APPENDIX C
BOREHOLE AND TRIAL PIT LOGS

Borehole Log

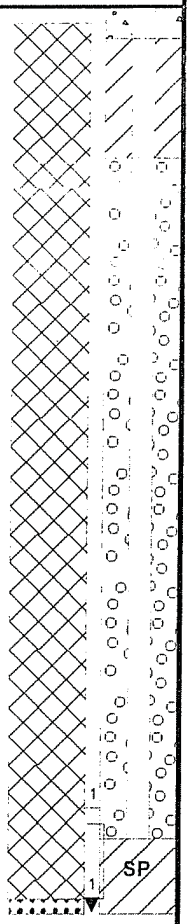
Drilled by AJL Logged by AJL Checked by CAR	Start 02/01/2003 End 02/01/2003	**Equipment, Methods and Remarks** Dando 150 Cable Percussion Rig In tree clearing opposite steel container	Depth from to Diameter Casing Depth 0 00m	Ground Level - Coordinates - National Grid -

Samples and Tests

Depth	Type & No	Records	Date Casing	Time Water
0 30	D 1			
0 50-1 00	B 2			
1 30	D 3			
1 50-1 95 1 50-2 00	SPT C B 4	N=4 (1 1/1.1 1.1)	1 50	
2 50	D 5			
3 00-3 45 3 00-3 50	SPT C B 6	N=5 (1,1/1.1,2.1)	2 50	
4 00	D 7			
4 50-4 85 4 50-5 00	SPT C B 8	51 (1.1/1.7.43 for 50mm)	3.20	
5 40 5 50	W 10 D 9			
6 00-6.03 6 00	SPT C D 11	(75 for 25mm)	3:20	5:40

Strata

Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
Grass overlying TOPSOIL	0.10		
MADE GROUND. Soft brown sandy gravelly CLAY Gravels are subangular to subrounded, fine to coarse of ash, brick, stone, wood, metal and occasionally rubber.	(1 10)		
MADE GROUND. Soft orange brown sandy gravelly CLAY Gravels are angular to sub angular, fine to coarse of sandstone, mudstone, brick, various other lithologies and occasional wood	1 20		
	(4 70)		
Fine brown SANDSTONE recovered as gravels and cobbles.	5.90		
EXPLORATORY HOLE ENDS AT 6 00 m	6.00		



Depth	Type & No	Records	Date Casing	Time Water

Groundwater

No.	Struck (m)	Post strike behaviour	Depth sealed (m)
1	5 90	Rose to 5 40 m after 20 minutes.	-

Depth Related Remarks
From to (m)

Chiselling
Depths (m)
4 80 -5 10 45 mins Chisel

Notes: For explanation of symbols and abbreviations see key sheet All depths and reduced levels in metres Stratum thickness given in brackets in depth column

Scale 1 50 (c) MESG HBIII (275) 07/02/2003 12:41:55 AGS

Project New Mills, Derbyshire
Project No. 42062
Carried out for

Borehole
BH1
Sheet 1 of 1

Borehole Log

Drilled by AJL Logged by AJL Checked by CAR	Start 03/01/2003 End 03/01/2003	**Equipment, Methods and Remarks** Dando 150 Cable Percussion Rig Infront of main wooded area opposite steel container	Depth from to Diameter Casing Depth	Ground Level - Coordinates - National Grid -

Samples and Tests

Depth	Type & No	Records	Date Casing	Time Water
0 50-1 00	B 1			
1 30	D 2			
1 50-1 88 1 50-2 00	SPT C B 3	N=4 (1/1 1 1 1)	1 50	
2 50	D 4			
3 00-3 45 3 00-3 50	SPT C B 5	N=8 (1,1/2 1,2,3)	1 50	
4 00	D 6			
4 50-4 95 4 50-5 00	SPT C B 7	N=13 (1 2/1,2,4,6)	4 50	
5 50 5 50	D 8 W 9			
6 00-6 45 6 00-6 50	SPT C B 10	N=12 (2 1/2 3,5,2)	6 00	5 50
7 00	D 11			
7 50-7 95 7 50-8 00	SPT C B 12	N=14 (1 1/2 2,4,6)	7 50	5 50

