	No	Yes	No
DETS 042	Chromium	mg/kg	1.00	Air Dried	No	Yes	No

Methods details are shown only for those determinants listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS

Full method statements are available on request.

Appendix A - Details of Analysis

Method	Name of Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 042	Iron	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Lead	mg/kg	1.00	Air Dried	No	Yes	No
DETS 042	Manganese	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Mercury	mg/kg	0.30	Air Dried	No	Yes	No
DETS 042	Molybdenum	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Nickel	mg/kg	1.00	Air Dried	No	Yes	No
DETS 042	Thallium	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Vanadium	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Zinc	mg/kg	1.00	Air Dried	No	Yes	Yes
DETS 049	Sulphur (free)	mg/kg	0.50	As Recieved	No	Yes	Yes
DETS 050	PAH's	mg/kg	0.10	As Recieved	No	Yes	No
DETS 051	TPH's	mg/kg	20.00	As Recieved	No	Yes	Yes
DETS 052	PCB's	mg/kg	0.01	As Recieved	No	Yes	Yes
DETS 062	Benzene	mg/kg	0.01	As Recieved	No	Yes	Yes
DETS 062	Toluene	mg/kg	0.01	As Recieved	No	Yes	Yes
DETS 062	Ethylbenzene	mg/kg	0.01	As Recieved	No	Yes	Yes

Methods details are shown only for those determinants listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS

Full method statements are available on request.

Appendix A - Details of Analysis

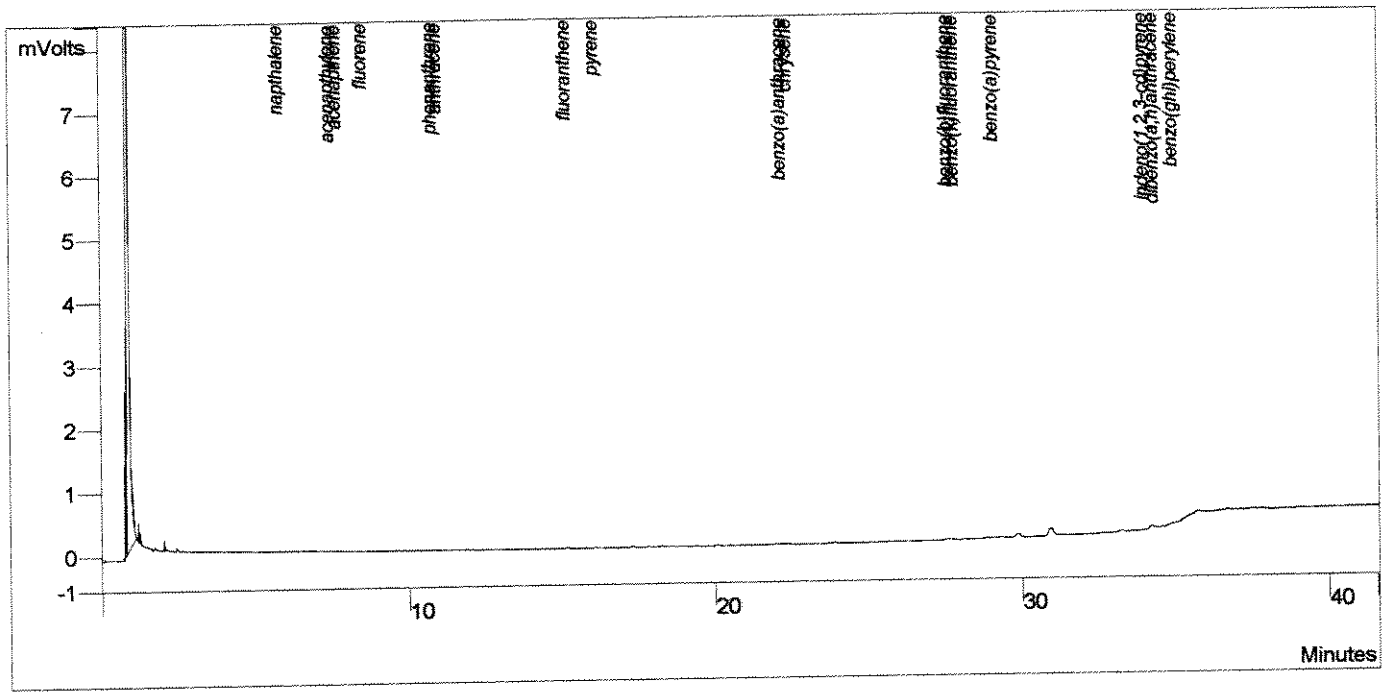
Method	Name of Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 062	Xylene	mg/kg	0.01	As Recieved	No	Yes	Yes
DETS 067	Phenol - Monohydric	mg/kg	0.30	Air Dried	No	Yes	Yes
DETS 067	Easily Liberatable Cyanide	mg/kg	0.10	Air Dried	No	Yes	Yes
DETS 067	Complex Cyanide	mg/kg	0.20	Air Dried	No	Yes	Yes
DETS 067	Total Cyanide	mg/kg	0.20	Air Dried	No	Yes	Yes
DETS 067	Thiocyanate	mg/kg	0.60	Air Dried	No	Yes	Yes
DETS 068	VOC's	mg/kg	0.01	As Recieved	No	No	No

Methods details are shown only for those determinants listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS

Full method statements are available on request.

