



## CERTIFICATE OF ANALYSIS

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**Client:** John Barnett & Associates (Dublin)  
CSA House  
Unit 7  
Dundrum Business Park  
Windy Arbour  
Dublin14  
Ireland

**Attention:** Tom Moore

**Date:** 28 November, 2007

**Our Reference:** 07-B07794/01

**Your Reference:** 3746

**Location:** John Behan Waste Licence Blackhall

A total of 18 samples was received for analysis on Tuesday, 13 November 2007 and authorised on Wednesday, 28 November 2007. Accredited laboratory tests are defined in the log sheet, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation. We are pleased to enclose our final report, it was a pleasure to be of service to you, and we look forward to our continuing association.

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

Signed

**Lorraine McNamara**  
Laboratory Technical Manager

Compiled By

.....  
Paul Barry



# Alcontrol Laboratories Ireland

## Test Schedule

**Ref Number: 07-B07794/01**

Client: John Barnett & Associates (Dublin)

Date of Receipt: 13/11/2007

**Sample Type: SOIL**

Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method		CEN 10:1 Leach	CV AA	ELTRA	GC	GC	GC	GCMS	GCMS	GCMS	GCMS	GCMS	GCMS	GCMS	GRAVIMETRIC	GRAVIMETRIC	HPLC
	Alcontrol Reference	Sample Identity																
07-B07794-S0016-A01	TP1	1.8M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0016-A03	TP1	1.8M	Amber Jar	X	-	X	X	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0016-A18	TP1	1.8M	Volatlie Vial	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0017-A01	TP2	0.9M	Plastic tub	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0017-A03	TP2	0.9M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0017-A18	TP2	0.9M	Volatlie Vial	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0018-A01	TP3	1.6M	Plastic tub	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0018-A03	TP3	1.6M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0018-A18	TP3	1.6M	Volatlie Vial	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0019-A01	TP4	2.6M	Plastic tub	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0019-A03	TP4	2.6M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0019-A18	TP4	2.6M	Volatlie Vial	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0020-A01	TP6	1.8M	Plastic tub	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0020-A03	TP6	1.8M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0020-A18	TP6	1.8M	Volatlie Vial	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0021-A01	TP7	1.5M	Plastic tub	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0021-A03	TP7	1.5M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0021-A18	TP7	1.5M	Volatlie Vial	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0022-A01	TP8	1.7M	Plastic tub	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0022-A03	TP8	1.7M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

**Notes :** NUMERIC VALUES INDICATE ADDITIONAL SCHEDULING

# Alcontrol Laboratories Ireland

## Test Schedule

**Ref Number: 07-B07794/01**

**Sample Type: SOIL**

Client: John Barnett & Associates (Dublin)

Location: John Behan Waste Licence Blackhall

Date of Receipt: 13/11/2007

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method		CEN 10:1 Leach	CV AA	ELTRA	GC	GC	GC	GCMS	GCMS	GCMS	GCMS	GCMS	GCMS	GCMS	GRAVIMETRIC	GRAVIMETRIC	HPLC
	Sample Identity	Other ID																
07-B07794-S0022-A18	TP8	1.7M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0023-A01	TP9	2.5M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0023-A03	TP9	2.5M	Amber Jar	X	-	X	-	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0023-A18	TP9	2.5M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0024-A01	TP10	1.2M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0024-A03	TP10	1.2M	Amber Jar	X	-	X	-	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0024-A18	TP10	1.2M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0025-A01	TP11	1.3M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0025-A03	TP11	1.3M	Amber Jar	X	-	X	-	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0025-A18	TP11	1.3M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0026-A01	TP12	1.5M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0026-A03	TP12	1.5M	Amber Jar	X	-	X	-	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0026-A18	TP12	1.5M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0027-A01	TP13	1.7M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0027-A03	TP13	1.7M	Amber Jar	X	-	X	-	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0027-A18	TP13	1.7M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0028-A01	TP14	0.8M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0028-A03	TP14	0.8M	Amber Jar	X	-	X	-	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0028-A18	TP14	0.8M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0029-A01	TP15	1.5M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-

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Date of Receipt: 13/11/2007

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Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method		CEN 10:1 Leach	CV AA	ELTRA	GC	GC	GC	GCMS	GCMS	GCMS	GCMS	GCMS	GCMS	GCMS	GRAVIMETRIC	GRAVIMETRIC	HPLC
	Sample Identity	Other ID																
07-B07794-S0029-A03	TP15	1.5M	Amber Jar	X	-	X	X	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0029-A18	TP15	1.5M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0030-A01	TP16	1.5M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0030-A03	TP16	1.5M	Amber Jar	X	-	X	X	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0030-A18	TP16	1.5M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0031-A01	TP17	0.9M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0031-A03	TP17	0.9M	Amber Jar	X	-	X	X	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0031-A18	TP17	0.9M	Volatile Vial	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-
07-B07794-S0032-A01	TP18	0.9M	Plastic tub	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0032-A03	TP18	0.9M	Amber Jar	X	-	X	X	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0032-A18	TP18	0.9M	Amber Jar	X	-	X	X	-	X	X	X	X	X	X	X	X	X	X
07-B07794-S0033-A01	TP5	1.7M	Plastic tub	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0033-A03	TP5	1.7M	Amber Jar	2	-	2	2	-	2	2	2	2	2	2	2	2	2	2
07-B07794-S0033-A18	TP5	1.7M	Volatile Vial	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-