Depth	Type & No	Records	Date Casing	Time Water

Strata

Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
Grass overlying TOPSOIL	0 10		
MADE GROUND: Soft to firm slightly orange brown to brown sandy gravelly cobbly CLAY Gravels and cobbles are subangular to subrounded fine to coarse of ash, brick, sandstone, concrete and occasional wood and glass			
3 00-3 50 m Becoming firm	(7 50)		
4.50-6 50 m Medium dense silty cobbly sands and gravels of sandstone and occasional brick			
Fine grey SANDSTONE recovered as gravels and cobbles	7 60		SP
	(0 40)		
EXPLORATORY HOLE ENDS AT 8 00 m	8 00		

Groundwater

No.	Struck (m)	Post strike behaviour	Depth sealed (m)
1	5 70	Rose to 5 50 m after 20 minutes	-

Depth Related Remarks
From to (m)

Chiselling
Depths (m)

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres Stratum thickness given in brackets in depth column

Scale 1:50

(c) MESG HBIII (275) 07/02/2003 12:42:05

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Borehole

BH2

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 06/01/2003 End 06/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 1 10 m Length 3 00 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
			1 Grass overlying dark brown organic TOPSOIL with numerous rootlets.	0.10		
			2 MADE GROUND: Quarry fill. Yellow orange to light brown sandy gravelly COBBLES and BOULDERS of sandstone.	(2.90)		
2 90	B 1		EXPLORATORY HOLE ENDS AT 3 00 m 3 00 m Hydraulic arm broke. Trial pit terminated.	3.00		

Depth	Type & No.	Records Date

Groundwater

No.	Struck (m)	Post	Strike	Behaviour
None observed (see Key Sheet)				

Remarks

In south west corner of site beside the elevated land next to house no 23 garden

Stability Unstable at depth

Shoring None

Weather Clear and very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column

Scale 1:25

(c) MESG HBIII (275) 07/02/2003 12:43:08

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Trial Pit

TP1

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 06/01/2003 End 06/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 1 10 m Length 2 80 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, *Level* (Thickness)	Legend	Backfill/ Instrument
			1 Grass and bushes overlying dark brown organic TOPSOIL with numerous rootlets.	0.10		
			2 Loose to medium dense orange brown gravelly medium grained SAND. Gravels are angular to sub rounded fine to coarse of sandstone.	(1.70)		
0 70	B 1					
			3 MADE GROUND. Quarry fill. Orange brown angular fine to coarse sandy COBBLES and BOULDERS of sandstone. Occasional clay inclusions.	1.80		
				(1.20)		
			EXPLORATORY HOLE ENDS AT 3 00 m 3 00 m Trial pit terminated due to collapse	3 00		
Depth	Type & No.	Records Date				

Groundwater	Remarks	
No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)	At base of elevated ground near cliff on south end of site	**Stability** Unstable at depth **Shoring** None **Weather** Clear and very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:44:54	**Project** New Mills, Derbyshire **Project No.** 42062 **Carried out for**	**Trial Pit** **TP2** Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 06/01/2003 End 06/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 1 00 m Length 3 00 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description		Depth, *Level* (Thickness)	Legend / Backfill/ Instrument
			1 Grass overlying dark brown organic TOPSOIL with numerous rootlets			
			2 MADE GROUND: Quarry fill. Brown to orange brown cobbly bouldery angular to sub angular fine to coarse SAND and GRAVELS of sandstone. Cobbles and boulders are angular fine to very coarse of sandstone. Rare plastic bag		0.25	
0 60	D 1				(0 75)	
			3 MADE GROUND: Quarry fill. Orange to brown sandy gravelly COBBLES and BOULDERS of sandstone		1.00	
1 40	B 2					
					(2 00)	
3 00	B 3		EXPLORATORY HOLE ENDS AT 3 30 m	3 00-3 30 m Clay inclusions identified	3 00	
3 20	B 4			3 30 m Trial pit terminated due to complete collapse		

Depth	Type & No.	Records Date

Groundwater

No.	Struck (m)	Post Strike	Behaviour
None observed (see Key Sheet)			

Remarks

At corner of cliff by heather and bushes Opposite trees in house no 23 garden

Stability Unstable at depth

Shoring None

Weather Clear and very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres Stratum thickness given in brackets in depth column