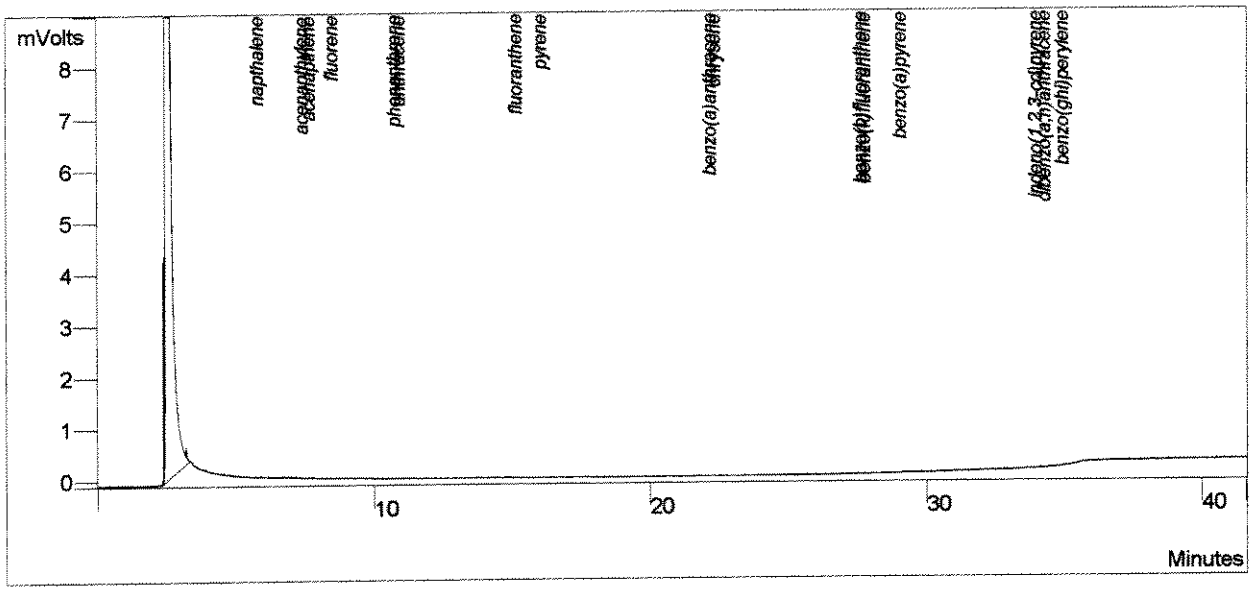
DETS 050 - PAH by GC-FID

Sample ID: **6152-40714**



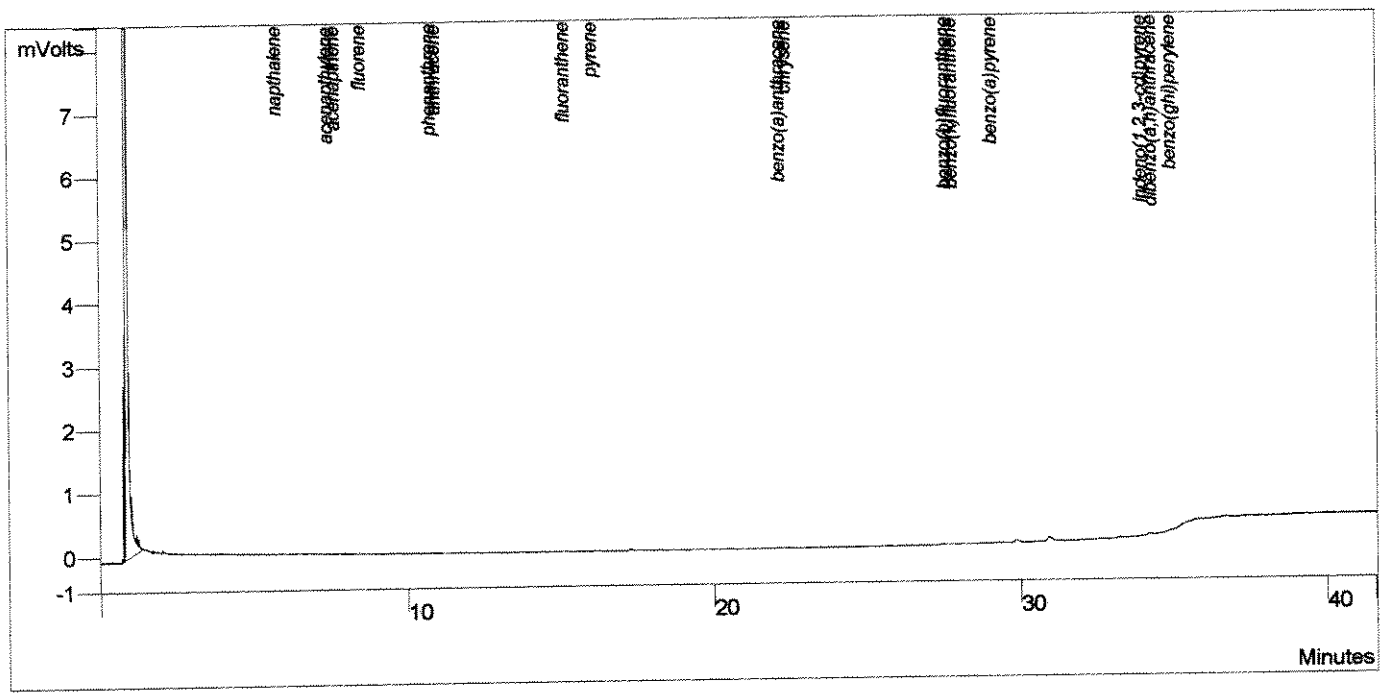
DETS 050 - PAH by GC-FID

Sample ID: **6152-40715**



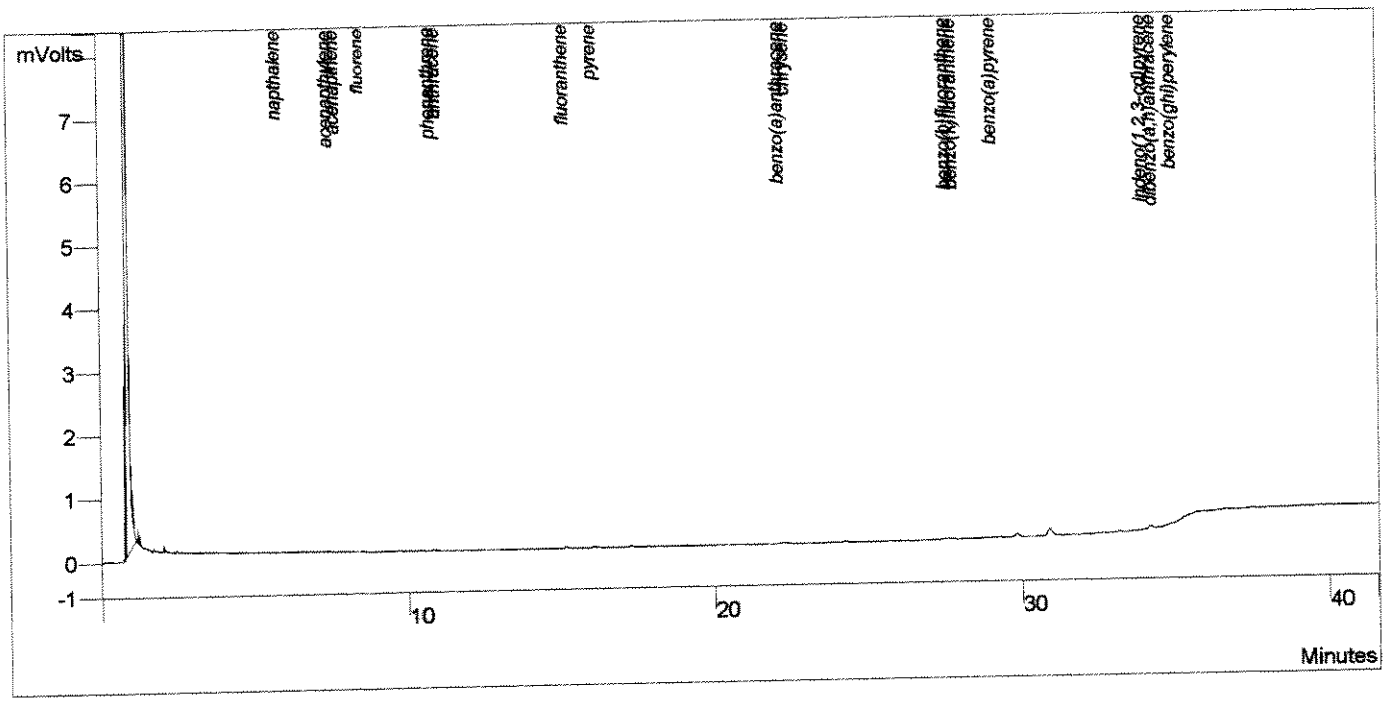
DETS 050 - PAH by GC-FID

Sample ID: **6152-40716**



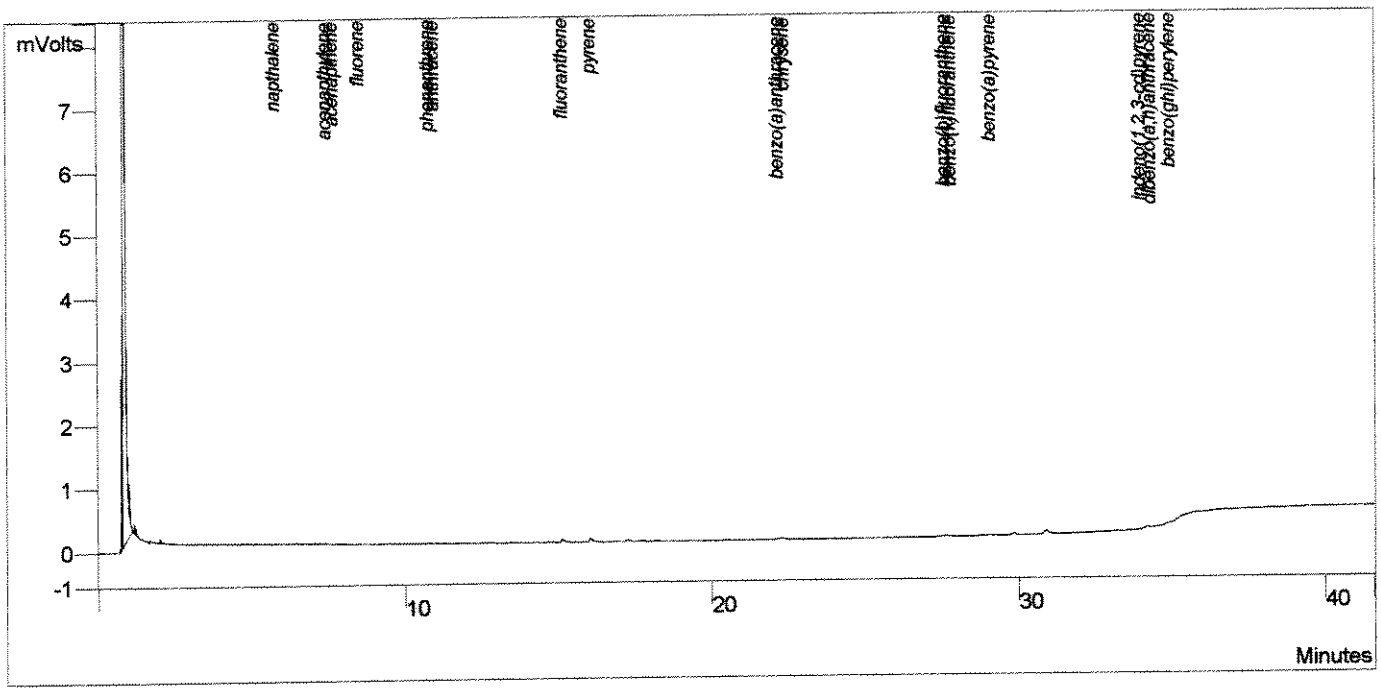
DETS 050 - PAH by GC-FID

Sample ID: **6152-40717**



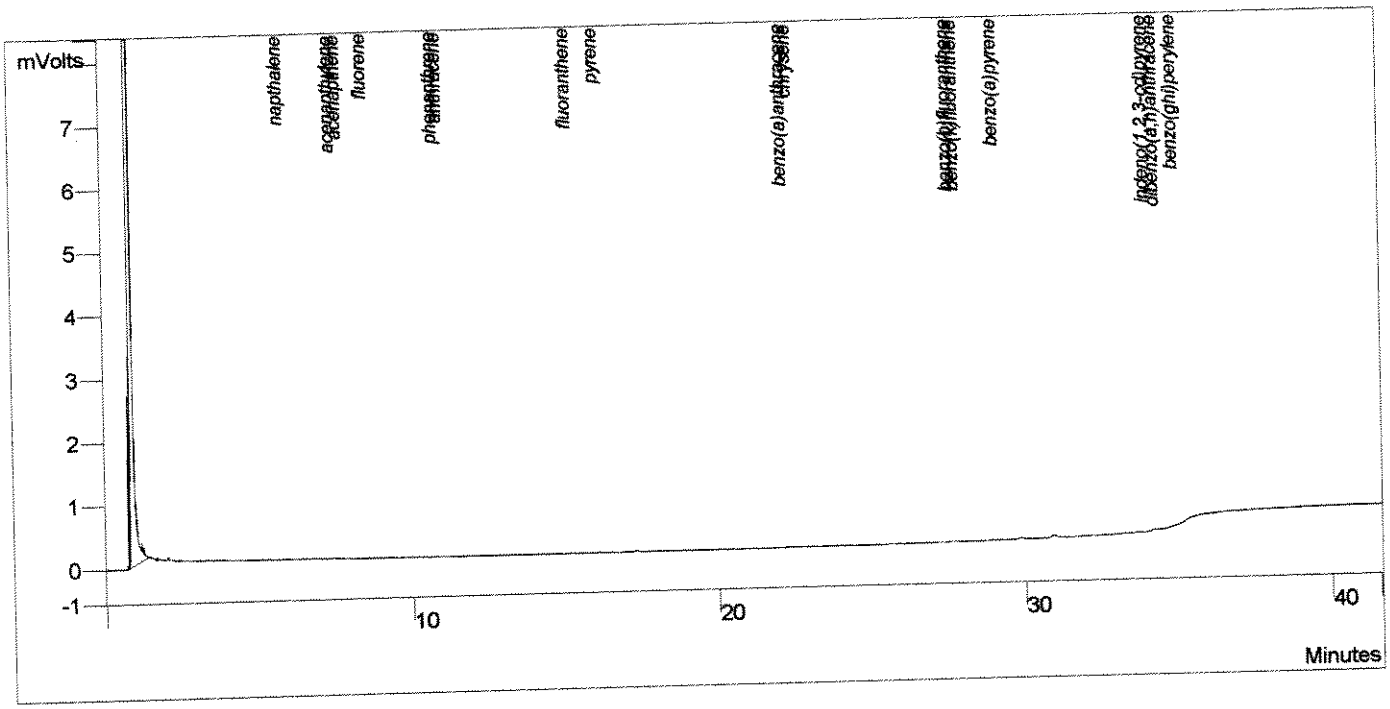
DETS 050 - PAH by GC-FID

Sample ID: **6152-40718**



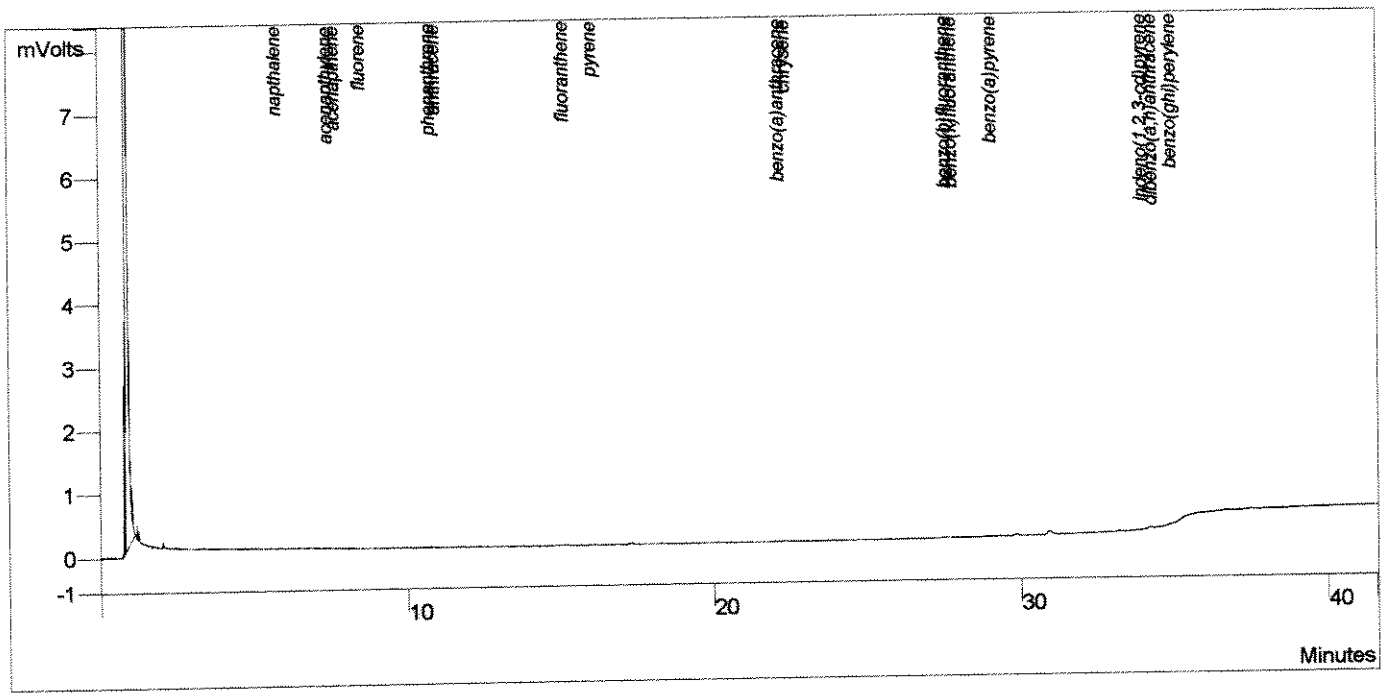
DETS 050 - PAH by GC-FID

Sample ID: **6152-40719**



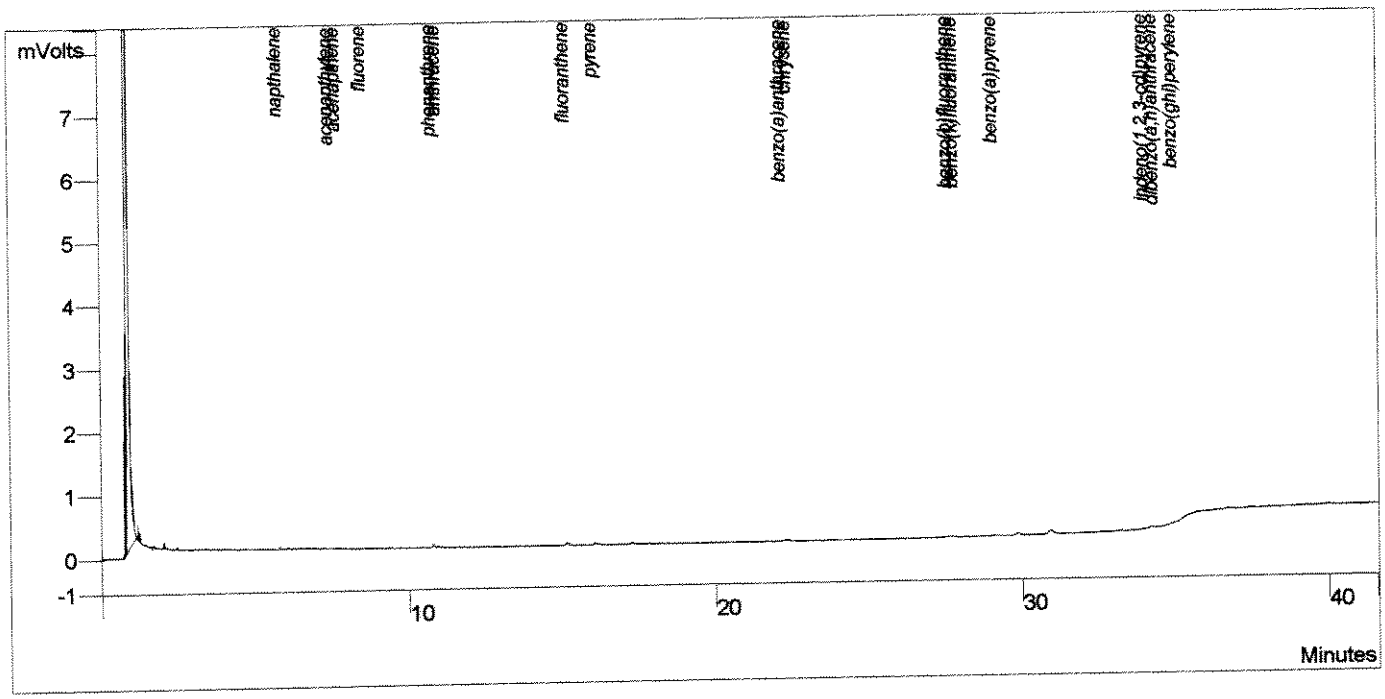
DETS 050 - PAH by GC-FID