Notes : NUMERIC VALUES INDICATE ADDITIONAL SCHEDULING

# Alcontrol Laboratories Ireland

## Test Schedule

**Ref Number: 07-B07794/01**

Client: John Barnett & Associates (Dublin)

Date of Receipt: 13/11/2007

**Sample Type: SOIL**

Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method		ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	IR	KONE	KONE		
	Sample Identity	Other ID																					P / V	
07-B07794-S0016-A01	TP1	1.8M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0016-A03	TP1	1.8M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0016-A18	TP1	1.8M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0017-A01	TP2	0.9M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0017-A03	TP2	0.9M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0017-A18	TP2	0.9M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0018-A01	TP3	1.6M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0018-A03	TP3	1.6M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0018-A18	TP3	1.6M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0019-A01	TP4	2.6M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0019-A03	TP4	2.6M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0019-A18	TP4	2.6M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0020-A01	TP6	1.8M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0020-A03	TP6	1.8M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0020-A18	TP6	1.8M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0021-A01	TP7	1.5M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0021-A03	TP7	1.5M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0021-A18	TP7	1.5M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0022-A01	TP8	1.7M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0022-A03	TP8	1.7M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

**Notes :** NUMERIC VALUES INDICATE ADDITIONAL SCHEDULING

# Alcontrol Laboratories Ireland

## Test Schedule

**Ref Number: 07-B07794/01**

Client: John Barnett & Associates (Dublin)

Date of Receipt: 13/11/2007

**Sample Type: SOIL**

Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method		ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	IR	KONE	KONE	
	Sample Identity	Other ID																					P / V
07-B07794-S0022-A18	TP8	1.7M	Volatle Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0023-A01	TP9	2.5M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0023-A03	TP9	2.5M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0023-A18	TP9	2.5M	Volatle Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0024-A01	TP10	1.2M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0024-A03	TP10	1.2M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0024-A18	TP10	1.2M	Volatle Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0025-A01	TP11	1.3M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0025-A03	TP11	1.3M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0025-A18	TP11	1.3M	Volatle Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0026-A01	TP12	1.5M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0026-A03	TP12	1.5M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0026-A18	TP12	1.5M	Volatle Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0027-A01	TP13	1.7M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0027-A03	TP13	1.7M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0027-A18	TP13	1.7M	Volatle Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0028-A01	TP14	0.8M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0028-A03	TP14	0.8M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0028-A18	TP14	0.8M	Volatle Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0029-A01	TP15	1.5M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Notes :** NUMERIC VALUES INDICATE ADDITIONAL SCHEDULING

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**Sample Type: SOIL**

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	Sample Identity	Other ID																				P / V
07-B07794-S0029-A03	TP15	1.5M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0029-A18	TP15	1.5M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0030-A01	TP16	1.5M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0030-A03	TP16	1.5M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0030-A18	TP16	1.5M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0031-A01	TP17	0.9M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0031-A03	TP17	0.9M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0031-A18	TP17	0.9M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0032-A01	TP18	0.9M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0032-A03	TP18	0.9M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0032-A18	TP18	0.9M	Amber Jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07-B07794-S0033-A01	TP5	1.7M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0033-A03	TP5	1.7M	Plastic tub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-B07794-S0033-A03	TP5	1.7M	Amber Jar	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
07-B07794-S0033-A18	TP5	1.7M	Volatile Vial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method			KONE																
	Sample Identity	Other ID	P / V																	
07-B07794-S0016-A01	TP1	1.8M	Plastic tub	-																
07-B07794-S0016-A03	TP1	1.8M	Amber Jar	X																
07-B07794-S0016-A18	TP1	1.8M	Volatile Vial	-																
07-B07794-S0017-A01	TP2	0.9M	Plastic tub	-																
07-B07794-S0017-A03	TP2	0.9M	Amber Jar	X																
07-B07794-S0017-A18	TP2	0.9M	Volatile Vial	-																
07-B07794-S0018-A01	TP3	1.6M	Plastic tub	-																
07-B07794-S0018-A03	TP3	1.6M	Amber Jar	X																
07-B07794-S0018-A18	TP3	1.6M	Volatile Vial	-																
07-B07794-S0019-A01	TP4	2.6M	Plastic tub	-																
07-B07794-S0019-A03	TP4	2.6M	Amber Jar	X																
07-B07794-S0019-A18	TP4	2.6M	Volatile Vial	-																
07-B07794-S0020-A01	TP6	1.8M	Plastic tub	-																
07-B07794-S0020-A03	TP6	1.8M	Amber Jar	X																
07-B07794-S0020-A18	TP6	1.8M	Volatile Vial	-																
07-B07794-S0021-A01	TP7	1.5M	Plastic tub	-																
07-B07794-S0021-A03	TP7	1.5M	Amber Jar	X																
07-B07794-S0021-A18	TP7	1.5M	Volatile Vial	-																
07-B07794-S0022-A01	TP8	1.7M	Plastic tub	-																
07-B07794-S0022-A03	TP8	1.7M	Amber Jar	X																