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12 45 09

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Trial Pit

TP3

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 06/01/2003 End 06/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 90 m Length 2 60 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, *Level* (Thickness)	Legend	Backfill/ Instrument
			1 Grass overlying dark brown organic TOPSOIL with numerous rootlets.			
			2 MADE GROUND. Quarry fill. Yellow brown angular to sub angular fine to coarse sandy GRAVELS and COBBLES of sandstone with occasional clay inclusions.	0.20		
				(1.90)		
			EXPLORATORY HOLE ENDS AT 2 10 m — 2 10 m Trial pit terminated due to collapse	2 10		

Depth	Type & No.	Records Date

Groundwater

No.	Struck (m)	Post Strike	Behaviour
None observed (see Key Sheet)			

Remarks
North of TP1 at base of elevated land beside vicarage garden

Stability Unstable at depth

Shoring None

Weather Clear and very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:45:17 AGS

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Trial Pit

TP4

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 06/01/2003 End 06/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 1.00 m Length 3.00 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
			1 Grass overlying dark brown organic TOPSOIL with numerous rootlets.	0.00 (0.30)		
0.40	B 1		2 MADE GROUND. Brown to orange brown very sandy angular to sub angular fine to coarse GRAVEL of sandstone 3 with occasional concrete.	0.30 0.45		
			MADE GROUND: Dark brown sandy very gravelly very cobbly bouldery CLAY. Gravels, cobbles and boulders are angular to sub rounded fine to coarse of sandstone with rare brick.	(2.05)		
2.50	B 2		4 MADE GROUND: Dark brown sandy GRAVELS with occasional clay inclusions. Gravels are sub angular fine to coarse of sandstone and localised pottery	2.50		
2.80	D 3			(0.70)		
3.10	B 4					
			EXPLORATORY HOLE ENDS AT 3.20 m 3.20 m Trial pit terminated due to complete collapse. Saw glimpse of possible quarry fill	3.20		

Depth	Type & No.	Records Date

Groundwater

No. Struck (m)	Post Strike	Behaviour
None observed (see Key Sheet)		

Remarks
In narrow path between cliff and elevated land beside vicarage garden

Stability Stable

Shoring None

Weather Clear and very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:45:25

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Trial Pit
TP5
Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 06/01/2003 End 06/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 1 00 m Length 3 00 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, *Level* (Thickness)	Legend	Backfill/ Instrument
			1 Grass overlying dark brown organic TOPSOIL with numerous rootlets.	0.10		
			2	0.20		
			3 Dark brown slightly sandy SOIL with occasional to frequent clay inclusions.			
			MADE GROUND. Loose brown to dark brown sandy gravelly cobbly slightly organic SOIL. Gravels and cobbles and angular to subangular, fine to coarse of brick and sandstone			
1 00	B 1					
				(3 30)		
2 50	D 2					
			2 60-3 00 m Large cobbles of brick and concrete			
			3.00-3 20 m Occasional coarse gravels of pottery			
3 25	D 3		3 25-5 00 m Occasional to frequent soft to firm orange brown clay inclusions. Occasional metal strips			
				3.50		
3 60	D 4		4 MADE GROUND: Firm orange brown slightly sandy gravelly cobbly CLAY. Gravels and cobbles are angular to sub angular fine to very coarse of brick and concrete with occasional sandstone and metal strips			
				(1.50)		
Depth	Type & No.	Records Date	EXPLORATORY HOLE ENDS AT 5 00 m			

Groundwater	Remarks	
No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)	In corner just outside woods on corner of vicarage garden	**Stability** Stable **Shoring** None **Weather** Clear and very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres Stratum thickness given in brackets in depth column	Project New Mills, Derbyshire Project No. 42062 Carried out for	**Trial Pit** **TP6** Sheet 1 of 1

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:45:33 AGS

Trial Pit Log

Logged by CAR Checked by PT	Start 03/01/2003 End 03/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 80 m Length 3 00 m	Ground Level - Coordinates - National Grid -