Sample ID: **6152-40720**



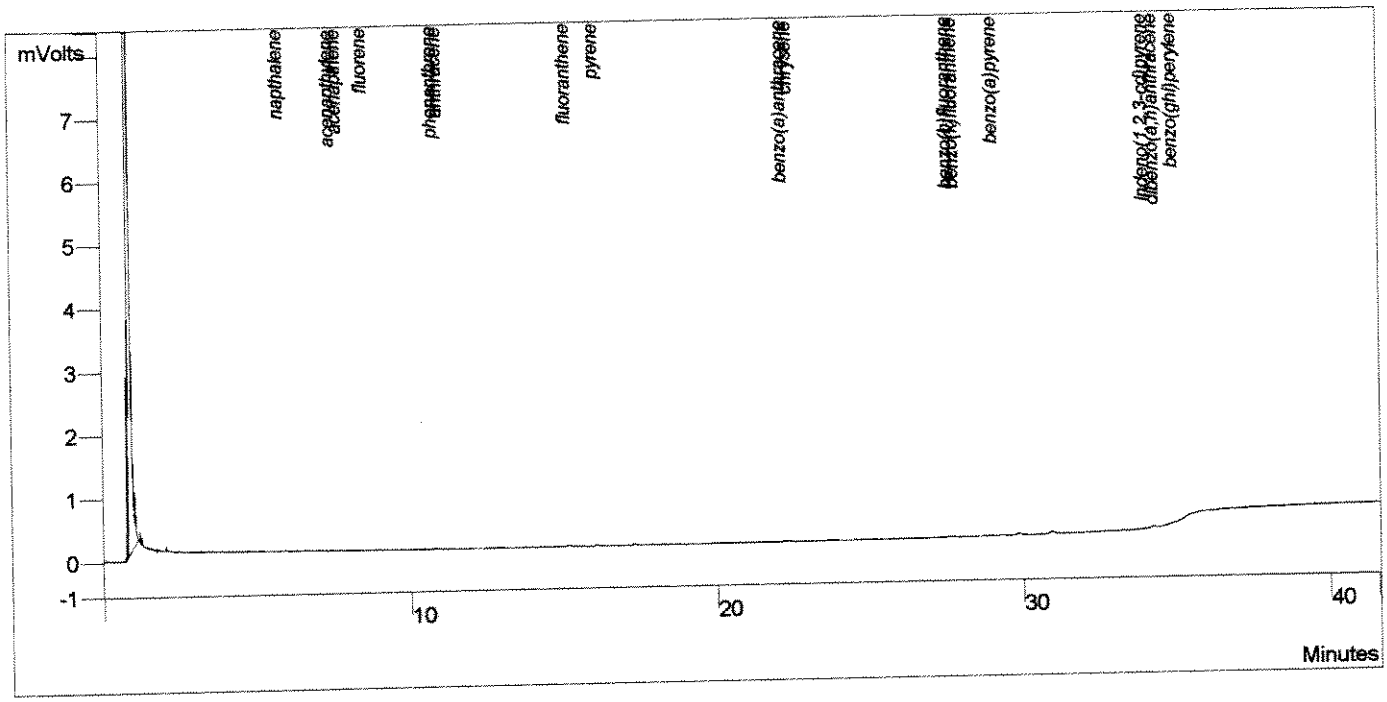
DETS 050 - PAH by GC-FID

Sample ID: **6152-40721**



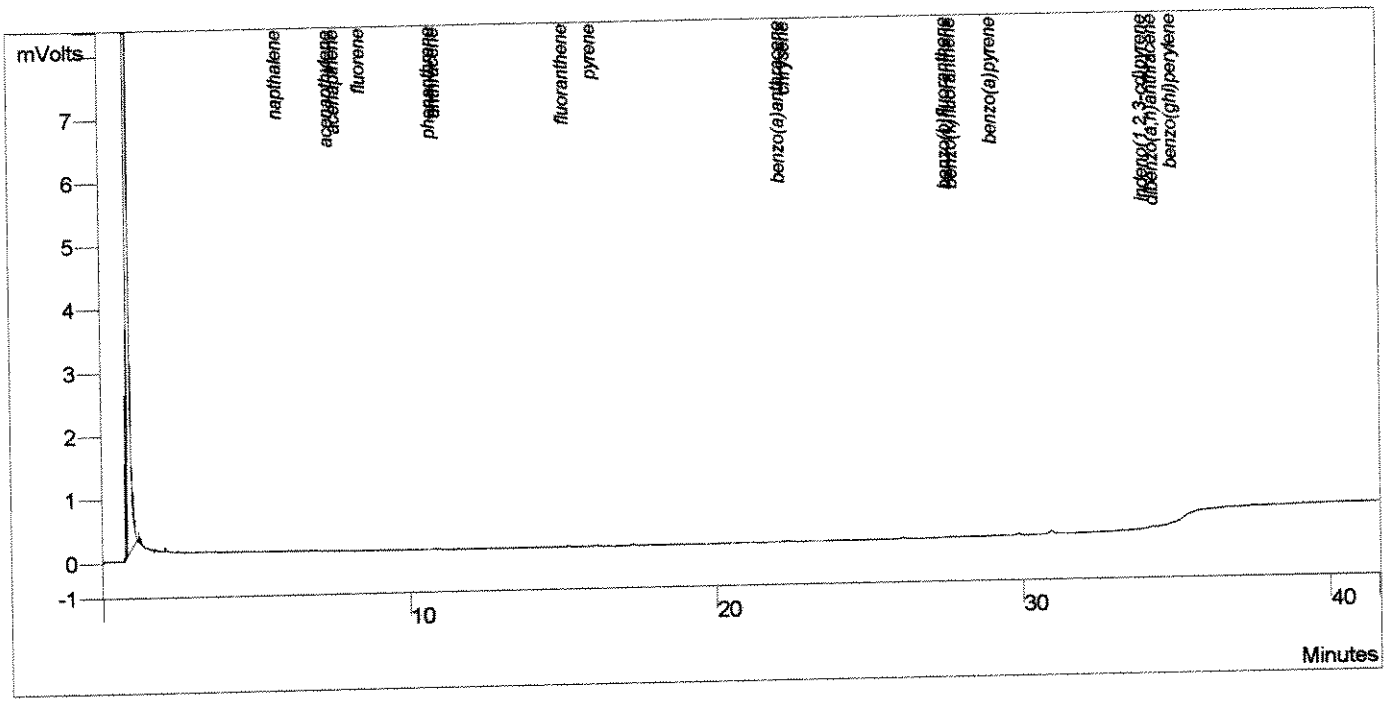
DETS 050 - PAH by GC-FID

Sample ID: **6152-40722**



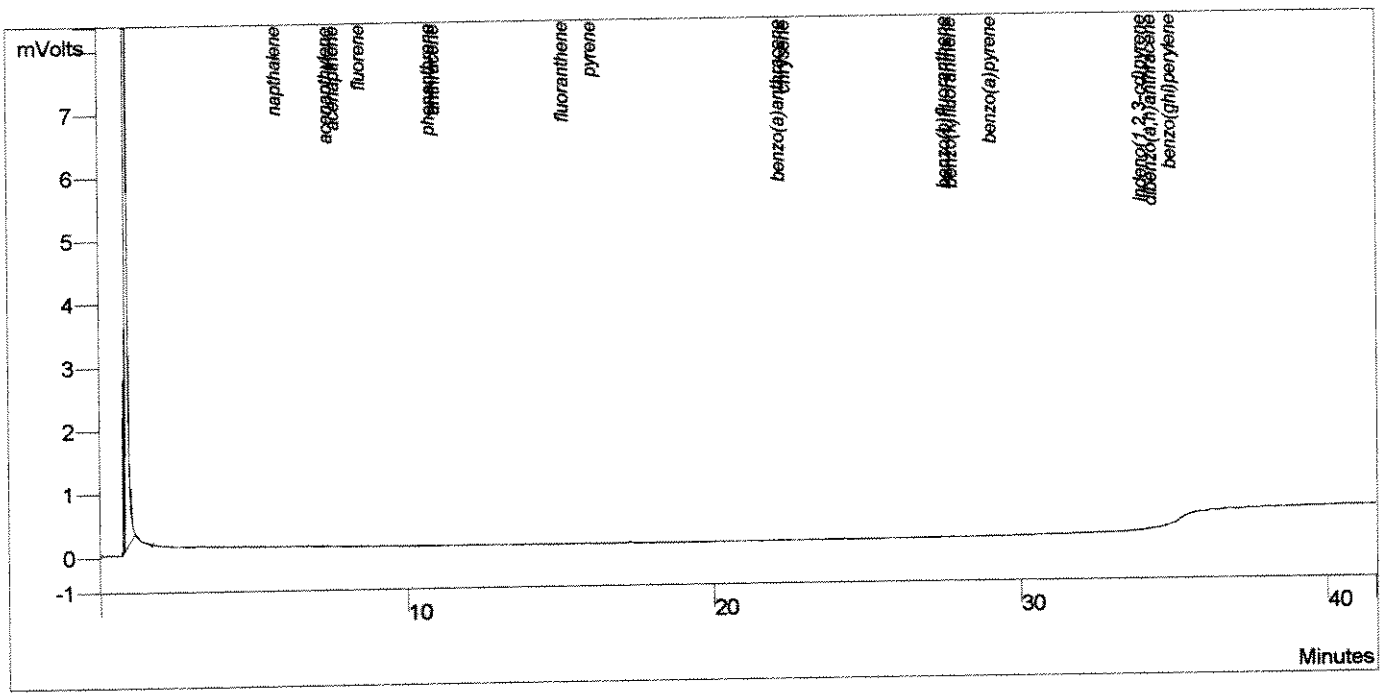
DETS 050 - PAH by GC-FID

Sample ID: **6152-40723**



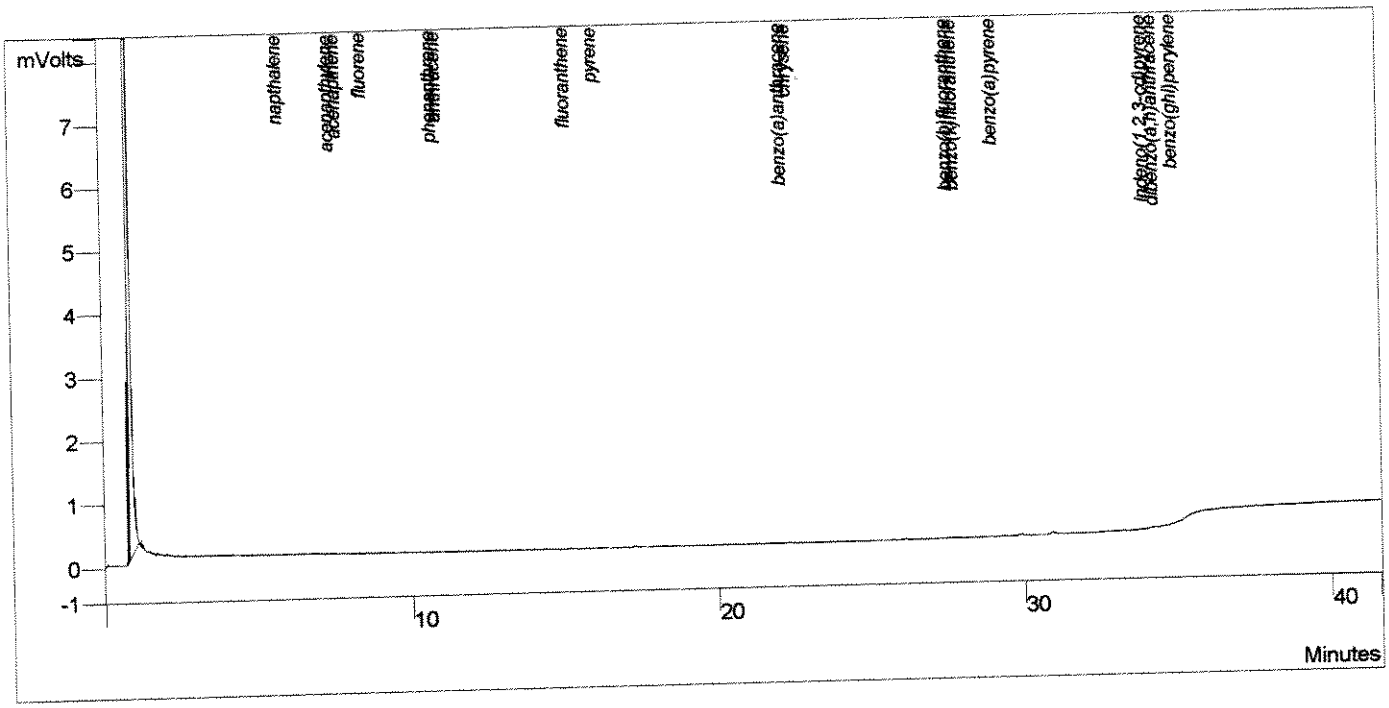
DETS 050 - PAH by GC-FID

Sample ID: **6152-40724**



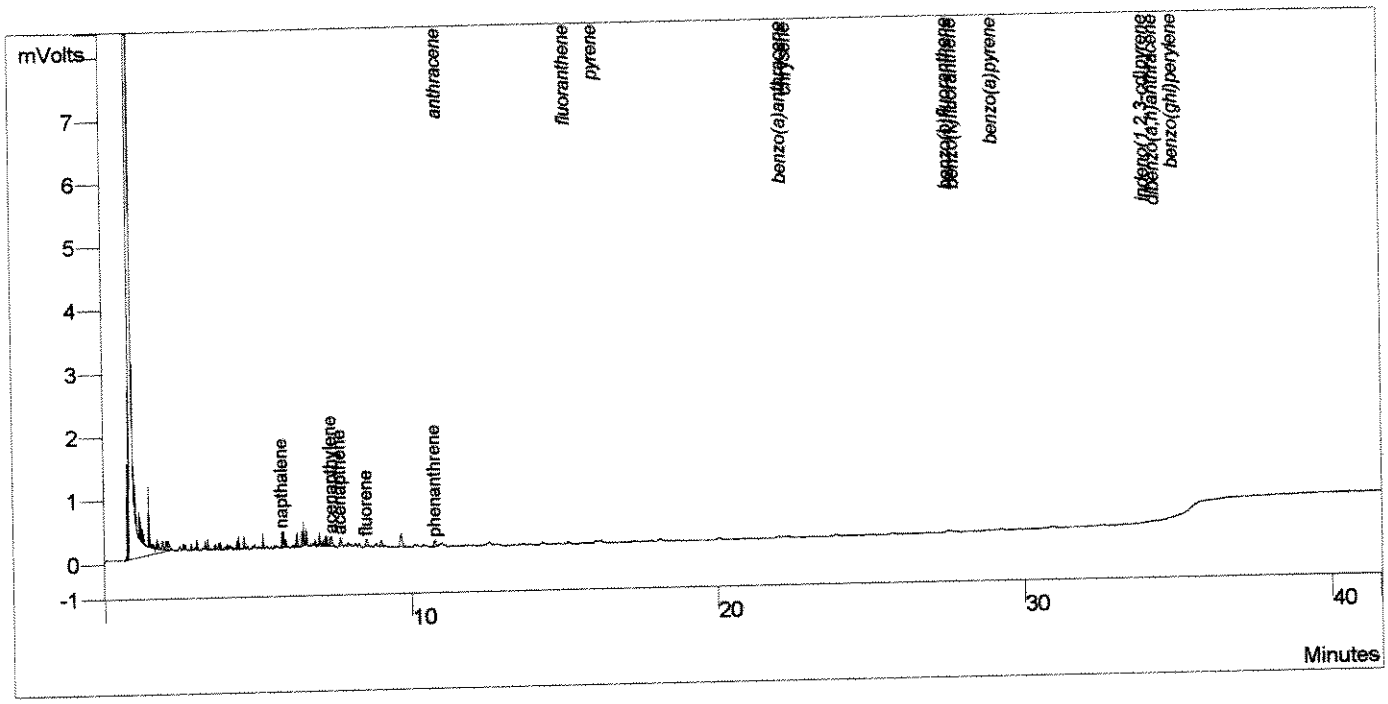
DETS 050 - PAH by GC-FID

Sample ID: **6152-40725**



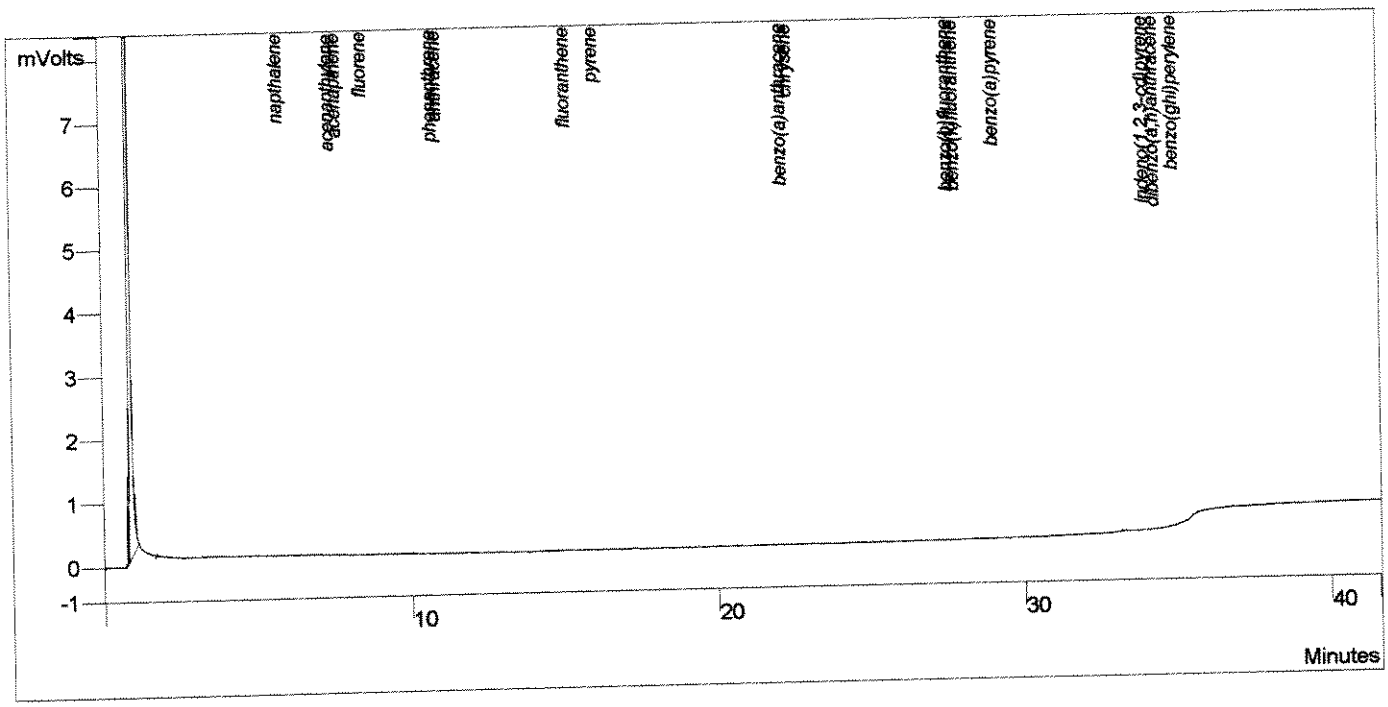
DETS 050 - PAH by GC-FID

Sample ID: **6152-40726**