**Notes :** NUMERIC VALUES INDICATE ADDITIONAL SCHEDULING



# ALcontrol Laboratories Ireland

## Test Schedule

**Ref Number: 07-B07794/01**

Client: John Barnett & Associates (Dublin)

Date of Receipt: 13/11/2007

**Sample Type: SOIL**

Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291		Detection Method																	
Alcontrol Reference	Sample Identity	Other ID	P / V	Sulphate in CEN 10:1 Leachate															
07-B07794-S0022-A18	TP8	1.7M	Volatile Vial	-															
07-B07794-S0023-A01	TP9	2.5M	Plastic tub	-															
07-B07794-S0023-A03	TP9	2.5M	Amber Jar	X															
07-B07794-S0023-A18	TP9	2.5M	Volatile Vial	-															
07-B07794-S0024-A01	TP10	1.2M	Plastic tub	-															
07-B07794-S0024-A03	TP10	1.2M	Amber Jar	X															
07-B07794-S0024-A18	TP10	1.2M	Volatile Vial	-															
07-B07794-S0025-A01	TP11	1.3M	Plastic tub	-															
07-B07794-S0025-A03	TP11	1.3M	Amber Jar	X															
07-B07794-S0025-A18	TP11	1.3M	Volatile Vial	-															
07-B07794-S0026-A01	TP12	1.5M	Plastic tub	-															
07-B07794-S0026-A03	TP12	1.5M	Amber Jar	X															
07-B07794-S0026-A18	TP12	1.5M	Volatile Vial	-															
07-B07794-S0027-A01	TP13	1.7M	Plastic tub	-															
07-B07794-S0027-A03	TP13	1.7M	Amber Jar	X															
07-B07794-S0027-A18	TP13	1.7M	Volatile Vial	-															
07-B07794-S0028-A01	TP14	0.8M	Plastic tub	-															
07-B07794-S0028-A03	TP14	0.8M	Amber Jar	X															
07-B07794-S0028-A18	TP14	0.8M	Volatile Vial	-															
07-B07794-S0029-A01	TP15	1.5M	Plastic tub	-															

**Notes :** NUMERIC VALUES INDICATE ADDITIONAL SCHEDULING

# Alcontrol Laboratories Ireland

## Test Schedule

**Ref Number: 07-B07794/01**

Client: John Barnett & Associates (Dublin)

Date of Receipt: 13/11/2007

**Sample Type: SOIL**

Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method			KONE																
	Sample Identity	Other ID	P / V																	
07-B07794-S0029-A03	TP15	1.5M	Amber Jar	X																
07-B07794-S0029-A18	TP15	1.5M	Volatile Vial	-																
07-B07794-S0030-A01	TP16	1.5M	Plastic tub	-																
07-B07794-S0030-A03	TP16	1.5M	Amber Jar	X																
07-B07794-S0030-A18	TP16	1.5M	Volatile Vial	-																
07-B07794-S0031-A01	TP17	0.9M	Plastic tub	-																
07-B07794-S0031-A03	TP17	0.9M	Amber Jar	X																
07-B07794-S0031-A18	TP17	0.9M	Volatile Vial	-																
07-B07794-S0032-A01	TP18	0.9M	Plastic tub	-																
07-B07794-S0032-A03	TP18	0.9M	Amber Jar	X																
07-B07794-S0032-A18	TP18	0.9M	Volatile Vial	-																
07-B07794-S0033-A01	TP5	1.7M	Plastic tub	-																
07-B07794-S0033-A03	TP5	1.7M	Amber Jar	2																
07-B07794-S0033-A18	TP5	1.7M	Volatile Vial	-																

**Notes :** NUMERIC VALUES INDICATE ADDITIONAL SCHEDULING

# ALcontrol Laboratories Ireland

## Test Schedule Summary

Ref Number: **07-B07794/01**

Sample Type: **SOIL**

Client: John Barnett & Associates (Dublin)