Samples and Tests

Depth	Type & No.	Date Records
0 20	D 1	2 samples
0 35	D 2	

Strata

Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
1 Moss and grass overlying dark brown slightly organic TOPSOIL with numerous rootlets	0 10		
2 MADE GROUND: Loose orange brown sandy gravelly cobbly bouldery SOIL. Gravels and cobbles are angular to subangular fine to very coarse of brick, concrete, slate and textiles. 0 20 m Layer of ash rich soil	0 35		
3 MADE GROUND: Loose dark brown silty sandy gravelly cobbly bouldery organic SOIL. Localised pocket of blue dye in plastic and rusted metal container.	(2 65)		
EXPLORATORY HOLE ENDS AT 3 00 m. 3 00 m Rare asbestos fibres identified. Trial pit terminated and carefully reinstated.	3.00		

Depth	Type & No.	Records Date

Groundwater
No. Struck Post Strike Behaviour (m)
None observed (see Key Sheet)

Remarks
Down from TP8

Stability Stable
Shoring None
Weather Grey, sleet and cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:45:41

Project New Mills, Derbyshire
Project No. 42062
Carried out for

Trial Pit
TP7
Sheet 1 of 1

PRELIMINARY

Trial Pit Log

Logged by car	Start 03/01/2003	Equipment and Methods	Dimensions and Orientation	Ground Level -
Checked by	End 03/01/2003	Fermec 860	Width 0 70 m Length 1 80 m	Coordinates - National Grid -

Samples and Tests

Depth	Type & No.	Date Records
0 50	B 1	
1 00	D 2	

Strata

Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
1 Loose dark brown sandy gravelly cobbly TOPSOIL. Gravels and cobbles are angular to sub angular fine to coarse of sandstone and brick			
2 MADE GROUND: Soft brown clayey sandy gravelly cobbly TOPSOIL. Gravels and cobbles are angular medium to very coarse of coal, brick, and concrete. 0 35 m Layer of brick and slate fragments 0 50 m Fine band of coal	0.20 (0 80)		
3 MADE GROUND: Loose brown slightly silty gravelly cobbly fine to coarse SAND. Gravels and cobbles are angular to subangular fine to coarse of brick, concrete, coal and plastic. Slight hydrocarbon odour. 1 20 m Occasional asbestos cement tiles and asbestos fibres identified. Fibres in pit are slightly damp although dry in places. Trial pit terminated and carefully reinstated	1 00 1 20		
EXPLORATORY HOLE ENDS AT 1 20 m			

Depth	Type & No.	Records Date

Groundwater

No.	Struck	Post Strike	Behaviour (m)
None observed (see Key Sheet)			

Remarks

In wooded area,down from TP13

Stability Stable

Shoring None

Weather Grey, sleet, very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:45 49

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Trial Pit

TP8

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 03/01/2003 End 03/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 80 m Length 2 50 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
			1 Grass overlying dark brown organic TOPSOIL.	0 10		
			2 MADE GROUND: Soft to firm orange brown sandy gravelly cobbly CLAY. Gravels and cobbles are sub angular fine 3 to coarse of sandstone.	0 25		
			MADE GROUND: Loose dark brown slightly silty gravelly cobbly SAND. Gravels and cobbles are angular to platy of slate, sandstone, concrete and brick. Occasional metal and frequent clay lenses.	(4.25)		
2 50	B 1					
3 00	D 2					
3 50	B 3					
4 30	D 4					
			EXPLORATORY HOLE ENDS AT 4 50 m	4.50		

Depth	Type & No.	Records Date

Groundwater

No. Struck Post Strike Behaviour (m)

None observed (see Key Sheet)

Remarks

On the edge of wooded area, opposite cliff and approximately 15m down from container

Stability Stable

Shoring None

Weather Grey, sleet and very

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column

Scale 1:25

(c) MESG HBIII (275) 07/02/2003 12:45:57

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Trial Pit

TP9

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 06/01/2003 End 06/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 75 m Length 2 10 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description		Depth, *Level* (Thickness)	Legend / Backfill/ Instrument
			1 Grass overlying dark brown slightly sandy organic TOPSOIL. Localised fine to coarse gravels of white pottery at southern end of trial pit.		0.25	
0 35	D 1		2 Brown to dark brown subangular to subrounded fine to coarse SAND and GRAVEL. Gravels are angular to sub 3 rounded fine to coarse of sandstone	0 35-0 40 m Slightly clayey	0.40	
			MADE GROUND. Quarry fill. Slightly sandy clayey angular to sub angular fine to coarse GRAVELS, COBBLES AND BOULDERS of sandstone with occasional brick and schist.		(1 10)	
1 00	B 2					
			EXPLORATORY HOLE ENDS AT 1 50 m	1 50 m Trial pit terminated due to collapse	1.50	