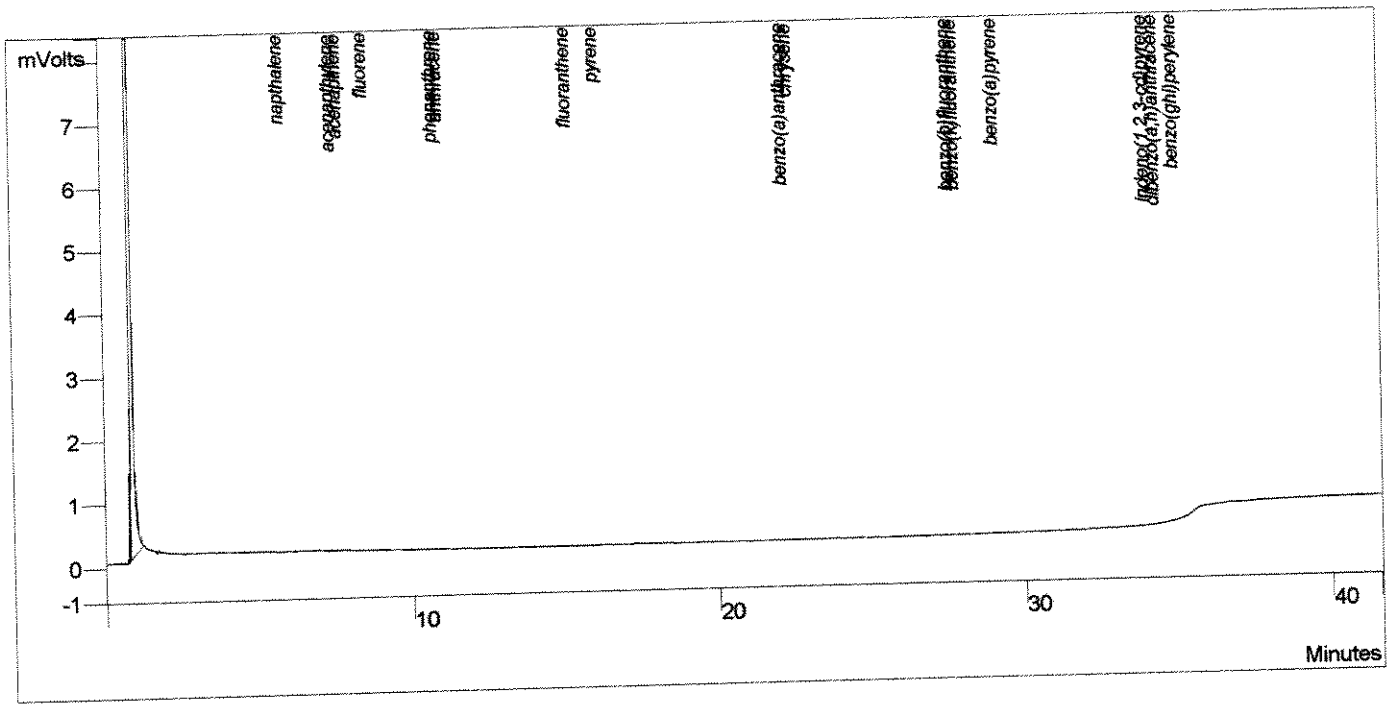
DETS 050 - PAH by GC-FID

Sample ID: **6152-40727**



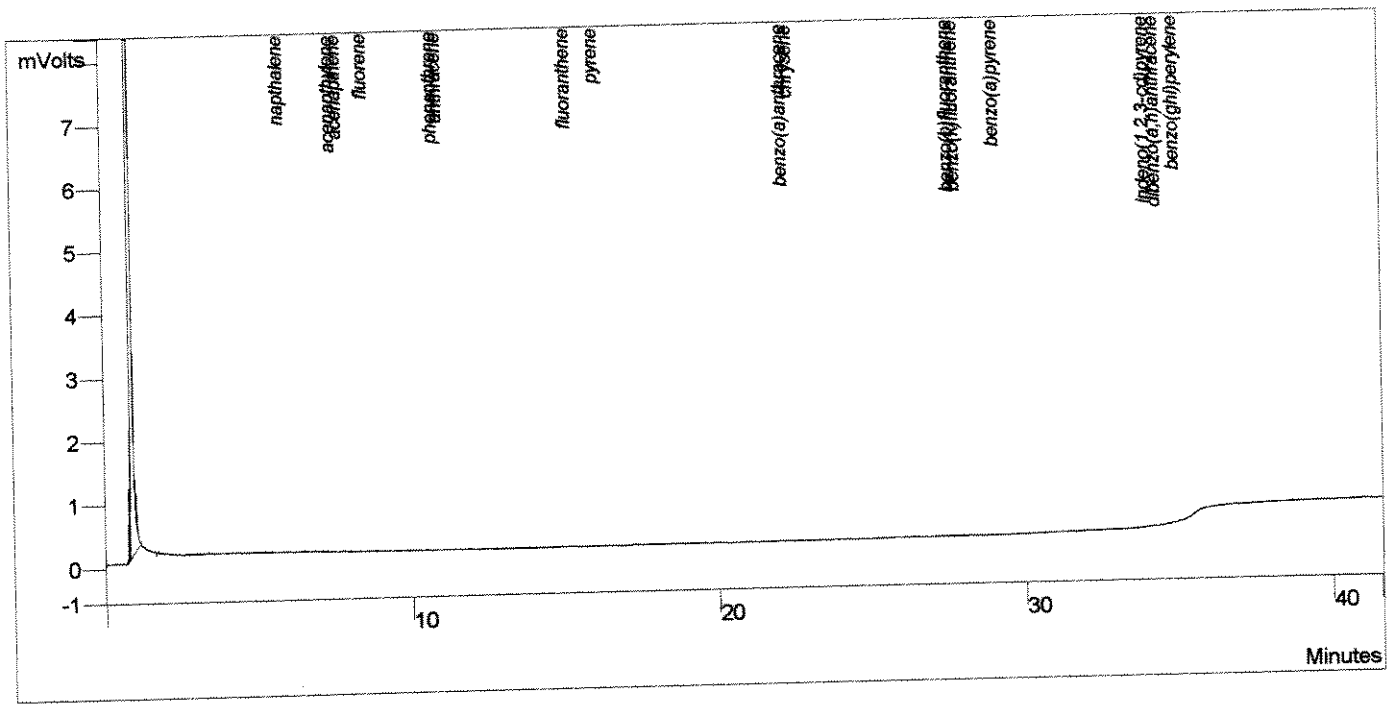
DETS 050 - PAH by GC-FID

Sample ID: **6152-40728**



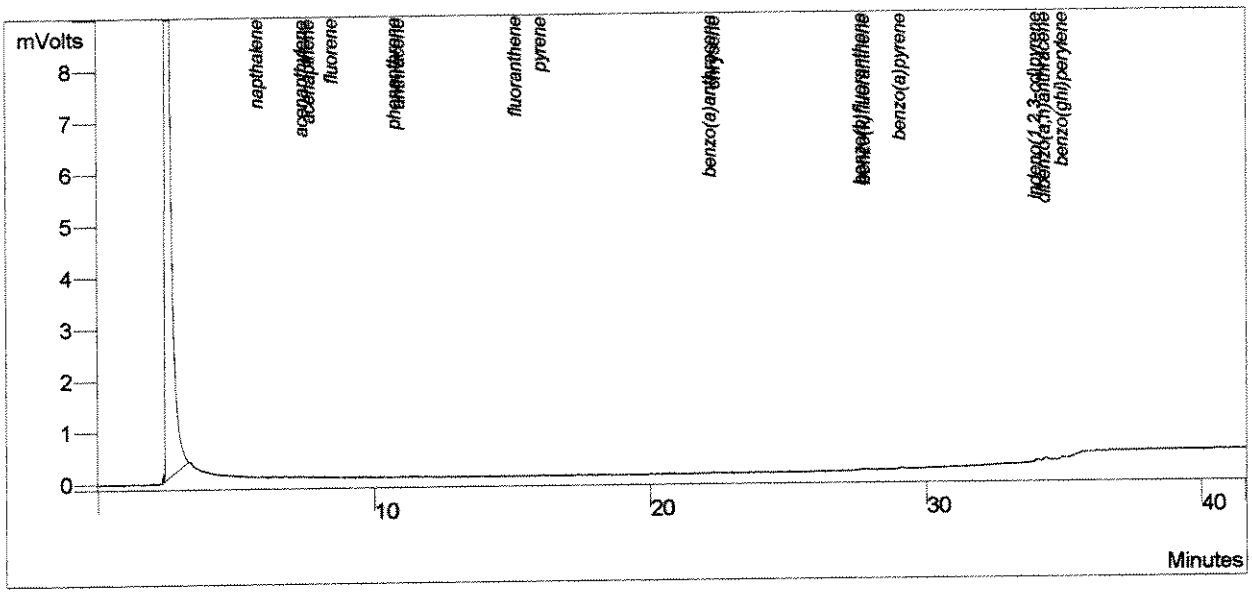
DETS 050 - PAH by GC-FID

Sample ID: **6152-40729**



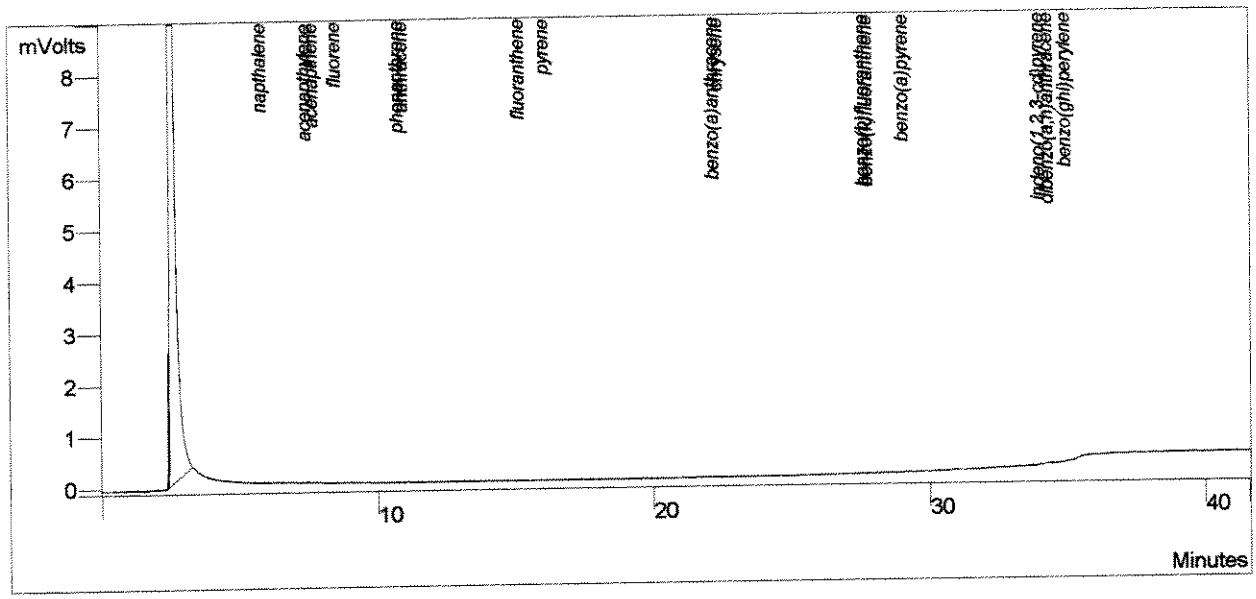
DETS 050 - PAH by GC-FID

Sample ID: **6152-40730**



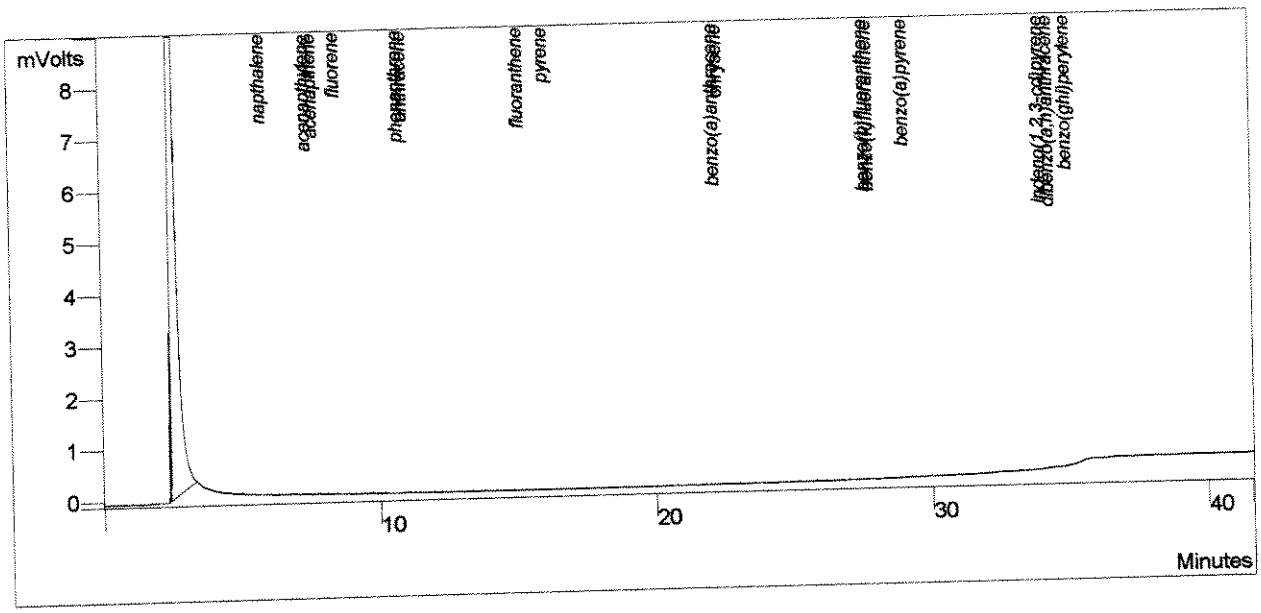
DETS 050 - PAH by GC-FID

Sample ID: **6152-40731**



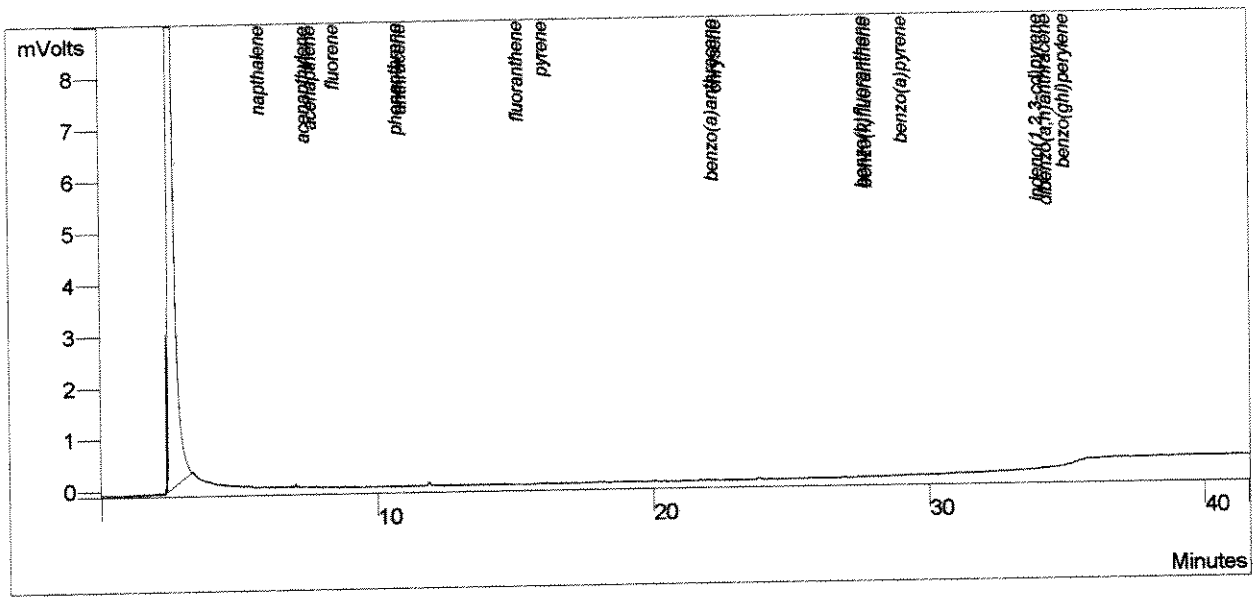
DETS 050 - PAH by GC-FID

Sample ID: **6152-40732**



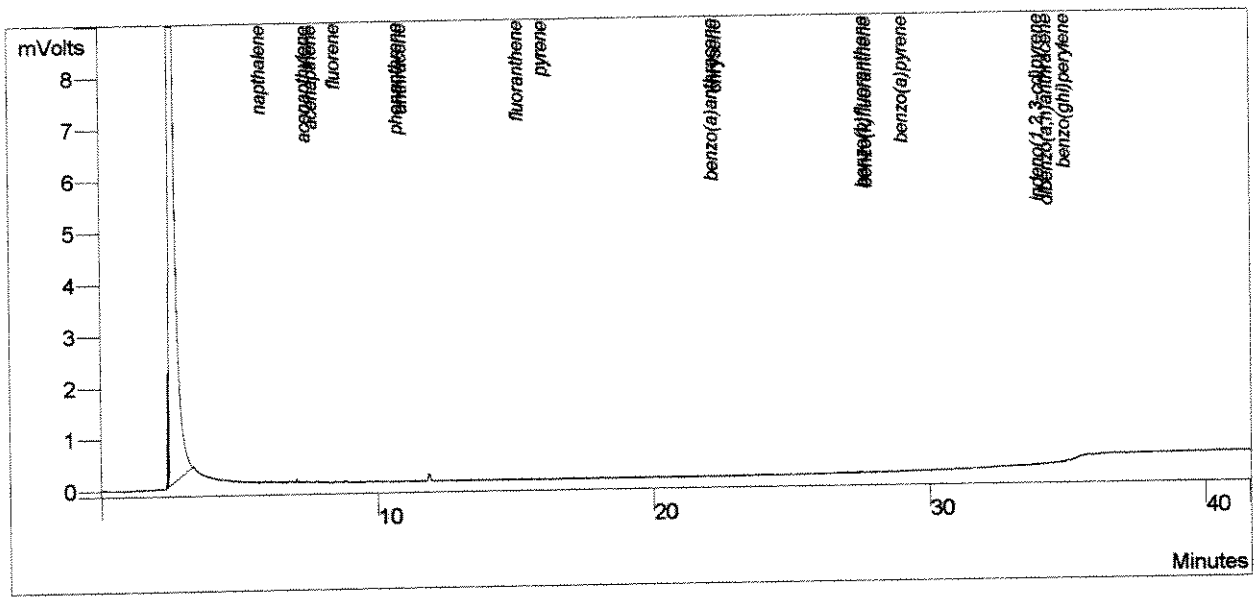
DETS 050 - PAH by GC-FID