Location: John Behan Waste Licence Blackhall

Date of Receipt: 13/11/2007

Client Contact: Tom Moore

Client Ref: 3746

\* SUBCONTRACTED TO OTHER LABORATORY / \*\* SAMPLES ANALYSED AT THE CHESTER LABORATORY

SCHEDULE	METHOD	TEST NAME	TOTAL
X	CEN 10:1 Leach	CEN 10:1 Leachate Test	17
X	CV AA	Dissolved Mercury Low Level in CEN 10:1 Leachate	17
X	ELTRA	Total Organic Carbon	17
X	GC	DRO + Mineral Oil by GC	17
X	GC	DRO Interpretation	17
X	GC	BTEX by GC FID	17
X	GCMS	Coronene	17
X	GCMS	PAH EPA (16)	17
X	GCMS	PAH Total (17) GCMS (Solid)	17
X	GCMS	PAH Total (6) GCMS <1.6mg/kg (Solid)	17
X	GCMS	PCB 7 Congeners	17
X	GRAVIMETRIC	Natural Moisture Content	17
X	GRAVIMETRIC	Total Dissolved Solids Gravimetric CEN 10:1	17
X	HPLC	Total Phenols by HPLC in CEN 10:1 Leachate	17
X	ICP MS	Dissolved Antimony Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Arsenic Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Barium Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Cadmium Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Chromium Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Copper Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Lead Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Molybdenum Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Nickel Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Selenium Low CEN 10:1 Leach	17
X	ICP MS	Dissolved Zinc Low CEN 10:1 Leach	17
X	IR	Dissolved Organic Carbon in CEN 10:1 Leachate	17
X	KONE	Chloride in CEN 10:1 Leachate	17
X	KONE	Fluoride in CEN 10:1 Leachate	17
X	KONE	Sulphate in CEN 10:1 Leachate	17
2	CEN 10:1 Leach	CEN 10:1 Leachate Test	1
2	CV AA	Dissolved Mercury Low Level in CEN 10:1 Leachate	1
2	ELTRA	Total Organic Carbon	1
2	GC	DRO + Mineral Oil by GC	1
2	GC	DRO Interpretation	1
2	GC	BTEX by GC FID	1
2	GCMS	Coronene	1
2	GCMS	PAH EPA (16)	1
2	GCMS	PAH Total (17) GCMS (Solid)	1
2	GCMS	PAH Total (6) GCMS <1.6mg/kg (Solid)	1
2	GCMS	PCB 7 Congeners	1
2	GRAVIMETRIC	Natural Moisture Content	1

# ALcontrol Laboratories Ireland

## Test Schedule Summary

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<b>Ref Number: 07-B07794/01</b> Client: John Barnett & Associates (Dublin) Date of Receipt: 13/11/2007	<b>Sample Type: SOIL</b> Location: John Behan Waste Licence Blackhall Client Contact: Tom Moore Client Ref: 3746
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\* SUBCONTRACTED TO OTHER LABORATORY / \*\* SAMPLES ANALYSED AT THE CHESTER LABORATORY

SCHEDULE	METHOD	TEST NAME	TOTAL
2	GRAVIMETRIC	Total Dissolved Solids Gravimetric CEN 10:1	1
2	HPLC	Total Phenols by HPLC in CEN 10:1 Leachate	1
2	ICP MS	Dissolved Antimony Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Arsenic Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Barium Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Cadmium Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Chromium Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Copper Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Lead Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Molybdenum Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Nickel Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Selenium Low CEN 10:1 Leach	1
2	ICP MS	Dissolved Zinc Low CEN 10:1 Leach	1
2	IR	Dissolved Organic Carbon in CEN 10:1 Leachate	1
2	KONE	Chloride in CEN 10:1 Leachate	1
2	KONE	Fluoride in CEN 10:1 Leachate	1
2	KONE	Sulphate in CEN 10:1 Leachate	1

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# ALcontrol Laboratories Ireland

## Table Of Results

**Ref Number: 07-B07794/01**

Client: John Barnett & Associates (Dublin)

Date of Receipt: 13/11/2007

(of first sample)