Depth	Type & No.	Records Date

Groundwater	Remarks	
No. Struck Post Strike Behaviour (m)	Beside cliff opposite TP9	**Stability** Unstable at depth
None observed (see Key Sheet)		**Shoring** None
		Weather Clear and very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column	Project New Mills, Derbyshire	Trial Pit
Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12 43 16	Project No. 42062 Carried out for	**TP10** Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 03/01/2003 End 03/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 60 m Length 2 40 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, *Level* (Thickness)	Legend	Backfill/ Instrument
			1 Grass overlying loose dark brown gravelly cobbly medium grained SAND. Gravels and cobbles are angular to subangular fine to coarse of sandstone	(0 50)		
0 40	D 1			0 50		
			2 MADE GROUND: Quarry fill Yellow orange brown angular to subangular fine to very coarse sandy GRAVELS and COBBLES of sandstone	(1.70)		
			EXPLORATORY HOLE ENDS AT 2 20 m — 2 20 m Trial pit terminated due to collapse	2.20		

Depth	Type & No.	Records Date

Groundwater	Remarks	
No. Struck Post Strike Behaviour (m)	By broken glass beside container	**Stability** Unstable at depth
None observed (see Key Sheet)		**Shoring** None
		Weather Grey sleet.very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres Stratum thickness given in brackets in depth column	Project New Mills. Derbyshire	Trial Pit
Scale 1 25 (c) MESG HBIII (275) 07/02/2003 12 43:24	Project No. 42062 Carried out for	**TP11** Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 03/01/2003 End 03/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0.60 m Length 2.40 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, *Level* (Thickness)	Legend	Backfill/ Instrument
0.50	D 1		1 Grass overlying loose sandy TOPSOIL with numerous rootlets	0.15		
			2 MADE GROUND: Dark brown gravelly cobbly SAND. Gravels and cobbles are angular to platy of sandstone, brick and asbestos cement tiles. Trial pit terminated and carefully reinstated.	0.40		
			EXPLORATORY HOLE ENDS AT 0.50 m			

Depth	Type & No.	Records Date

Groundwater		Remarks	Stability Stable
No. Struck	Post Strike (m)	On outskirts of trees opposite corner of vicarage garden	Shoring None
None observed (see Key Sheet)			Weather Grey, sleet,very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12 43 31

Project	New Mills, Derbyshire
Project No.	42062
Carried out for	

Trial Pit

TP12

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 03/01/2003 End 03/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0.60 m Length 2.70 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description		Depth, Level (Thickness)	Legend / Backfill/ Instrument
			1 Grass overlying loose dark brown sandy gravelly cobbly TOPSOIL. Gravels and cobbles are subangular to subrounded of sandstone.		0.20	
			2 3 MADE GROUND:Loose orange brown gravelly cobbly bouldery SAND. Gravels and cobbles are fine to very coarse subrounded to platy of sandstone, brick and concrete. Rare metal wire.		0.30	
			MADE GROUND: Loose dark brown very sandy gravelly very cobbly CLAY. Gravels and cobbles are sub angular to sub rounded fine to coarse of sandstone, coal and occasional to rare brick.		(2.70)	
2.00	B 1					
3.00	D 2		4 MADE GROUND: Soft dark brown very sandy gravelly cobbly CLAY. Gravels and cobbles are angular to subrounded of concrete, sandstone and numerous brick. Localised ash and clinker.	3.00-3.10 m Localised slate fragments. Trial pit becoming unstable. 3.10 m Trial pit collapsed	3.00	
			EXPLORATORY HOLE ENDS AT 3.10 m		3.10	

Depth	Type & No.	Records Date

Groundwater	Remarks	
No. Struck (m)	Post Strike	Behaviour
None observed (see Key Sheet)	Approximately 3m away from TP12	

Stability Unstable at depth

Shoring None

Weather Grey, sleet, very cold

Notes: For explanation of symbols and abbrevialions see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:43:39