Sample ID: **6152-40733**



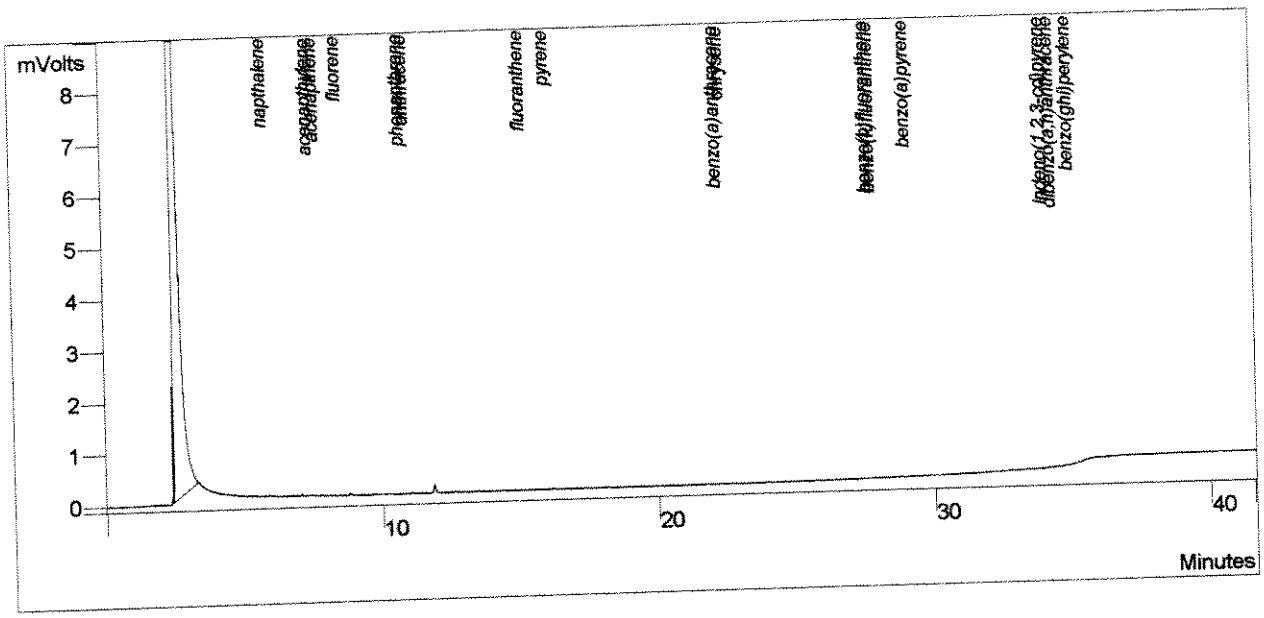
DETS 050 - PAH by GC-FID

Sample ID: **6152-40734**



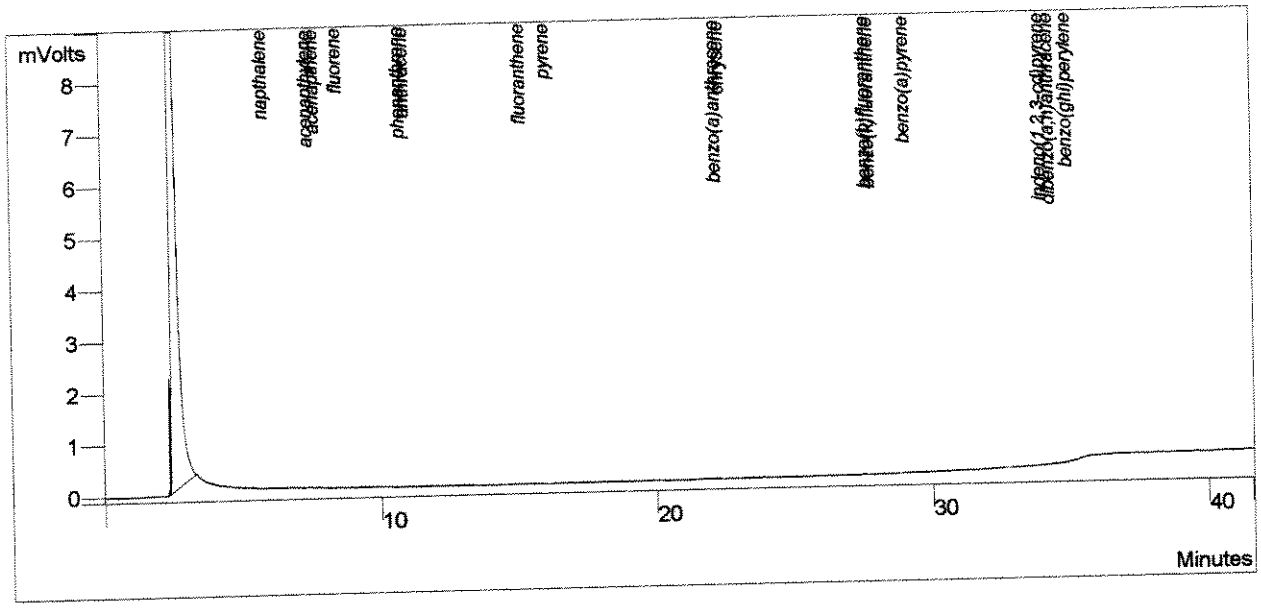
DETS 050 - PAH by GC-FID

Sample ID: **6152-40735**



DETS 050 - PAH by GC-FID

Sample ID: **6152-40736**



2139

Derwentside Environmental Testing Services

Certificate of Analysis

RECEIVED
19 JUL 2006

Certificate Number : 06-06146_M01

Client Reference:	C1277	**Date of issue:**	17/07/2006
Our Reference:	06-06146		
Clients Name:	Sirius Geotechnical & Environmental		
Clients Address:	Suite 3 Bowcliffe Grange Bowcliffe Hall Estate Bramham LS23 6LP		
Contract Title:	Barough Green		
Description:	2 leachate samples, 5 soil samples		
Date Received:	11/07/2006		
Date Commenced:	11/07/2006		
Date Completed:	17/07/2006		

Notes:

Test procedures are identified by prefix DETSn (details available upon request)
Observations and Interpretations are outside the UKAS Accreditation
* Denotes test not included in laboratory scope of accreditation
$ Denotes test carried out by approved subcontractor
I/S Denotes insufficient sample to carry out test
N/S Denotes that the sample is not suitable for testing
Samples will be disposed of 1 month after the date of issue of this test

Approved By:

R Bennett	R Brown	M Hopgood
Director	Business Manager	Technical Manager

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. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Derwentside Environmental Testing Services Limited.
Unit 2a/2b, Park Road Industrial Estate South, Consett, Co Durham. DH8 5PY
Tel: 01207 582333 • Fax: 01207 582444 • Email: info@dets.co.uk • www.dets.co.uk
Registered in England No. 370 5645 • VAT No. 708 978 678

Sample Details

Sample ID	Number	Dets Ref	Matrix Description	Date Sampled	Time Sampled	Preservation	Analysis Complete
WS1		40688		Not Provided	Not Provided	None	17/07/2006
WS1		40689		Not Provided	Not Provided	None	17/07/2006
WS4		40690		Not Provided	Not Provided	None	17/07/2006
WS4		40691		Not Provided	Not Provided	None	17/07/2006
WS5		40692		Not Provided	Not Provided	None	17/07/2006
WS1		40693		Not Provided	Not Provided	None	17/07/2006
WS4		40694		Not Provided	Not Provided	None	17/07/2006

Client Reference C1277

Laboratory Reference 06-06146

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole Depth Sample No Sample Type Lab Ref No	WS1 0.05 SOIL 40688	WS1 0.80 SOIL 40689	WS4 0.20 SOIL 40690	WS4 0.90 SOIL 40691	WS5 1.80 SOIL 40692	WS1 0.05 LEACHATE	WS4 0.20 LEACHATE
Arsenic	DETS 042	mg/kg		30	8	37	9	31	-----	-----
Cadmium	DETS 042	mg/kg		1.1	0.8	1.5	0.7	1.3	-----	-----
Chromium	DETS 042	mg/kg		45	22	44	12	48	-----	-----
Copper	DETS 042	mg/kg		93	21	170	23	81	-----	-----
Lead	DETS 042	mg/kg		64	12	67	18	68	-----	-----
Mercury	DETS 015	mg/kg		0.5	< 0.3	< 0.3	< 0.3	0.5	-----	-----
Nickel	DETS 042	mg/kg		16	15	26	16	26	-----	-----
Selenium	DETS 042	mg/kg		1.6	1.2	1.6	1.3	1.4	-----	-----
Zinc	DETS 042	mg/kg		86	85	92	95	85	-----	-----
Calorific Value	DETS 037*	KJ/kg		2900	-----	2100	-----	1500	-----	-----
Total Sulphate as SO4	DETS 075	%		0.12	0.03	0.11	0.01	0.12	-----	-----
Sulphate Aqueous Extract	DETS 076	g/l as SO4		0.05	0.02	0.08	0.03	0.23	-----	-----
Total Organic Carbon	DETS 002	%		6.2	0.4	6.7	0.5	5.3	-----	-----
pH	DETS 008			7.2	7.4	5.8	6.1	7.7	-----	-----
Acenaphthene	DETS 050	mg/kg		0.7	< 0.1	0.4	< 0.1	4.3	-----	-----
Acenapthylene	DETS 050	mg/kg		1.4	< 0.1	1.5	< 0.1	3.5	-----	-----
Anthracene	DETS 050	mg/kg		0.8	< 0.1	0.5	< 0.1	11	-----	-----
Benzo(a)anthracene	DETS 050	mg/kg		2.6	< 0.1	1.8	< 0.1	12	-----	-----
Benzo(a)pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	9.8	-----	-----
Benzo(b)fluoranthene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	14	-----	-----

Client Reference C1277

Laboratory Reference 06-06146

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole Depth Sample No Sample Type Lab Ref No	WS1 0.05 SOIL 40688	WS1 0.80 SOIL 40689	WS4 0.20 SOIL 40690	WS4 0.90 SOIL 40691	WS5 1.80 SOIL 40692	WS1 0.05 LEACHATE	WS4 0.20 LEACHATE
Benzo(k)fluoranthene	DETS 050	mg/kg		4.8	< 0.1	< 0.1	< 0.1	5.4	-----	-----
Benzo(g,h,i)perylene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	5.4	-----	-----
Chrysene	DETS 050	mg/kg		1.2	< 0.1	< 0.1	< 0.1	12	-----	-----
Dibenzo(a,h)anthracene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-----	-----
Fluoranthene	DETS 050	mg/kg		4.8	< 0.1	2.6	< 0.1	38	-----	-----
Fluorene	DETS 050	mg/kg		1.1	< 0.1	0.7	< 0.1	6.8	-----	-----
Indeno(1,2,3-c,d)pyrene	DETS 050	mg/kg		< 0.1	< 0.1	< 0.1	< 0.1	5.7	-----	-----
Naphthalene	DETS 050	mg/kg		1.5	< 0.1	1.3	< 0.1	16	-----	-----
Phenanthrene	DETS 050	mg/kg		3.8	< 0.1	2.1	< 0.1	46	-----	-----
Pyrene	DETS 050	mg/kg		3.8	< 0.1	2.3	< 0.1	28	-----	-----
PAH	DETS 050	mg/kg		27	< 5.0	13	< 5.0	220	-----	-----
Phenol - Monohydric	DETS 067	mg/kg		0.3	< 0.3	< 0.3	< 0.3	4.0	-----	-----
Arsenic	DETS 010	ug/l		-----	-----	-----	-----	-----	< 1	< 1
Cadmium	DETS 042	ug/l		-----	-----	-----	-----	-----	< 2	< 2
Chromium	DETS 042	ug/l		-----	-----	-----	-----	-----	< 10	< 10
Copper	DETS 042	ug/l		-----	-----	-----	-----	-----	2	3
Lead	DETS 042	ug/l		-----	-----	-----	-----	-----	< 5	< 5
Mercury	DETS 078*	ug/l		-----	-----	-----	-----	-----	< 0.2	< 0.2
Nickel	DETS 042	ug/l		-----	-----	-----	-----	-----	< 10	< 10
Selenium	DETS 012	ug/l		-----	-----	-----	-----	-----	< 3	< 3

Client Reference C1277

Laboratory Reference 06-06146

Barough Green

Summary of Chemical Analysis

Determination		Units	Borehole Depth Sample No Sample Type Lab Ref No	WS1 0.05 SOIL 40688	WS1 0.80 SOIL 40689	WS4 0.20 SOIL 40690	WS4 0.90 SOIL 40691	WS5 1.80 SOIL 40692	WS1 0.05 LEACHATE	WS4 0.20 LEACHATE
Zinc	DETS 042	ug/l		-----	-----	-----	-----	-----	280	440
pH	DETS 008			-----	-----	-----	-----	-----	6.4	5.9
Acenaphthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	< 0.01	< 0.01
Acenapthylene	DETS 050*	ug/l		-----	-----	-----	-----	-----	< 0.01	< 0.01
Anthracene	DETS 050*	ug/l		-----	-----	-----	-----	-----	< 0.01	< 0.01
Benzo(a)anthracene	DETS 050*	ug/l		-----	-----	-----	-----	-----	0.01	< 0.01
Benzo(a)pyrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	0.01	0.01
Benzo(b)fluoranthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	0.02	0.02
Benzo(k)fluoranthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETS 050*	ug/l		-----	-----	-----	-----	-----	0.01	0.01
Chrysene	DETS 050*	ug/l		-----	-----	-----	-----	-----	0.02	0.02
Dibenzo(a,h)anthracene	DETS 050*	ug/l		-----	-----	-----	-----	-----	< 0.01	< 0.01
Fluoranthene	DETS 050*	ug/l		-----	-----	-----	-----	-----	0.01	0.01
Fluorene	DETS 050*	ug/l		-----	-----	-----	-----	-----	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	< 0.01	< 0.01
Naphthalene	DETS 050*	ug/l		-----	-----	-----	-----	-----	< 0.01	< 0.01
Phenanthrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	0.01	0.01
Pyrene	DETS 050*	ug/l		-----	-----	-----	-----	-----	0.10	0.09
PAH	DETS 050*	ug/l		-----	-----	-----	-----	-----	0.21	< 0.20
Phenol HPLC	DETS 054*	ug/l		-----	-----	-----	-----	-----	< 0.50	< 0.50

Appendix A - Details of Analysis

Method	Name of Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 003	Loss On Ignition	%	0.01	Air Dried	No	Yes	No
DETS 004	Sulphate	%	0.01	Air Dried	No	Yes	Yes
DETS 006	Chloride	mg/kg	0.01	Air Dried	No	Yes	No
DETS 008	pH	pH Units	0.10	Air Dried	No	Yes	Yes
DETS 017	Selenium	mg/kg	0.30	Air Dried	No	Yes	No
DETS 019	Ammonia	mg/kg	0.02	Air Dried	No	Yes	No
DETS 020	Boron (water soluble)	mg/kg	0.20	Air Dried	No	Yes	Yes
DETS 024	Sulphide	mg/kg	10.00	Air Dried	No	Yes	Yes
DETS 042	Antimony	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Arsenic	mg/kg	1.00	Air Dried	No	Yes	Yes
DETS 042	Barium	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Beryllium	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Cadmium	mg/kg	0.20	Air Dried	No	Yes	No
DETS 042	Cobalt	mg/kg	0.20	Air Dried	No	No	No
DETS 042	Copper	mg/kg	1.00	Air Dried	No	Yes	No
DETS 042	Chromium	mg/kg	1.00	Air Dried	No	Yes	No

Methods details are shown only for those determinants listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS

Full method statements are available on request.

Appendix A - Details of Analysis

Method	Name of Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 042	Iron	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Lead	mg/kg	1.00	Air Dried	No	Yes	No
DETS 042	Manganese	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Mercury	mg/kg	0.30	Air Dried	No	Yes	No
DETS 042	Molybdenum	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Nickel	mg/kg	1.00	Air Dried	No	Yes	No
DETS 042	Thallium	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Vanadium	mg/kg	1.00	Air Dried	No	No	No
DETS 042	Zinc	mg/kg	1.00	Air Dried	No	Yes	Yes
DETS 049	Sulphur (free)	mg/kg	0.50	As Recieved	No	Yes	Yes
DETS 050	PAH's	mg/kg	0.10	As Recieved	No	Yes	No
DETS 051	TPH's	mg/kg	20.00	As Recieved	No	Yes	Yes
DETS 052	PCB's	mg/kg	0.01	As Recieved	No	Yes	Yes
DETS 062	Benzene	mg/kg	0.01	As Recieved	No	Yes	Yes
DETS 062	Toluene	mg/kg	0.01	As Recieved	No	Yes	Yes
DETS 062	Ethylbenzene	mg/kg	0.01	As Recieved	No	Yes	Yes

Methods details are shown only for those determinants listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS

Full method statements are available on request.