**Sample Type: SOIL**

Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method	Method Detection Limit	CV AA	ELTRA	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC	GC		
			<-0.0005mg/kg	<0.2%	<1mg/kg	<1mg/kg	n/a	<10ug/kg	<10ug/kg	<10ug/kg	<10ug/kg	<10ug/kg	<10ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	
Sample Identity	Other ID	Dissolved Mercury Low CEN 10:1 Leachate	Total Organic Carbon	Diesel Range Organics	Mineral Oil by GC	DRO Interpretation	Benzene	Toluene	Ethylbenzene	Total Xylene	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene					
		mg/kg	%	mg/kg	mg/kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
07-B07794-S0016	TP1	1.8M	<0.0005	1.2	366	37	See attached	<10	<10	<10	<10	<10	<10	<10	<10	255	347	480	758	10270	2544
07-B07794-S0017	TP2	0.9M	<0.0005	2.0	292	29	See attached	<10	<10	<10	<10	<10	<10	<10	<10	51	15	56	34	196	88
07-B07794-S0018	TP3	1.6M	<0.0005	1.9	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	149	60	147	117	1259	443
07-B07794-S0019	TP4	2.6M	<0.0005	2.5	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	12	7	28	4	42	27
07-B07794-S0020	TP6	1.8M	<0.0005	3.0	1413	283	See attached	<10	<10	<10	<10	<10	<10	<10	<10	299	101	597	1044	3440	1118
07-B07794-S0021	TP7	1.5M	<0.0005	2.8	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	16	14	22	11	140	42
07-B07794-S0022	TP8	1.7M	<0.0005	1.6	354	35	See attached	<10	<10	<10	<10	<10	<10	<10	<10	62	44	109	97	521	296
07-B07794-S0023	TP9	2.5M	<0.0005	1.7	48	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	154	40	116	153	1254	430
07-B07794-S0024	TP10	1.2M	<0.0005	1.7	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	16	2	25	6	38	14
07-B07794-S0025	TP11	1.3M	<0.0005	1.4	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	35	9	49	19	104	42
07-B07794-S0026	TP12	1.5M	<0.0005	1.2	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	136	18	129	62	532	202
07-B07794-S0027	TP13	1.7M	<0.0005	1.2	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
07-B07794-S0028	TP14	0.8M	<0.0005	<0.2	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
07-B07794-S0029	TP15	1.5M	<0.0005	<0.2	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
07-B07794-S0030	TP16	1.5M	<0.0005	<0.2	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
07-B07794-S0031	TP17	0.9M	<0.0005	0.3	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
07-B07794-S0032	TP18	0.9M	<0.0005	0.3	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1
07-B07794-S0033	TP5	1.7M	<0.0005	1.1	<1	<1	See attached	<10	<10	<10	<10	<10	<10	<10	<10	79	23	84	41	516	167

**Notes :** METHOD DETECTION LIMITS ARE NOT ALWAYS ACHIEVABLE DUE TO VARIOUS CIRCUMSTANCES BEYOND OUR CONTROL.

**NDP = NO DETERMINATION POSSIBLE**

Checked By : Paul Barry

Interim  
 Validated

# Alcontrol Laboratories Ireland

## Table Of Results

**Ref Number: 07-B07794/01**

Client: John Barnett & Associates (Dublin)

Date of Receipt: 13/11/2007  
 (of first sample)

**Sample Type: SOIL**

Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore  
 Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method	Method Detection Limit	GCMS																
			Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)+Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(123cd)pyrene	Dibenzo(a,h)anthracene	Benzo(ghi)perylene	Coronene	Total 6 PAHs	Total 16 EPA PAHs	Total 17 PAHs	PCB Congener 28	PCB Congener 52		
07-B07794-S0016	TP1	1.8M	8804	7328	4076	4166	4800	2841	2230	596	382	536	21.2	49876	50412	50412	<1	<1	
07-B07794-S0017	TP2	0.9M	404	362	170	313	578	352	156	62	66	75	<1.6	2903	2978	2978	<1	<1	
07-B07794-S0018	TP3	1.6M	1747	1439	768	1319	1826	1208	522	230	204	201	5.8	11437	11638	11638	<1	<1	
07-B07794-S0019	TP4	2.6M	172	133	239	218	301	167	99	35	42	45	<1.6	1526	1571	1571	<1	<1	
07-B07794-S0020	TP6	1.8M	2421	2034	1006	1340	337	1213	631	272	263	280	7.4	17802	18082	18082	<1	<1	
07-B07794-S0021	TP7	1.5M	151	135	136	159	337	136	67	43	42	23	<1.6	1453	1476	1476	<1	<1	
07-B07794-S0022	TP8	1.7M	994	800	815	531	1010	555	225	132	127	98	3.1	6317	6415	6415	<1	<1	
07-B07794-S0023	TP9	2.5M	1483	1098	840	895	1173	720	467	139	105	114	4.3	9068	9182	9182	<1	<1	
07-B07794-S0024	TP10	1.2M	42	29	18	52	50	21	11	3	2	6	<1.6	329	335	335	<1	<1	
07-B07794-S0025	TP11	1.3M	213	172	146	196	263	147	84	37	17	29	<1.6	1534	1563	1563	<1	<1	
07-B07794-S0026	TP12	1.5M	415	340	242	361	386	206	143	65	46	32	<1.6	3279	3311	3311	<1	<1	
07-B07794-S0027	TP13	1.7M	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.6	<1	<1	<1	<1	<1	
07-B07794-S0028	TP14	0.8M	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.6	<1	<1	<1	<1	<1	
07-B07794-S0029	TP15	1.5M	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.6	<1	<1	<1	<1	<1	
07-B07794-S0030	TP16	1.5M	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.6	<1	<1	<1	<1	<1	
07-B07794-S0031	TP17	0.9M	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.6	<1	<1	<1	<1	<1	
07-B07794-S0032	TP18	0.9M	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.6	<1	<1	<1	<1	<1	
07-B07794-S0033	TP5	1.7M	705	575	357	376	541	315	208	61	70	62	1.9	4118	4180	4180	<1	<1	