Project	New Mills, Derbyshire
Project No.	42062
Carried out for	

Trial Pit

TP12A

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 03/01/2003 End 03/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 60 m Length 1 70 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description		Depth, *Level* (Thickness)	Legend / Backfill/ Instrument
			1 MADE GROUND: Grass overlying loose dark brown slightly sandy gravelly cobbly bouldery SOIL. Gravels, cobbles and boulders are fine to coarse angular to subangular of sandstone, concrete, brick, wood, bedsprings and plastic piping.		(1 20)	
1 00	B 1			1.00-1 20 m Whole and fragments of asbestos cement slates. Trial pit terminated and carefully reinstated.		
			EXPLORATORY HOLE ENDS AT 1 20 m		1.20	

Depth	Type & No.	Records Date

Groundwater		Remarks	Stability Stable
No. Struck (m)	Post Strike Behaviour	In front of house no's 9 & 10	Shoring None
None observed (see Key Sheet)			Weather Grey, sleet, very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column	Project New Mills, Derbyshire	Trial Pit
Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:43:47 AGS	Project No. 42062 Carried out for	TP13 Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 03/01/2003 End 03/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0.72 m Length 2.60 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, *Level* (Thickness)	Legend	Backfill/ Instrument
			1 Grass overlying sandy gravelly TOPSOIL. Gravels are fine to coarse angular to subangular of brick and concrete	(1.00)		
			2 MADE GROUND. Soft to firm orange brown sandy gravelly cobbly CLAY. Gravels and cobbles are fine to coarse angular to subangular of brick, concrete, coal, wood, and metal.	1.00		
2.00	B 1					
3.00	D 2			(4.00)		
4.00	B 3		4.00 m Becoming very sandy			
Depth	Type & No.	Records Date	EXPLORATORY HOLE ENDS AT 5.00 m			

Groundwater No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)	Remarks 5m from TP13	Stability Stable Shoring None Weather Grey, sleet.very cold
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:43:54 AGS	Project New Mills, Derbyshire Project No. 42062 Carried out for	Trial Pit **TP13A** Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 02/01/2003 End 02/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 80 m Length 2 50 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description		Depth, *Level* (Thickness)	Legend / Backfill/ Instrument
			1 Loose dark brown sandy gravelly TOPSOIL with occasional brick and sandstone boulders		(1 00)	
0 80	B 1					
			EXPLORATORY HOLE ENDS AT 1 00 m	1 00 m Old boiler with fiberglass insulation and asbestos lagging Trial pit terminated and carefully reinstated	1 00	

Depth	Type & No.	Records Date

Groundwater

No Struck (m)	Post Strike	Behaviour
None observed (see Key Sheet)		

Remarks
In front of house no's. 7 & 8

Stability Stable

Shoring None

Weather Clear skies,very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres Stratum thickness given in brackets in depth column

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:44:02

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Trial Pit

TP14

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 02/01/2003 End 02/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 60 m Length 2 20 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
0 10	D 1		1 Grass overlying loose dark brown slightly organic TOPSOIL with numerous rootlets	0 20		
0 50	B 2		2 MADE GROUND: Firm orange brown sandy gravelly cobbly CLAY. Gravels and cobbles are angular to sub angular fine to coarse of sandstone and brick. Occasional concrete.	(1 50)		
1 70	B 3		3 MADE GROUND: Loose dark brown sandy gravelly cobbly SOIL with occasional clay pockets. Gravels and cobbles are angular to subangular of sandstone. Occasional brick and reinforced concrete.	1 70		
2 00	D 4		2 00-2 10 m Cream coloured crumbly substance. Odour similar to mothballs.	(1 30)		
			4 MADE GROUND: Soft sandy gravelly cobbly CLAY with localised areas of cream substance.	3 00		
			4 00-5 30 m Becoming more cobbly. Cobbles are fine to coarse angular to subangular of brick	(2 30)		
			Continued next sheet			
Depth	Type & No.	Records Date				

Groundwater	Remarks	
No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)	Between trees opposite container	**Stability** Stable **Shoring** None **Weather** Clear & very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:44:09	Project New Mills, Derbyshire Project No. 42062 Carried out for	**Trial Pit** **TP15** Sheet 1 of 2