Appendix A - Details of Analysis

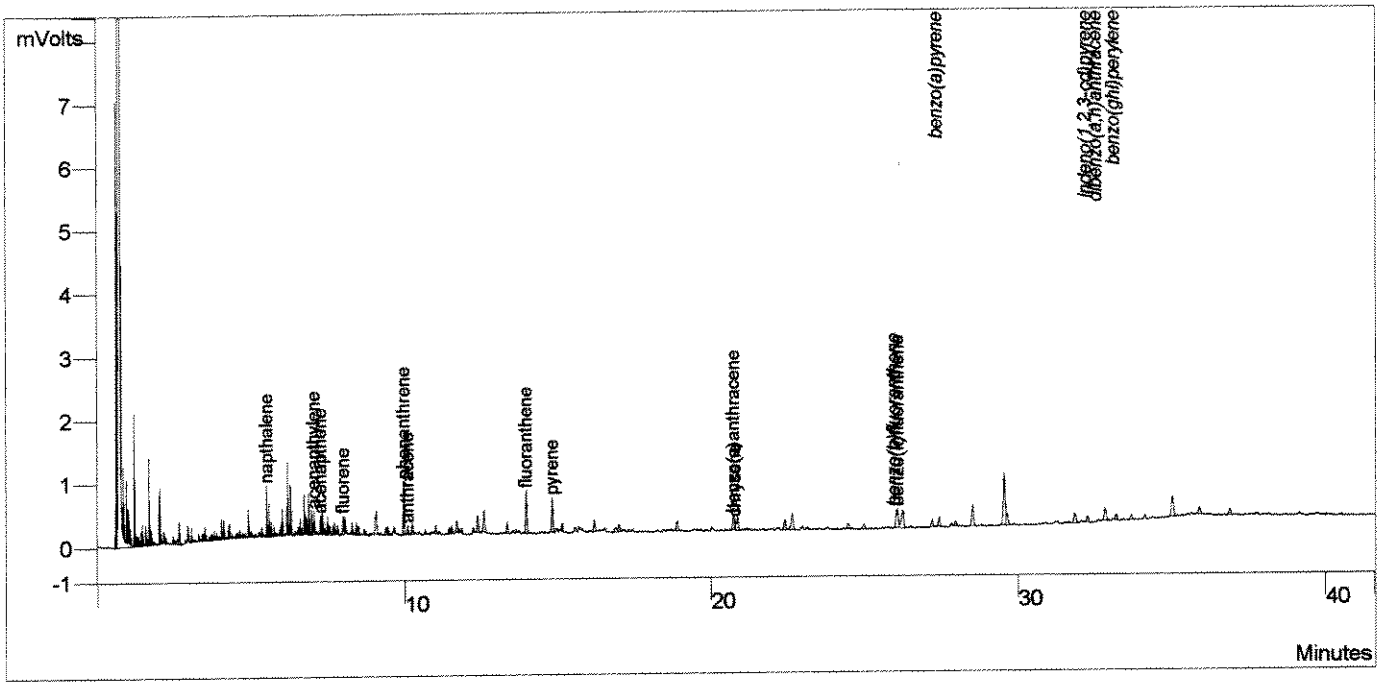
Method	Name of Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 062	Xylene	mg/kg	0.01	As Recieved	No	Yes	Yes
DETS 067	Phenol - Monohydric	mg/kg	0.30	Air Dried	No	Yes	Yes
DETS 067	Easily Liberatable Cyanide	mg/kg	0.10	Air Dried	No	Yes	Yes
DETS 067	Complex Cyanide	mg/kg	0.20	Air Dried	No	Yes	Yes
DETS 067	Total Cyanide	mg/kg	0.20	Air Dried	No	Yes	Yes
DETS 067	Thiocyanate	mg/kg	0.60	Air Dried	No	Yes	Yes
DETS 068	VOC's	mg/kg	0.01	As Recieved	No	No	No

Methods details are shown only for those determinants listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS

Full method statements are available on request.

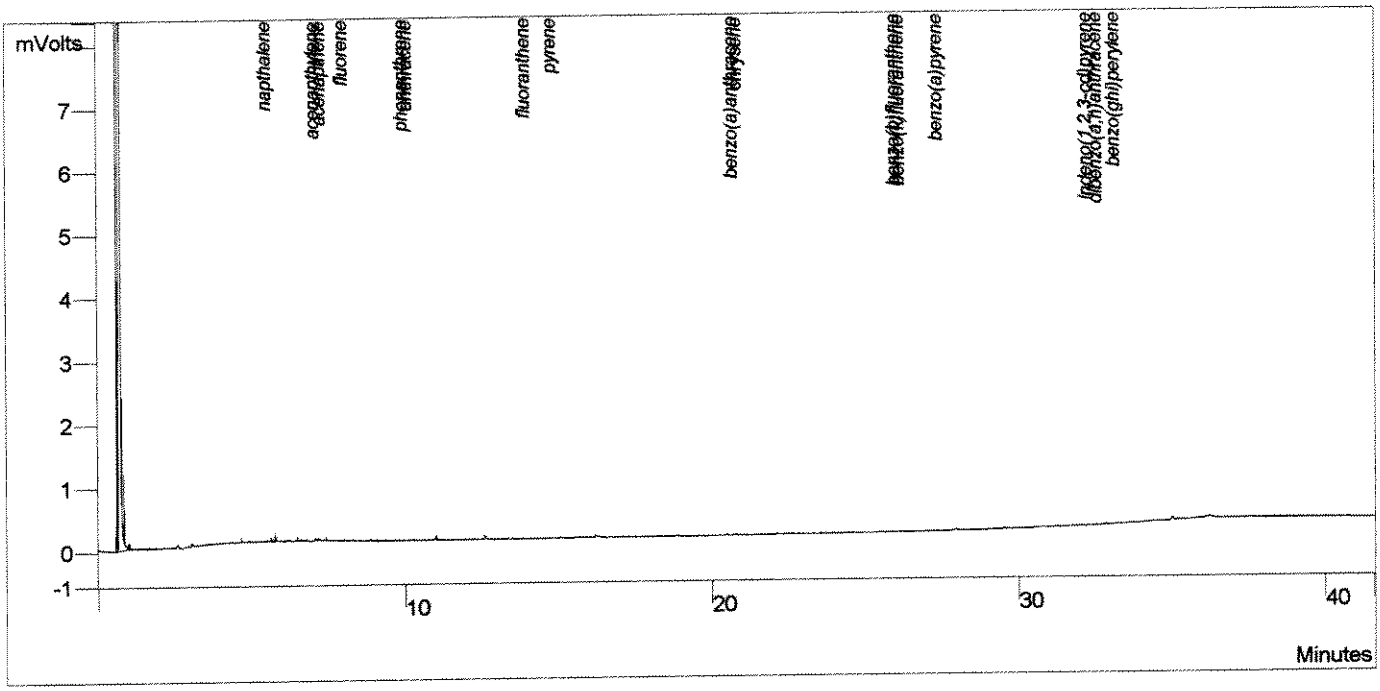
DETS 050 - PAH by GC-FID

Sample ID: **6146-40688**



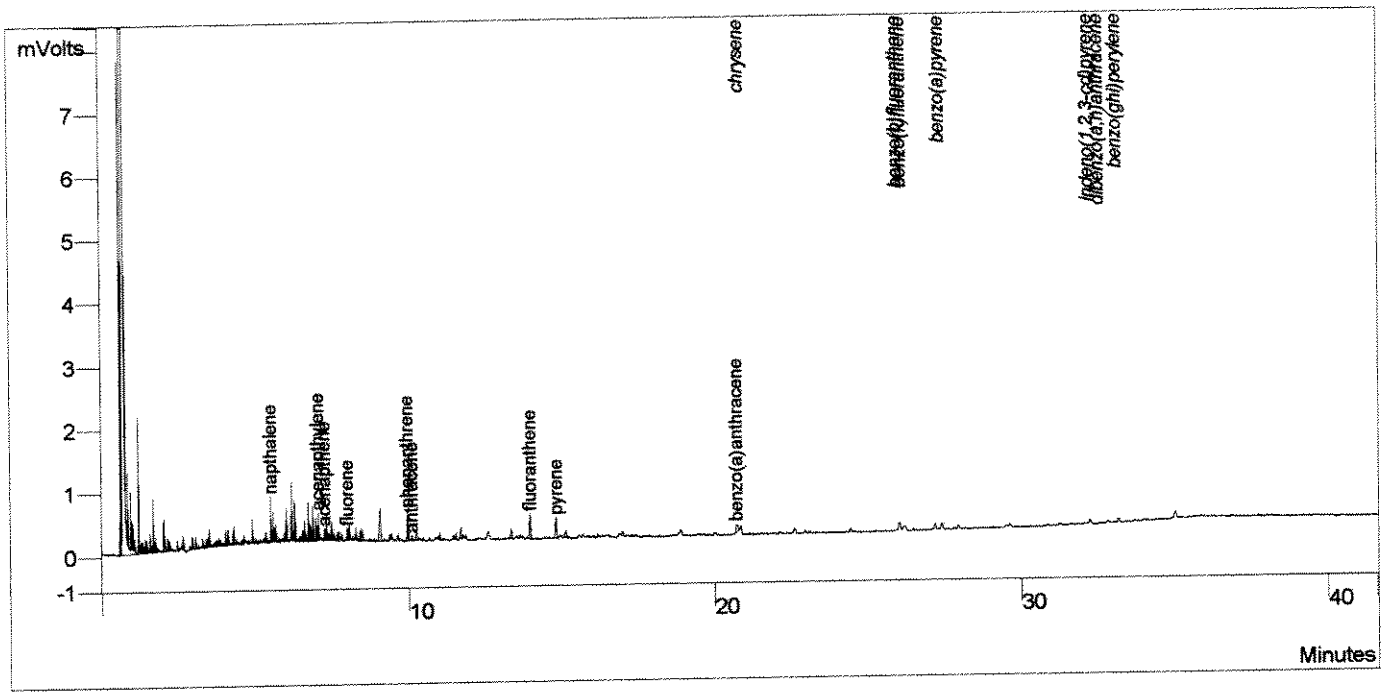
DETS 050 - PAH by GC-FID

Sample ID: **6146-40689**



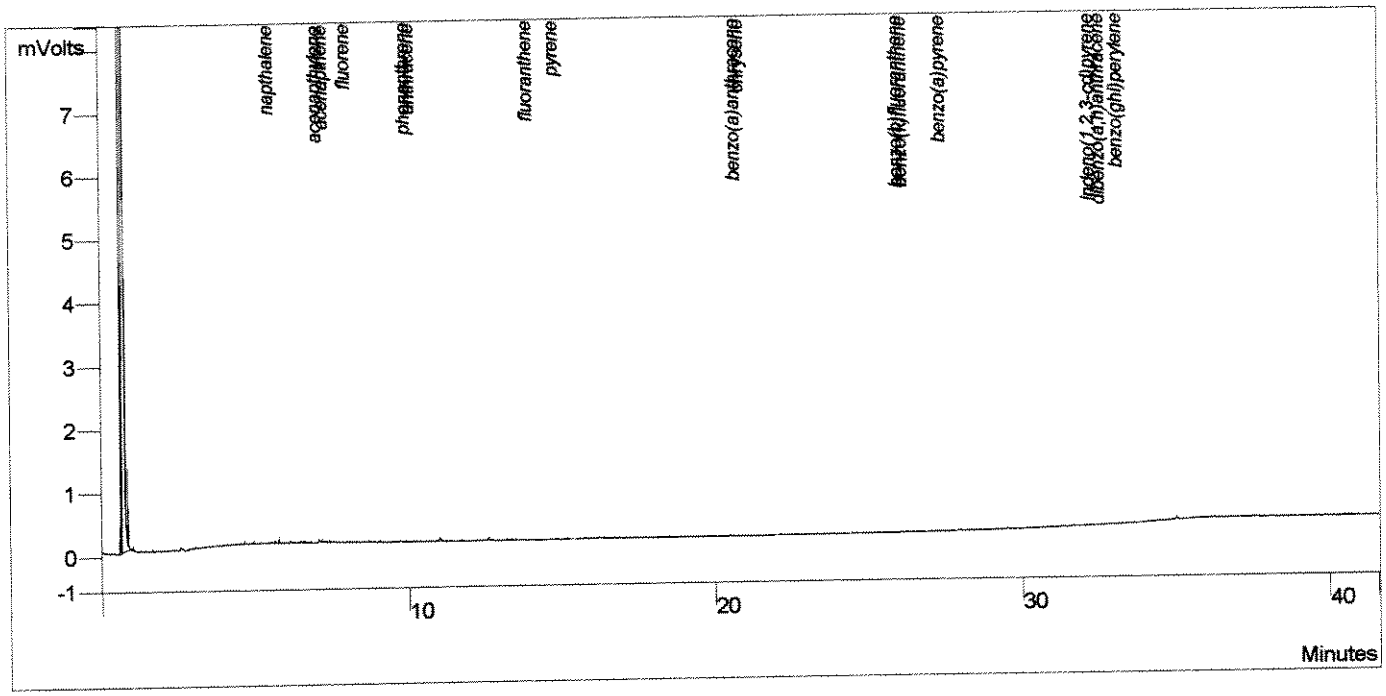
DETS 050 - PAH by GC-FID

Sample ID: **6146-40690**



DETS 050 - PAH by GC-FID

Sample ID: **6146-40691**



DETS 050 - PAH by GC-FID

Sample ID: **6146-40692**