**Notes :** METHOD DETECTION LIMITS ARE NOT ALWAYS ACHIEVABLE DUE TO VARIOUS CIRCUMSTANCES BEYOND OUR CONTROL.

**NDP = NO DETERMINATION POSSIBLE**

Checked By : Paul Barry

Interim  
 Validated

# ALcontrol Laboratories Ireland

## Table Of Results

**Ref Number: 07-B07794/01**

Client: John Barnett & Associates (Dublin)

Date of Receipt: 13/11/2007

(of first sample)

**Sample Type: SOIL**

Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method	Method Detection Limit	GCMS	GCMS	GCMS	GCMS	GCMS	GCMS	GCMS	GCMS	GRAVIMETRIC	GRAVIMETRIC	HPLC	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS		
			<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<1ug/kg	<0.1%	<350mg/kg	<0.1mg/kg	<0.01mg/kg	<0.01mg/kg	<0.01mg/kg	<0.004mg/kg	<0.01mg/kg	<0.01mg/kg	<0.01mg/kg
ALcontrol Reference	Sample Identity	Other ID	PCB Congener 101	PCB Congener 118	PCB Congener 153	PCB Congener 138	PCB Congener 180	PCB Total of 7 Congeners	Natural Moisture Content	Total Dissolved Solids in CEN 10:1 Leachate	Total Phenols in CEN 10:1 Leachate	Dissolved Antimony Low	Dissolved Arsenic Low	Dissolved Barium Low	Dissolved Cadmium Low	Dissolved Chromium Low	Dissolved Copper Low					
			07-B07794-S0016	TP1	1.8M	<1	<1	<1	<1	<1	<1	10.4	2800	0.1	0.02	0.04	1.79	<0.004	0.04	0.62		
			07-B07794-S0017	TP2	0.9M	<1	<1	<1	<1	<1	<1	11.2	2040	0.1	0.03	0.33	2.15	<0.004	<0.01	0.45		
			07-B07794-S0018	TP3	1.6M	<1	<1	<1	<1	<1	<1	95.5	3100	0.1	0.05	0.04	3.50	<0.004	<0.01	0.42		
			07-B07794-S0019	TP4	2.6M	<1	<1	<1	<1	<1	<1	26.9	1360	0.1	0.01	0.01	2.92	<0.004	<0.01	0.33		
			07-B07794-S0020	TP6	1.8M	<1	<1	<1	<1	<1	<1	16.5	3060	0.1	0.05	0.04	3.42	<0.004	<0.01	0.33		
			07-B07794-S0021	TP7	1.5M	<1	<1	<1	<1	<1	<1	18.7	2120	0.1	0.02	0.03	3.07	<0.004	<0.01	0.34		
			07-B07794-S0022	TP8	1.7M	<1	<1	<1	<1	<1	<1	13.9	2360	0.1	0.03	0.16	2.51	<0.004	<0.01	0.35		
			07-B07794-S0023	TP9	2.5M	<1	<1	<1	<1	<1	<1	12.7	1120	0.1	0.02	0.04	2.17	<0.004	<0.01	0.18		
			07-B07794-S0024	TP10	1.2M	<1	<1	<1	<1	<1	<1	18.3	2320	0.1	<0.01	0.02	2.80	<0.004	<0.01	0.20		
			07-B07794-S0025	TP11	1.3M	<1	<1	<1	<1	<1	<1	17.5	1700	0.1	<0.01	<0.01	2.27	<0.004	<0.01	0.22		
			07-B07794-S0026	TP12	1.5M	<1	<1	<1	<1	<1	<1	23.4	1460	0.1	<0.01	<0.01	1.93	<0.004	<0.01	0.13		
			07-B07794-S0027	TP13	1.7M	<1	<1	<1	<1	<1	<1	10.0	1120	0.1	<0.01	<0.01	1.85	<0.004	<0.01	0.03		
			07-B07794-S0028	TP14	0.8M	<1	<1	<1	<1	<1	<1	7.9	1100	0.1	<0.01	<0.01	2.05	<0.004	<0.01	0.07		
			07-B07794-S0029	TP15	1.5M	<1	<1	<1	<1	<1	<1	13.4	1160	0.1	<0.01	<0.01	2.18	<0.004	<0.01	0.06		
			07-B07794-S0030	TP16	1.5M	<1	<1	<1	<1	<1	<1	7.5	480	0.1	<0.01	<0.01	1.98	<0.004	<0.01	0.02		
07-B07794-S0031	TP17	0.9M	<1	<1	<1	<1	<1	<1	9.9	600	0.1	<0.01	<0.01	2.24	<0.004	0.14	0.03					
07-B07794-S0032	TP18	0.9M	<1	<1	<1	<1	<1	<1	11.8	680	0.1	<0.01	<0.01	2.19	<0.004	0.14	0.06					
07-B07794-S0033	TP5	1.7M	<1	<1	<1	<1	<1	<1	11.8	940	0.1	0.10	0.04	3.22	0.004	0.13	0.26					

Notes : METHOD DETECTION LIMITS ARE NOT ALWAYS ACHIEVABLE DUE TO VARIOUS CIRCUMSTANCES BEYOND OUR CONTROL.

NDP = NO DETERMINATION POSSIBLE

Checked By : Paul Barry

Interim  
 Validated

# Alcontrol Laboratories Ireland

## Table Of Results

**Ref Number: 07-B07794/01**

Client: John Barnett & Associates (Dublin)

Date of Receipt: 13/11/2007

(of first sample)

**Sample Type: SOIL**

Location: John Behan Waste Licence Blackhall

Client Contact: Tom Moore

Client Ref: 3746

UKAS Accredited [Testing Laboratory] No. 1291	Detection Method	ICP MS		ICP MS		ICP MS		ICP MS		ICP MS		IR	KONE	KONE	KONE
		Method Detection Limit	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS	ICP MS
		<0.01mg/kg	<0.01mg/kg	<0.01mg/kg	<0.01mg/kg	<0.01mg/kg	<0.01mg/kg	<0.01mg/kg	<0.01mg/kg	<0.01mg/kg	<0.01mg/kg	<20mg/kg	<10mg/kg	<1mg/kg	<30mg/kg
Alcontrol Reference	Sample Identity	Other ID	Dissolved Lead Low CEN 10:1 Leach	Dissolved Molybdenum Low CEN 10:1 Leach	Dissolved Nickel Low CEN 10:1 Leach	Dissolved Selenium Low CEN 10:1 Leach	Dissolved Zinc Low CEN 10:1 Leach	Dissolved Organic Carbon in CEN 10:1 Leachate	Chloride in CEN 10:1 Leachate	Fluoride in CEN 10:1 Leachate	Sulphate in CEN 10:1 Leachate				
07-B07794-S0016	TP1	1.8M	<0.01 mg/kg	0.08 mg/kg	0.22 mg/kg	0.03 mg/kg	0.12 mg/kg	92 mg/kg	47 mg/kg	<1 mg/kg	208 mg/kg				
07-B07794-S0017	TP2	0.9M	<0.01 mg/kg	0.07 mg/kg	0.05 mg/kg	0.04 mg/kg	0.29 mg/kg	87 mg/kg	34 mg/kg	3 mg/kg	305 mg/kg				
07-B07794-S0018	TP3	1.6M	<0.01 mg/kg	0.15 mg/kg	0.07 mg/kg	0.02 mg/kg	0.38 mg/kg	78 mg/kg	40 mg/kg	5 mg/kg	906 mg/kg				
07-B07794-S0019	TP4	2.6M	<0.01 mg/kg	0.08 mg/kg	0.02 mg/kg	0.01 mg/kg	0.19 mg/kg	45 mg/kg	21 mg/kg	5 mg/kg	169 mg/kg				
07-B07794-S0020	TP6	1.8M	<0.01 mg/kg	0.12 mg/kg	0.09 mg/kg	0.01 mg/kg	0.32 mg/kg	70 mg/kg	68 mg/kg	3 mg/kg	1532 mg/kg				
07-B07794-S0021	TP7	1.5M	<0.01 mg/kg	0.18 mg/kg	0.05 mg/kg	0.02 mg/kg	0.68 mg/kg	98 mg/kg	26 mg/kg	4 mg/kg	107 mg/kg				
07-B07794-S0022	TP8	1.7M	<0.01 mg/kg	0.15 mg/kg	0.04 mg/kg	0.03 mg/kg	0.02 mg/kg	62 mg/kg	29 mg/kg	3 mg/kg	550 mg/kg				
07-B07794-S0023	TP9	2.5M	<0.01 mg/kg	0.11 mg/kg	0.08 mg/kg	0.04 mg/kg	0.54 mg/kg	28 mg/kg	37 mg/kg	3 mg/kg	7005 mg/kg				
07-B07794-S0024	TP10	1.2M	<0.01 mg/kg	0.23 mg/kg	0.02 mg/kg	0.01 mg/kg	0.14 mg/kg	30 mg/kg	39 mg/kg	4 mg/kg	520 mg/kg				
07-B07794-S0025	TP11	1.3M	<0.01 mg/kg	0.10 mg/kg	0.02 mg/kg	<0.01 mg/kg	0.14 mg/kg	25 mg/kg	35 mg/kg	5 mg/kg	162 mg/kg				
07-B07794-S0026	TP12	1.5M	<0.01 mg/kg	0.02 mg/kg	<0.01 mg/kg	<0.01 mg/kg	0.13 mg/kg	29 mg/kg	22 mg/kg	3 mg/kg	114 mg/kg				
07-B07794-S0027	TP13	1.7M	<0.01 mg/kg	0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	0.17 mg/kg	20 mg/kg	19 mg/kg	2 mg/kg	30 mg/kg				
07-B07794-S0028	TP14	0.8M	<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	0.15 mg/kg	<20 mg/kg	19 mg/kg	2 mg/kg	42 mg/kg				
07-B07794-S0029	TP15	1.5M	<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	0.17 mg/kg	<20 mg/kg	17 mg/kg	3 mg/kg	64 mg/kg				
07-B07794-S0030	TP16	1.5M	<0.01 mg/kg	0.03 mg/kg	<0.01 mg/kg	0.01 mg/kg	0.09 mg/kg	<20 mg/kg	17 mg/kg	2 mg/kg	60 mg/kg				
07-B07794-S0031	TP17	0.9M	<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	<0.01 mg/kg	1.59 mg/kg	<20 mg/kg	18 mg/kg	3 mg/kg	37 mg/kg				
07-B07794-S0032	TP18	0.9M	<0.01 mg/kg	0.02 mg/kg	<0.01 mg/kg	0.01 mg/kg	1.61 mg/kg	<20 mg/kg	16 mg/kg	2 mg/kg	<30 mg/kg				
07-B07794-S0033	TP5	1.7M	<0.01 mg/kg	0.33 mg/kg	0.05 mg/kg	0.04 mg/kg	1.71 mg/kg	42 mg/kg	49 mg/kg	5 mg/kg	226 mg/kg				

**Notes :** METHOD DETECTION LIMITS ARE NOT ALWAYS ACHIEVABLE DUE TO VARIOUS CIRCUMSTANCES BEYOND OUR CONTROL.

**NDP** = NO DETERMINATION POSSIBLE

Checked By : Paul Barry



**Geochem Analytical Services**  
Diesel Range Organics/Mineral Oil

by  
G.C.

Client Name John Barnett & Associates (Dublin)  
Client Ref 3746  
Sample Matrix Soil

Job Number B07794  
Date Extracted/Prepared 20.11.07  
Date Analysed 21.11.07

Separatory Funnel Ext No  
Soxtec Extraction No  
Column Extraction No

Sample number	Sample Identity	Depth	Diesel Range Hydrocarbons (mg/kg)	Mineral Oil (mg/kg)	Interpretation
016	TP1	1.8M	366	37	Possible Highly Degraded Diesel/Possible PAHs
017	TP2	0.9M	292	29	Possible Highly Degraded Diesel/Possible PAHs
018	TP3	1.6M	< 1	< 1	No Identification Possible
019	TP4	2.6M	< 1	< 1	No Identification Possible
020	TP6	1.8M	1413	283	Possible Highly Degraded Diesel
021	TP7	1.5M	< 1	< 1	No Identification Possible
022	TP8	1.7M	354	35	Possible Highly Degraded Diesel/Possible PAHs
023	TP9	2.5M	48	< 1	No Identification Possible
024	TP10	1.2M	< 1	< 1	No Identification Possible
025	TP11	1.3M	< 1	< 1	No Identification Possible
026	TP12	1.5M	< 1	< 1	No Identification Possible
027	TP13	1.7M	< 1	< 1	No Identification Possible
028	TP14	0.8M	< 1	< 1	No Identification Possible
029	TP15	1.5M	< 1	< 1	No Identification Possible
030	TP16	1.5M	< 1	< 1	No Identification Possible
031	TP17	0.9M	< 1	< 1	No Identification Possible
032	TP18	0.9M	< 1	< 1	No Identification Possible
033	TP5	1.7M	< 1	< 1	No Identification Possible

Checked by Mariusz Dolatkowski

**APPENDIX**

## APPENDIX

1. Results are expressed as mg/kg dry weight (dried at 30°C) on all soil analyses except for the following: NRA Leach tests, flash point, and ammoniacal N<sub>2</sub> by the BRE method, VOC, PRO, Cyanide, Acid Soluble Sulphide, SVOC, DRO, PAH, PCB, TPH CWG ,TPH by IR, OFGs and SEM.
2. Samples will be run in duplicate upon request, but an additional charge may be incurred.
3. A sub sample of all samples received will be retained free of charge for one month for soils and one month for waters (sample size permitting), but may then be discarded 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.
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 Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.
6. When requested, an asbestos screen is done in-house on soils and if no fibres are found will be reported as NFD – no fibres detected. If fibres are detected, then identification and quantification is carried out by ALcontrol Technichem or Alcontrol Shutlers in the UK . If a sample is suspected of containing asbestos, then drying and crushing will be suspended on that sample until the asbestos results are known. If asbestos is present, then no analysis requiring dry sample are undertaken.
7. If no separate volatile sample is supplied by the client, the integrity of the data may be compromised if the laboratory is required to create a sub-sample from the bulk sample – similarly, if a headspace is present in the volatile sample.
8. NDP – No Determination Possible due to insufficient/unsuitable sample.
9. Metals in water are performed on a filtered sample, and therefore represent dissolved metals – total metals must be requested separately.
10. A table containing the date of analysis for each parameter is not routinely included with the report, but is available upon request.

Last updated February 2005