Trial Pit Log

Logged by CAR Checked by PT	Start 02/01/2003 End 02/01/2003	Equipment and Methods	Dimensions and Orientation Width 0.60 m Length 2.20 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, *Level* (Thickness)	Legend	Backfill/ Instrument
			EXPLORATORY HOLE ENDS AT 5.30 m	5.30		
Depth	Type & No.	Records Date				

Groundwater

No.	Struck (m)	Post Strike	Behaviour
None observed (see Key Sheet)			

Remarks
Between trees opposite container

Stability Stable

Shoring None

Weather Clear & very cold

Notes: For explanation of symbols and abbreviations see key sheet All depths and reduced levels in metres Stratum thickness given in brackets in depth column

Scale 1:25

(c) MESG HBIII (275) 07/02/2003 12:44:13

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Trial Pit

TP15

Sheet 2 of 2

Trial Pit Log

Logged by CAR Checked by PT	Start 02/01/2003 End 02/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 80 m Length 2 60 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, *Level* (Thickness)	Legend	Backfill/ Instrument
			1 Loose dark brown sandy gravelly cobbly TOPSOIL. Gravels and cobbles are angular to subangular of sandstone and brick			
0.25	D 1		2 MADE GROUND: Loose cream and brown medium grained gravely SAND. Gravels are fine to coarse angular to subangular of sandstone. Frequent strips of metal.	0.20		
				(1 10)		
1.20	D 2		1 10-1 30 m Metal strips are rusted			
			3 MADE GROUND: Loose brown clayey gravelly cobbly bouldery SAND. Gravels cobbles and boulders are sandstone, brick, brick fragments and metal	1.30		
				(0 70)		
			4 MADE GROUND. Quarry fill. Orange brown fine to very coarse angular to subangular sandy GRAVELS and COBBLES of sandstone	2 00		
			3.00-4 00 m Occasional slabs of sandstone	(2.00)		
			EXPLORATORY HOLE ENDS AT 4 00 m	4 00		

Depth	Type & No.	Records Date

Groundwater	Remarks	
No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)		**Stability** Unstable at depth **Shoring** None **Weather** Clear skies,very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.	Project New Mills, Derbyshire Project No. 42062 Carried out for	**Trial Pit** **TP16** Sheet 1 of 1

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:44:23 AGS

Trial Pit Log

Logged by CAR Checked by PT	Start 02/01/2003 End 02/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 73 m Length 2 10 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata		
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend / Backfill/ Instrument
0 25	D 1		1 Loose dark brown slightly sandy gravelly cobbly TOPSOIL with occasional clay pockets. Gravels and cobbles are angular to subangular of sandstone and brick. Occasional metal pipe	(0 60)	
			2 MADE GROUND: Quarry fill. Yellow orange medium to very coarse angular to sub angular gravelly COBBLES and BOULDERS of sandstone	0 60 (0 65)	
			EXPLORATORY HOLE ENDS AT 1 25 m — 1 25 m Trial pit terminated due to collapse	1 25	

Depth	Type & No.	Records Date

Groundwater			Remarks	Stability Unstable at depth
No	Struck (m)	Post Strike Behaviour	By big tree, close to borehole 2	Shoring None
None observed (see Key Sheet)				Weather Clear skies,very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column

Scale 1:25 (c) MESG HBIII (275). 07/02/2003 12:44:31

Project	New Mills, Derbyshire
Project No.	42062
Carried out for	

Trial Pit

TP17

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 02/01/2003 End 02/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 60 m Length 2 10 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata		
Depth	Type & No.	Date Records	Description	Depth, *Level* (Thickness)	Legend / Backfill/ Instrument
0 15	D 1	2 samples	1 Loose dark brown slightly organic gravelly TOPSOIL 2 Gravels are fine to coarse angular to sub angular of sandstone. Laid as a base for container	0 10 0.25	
			3 Loose dark brown slightly silty sandy gravelly cobbly TOPSOIL Gravels and cobbles are angular to sub angular of sandstone with occasional brick fragments and plastic 0 40-0 70 m Layer of concrete Possible foundation for previous buildings MADE GROUND: Quarry fill. Yellow orange fine to medium angular to subangular gravelly COBBLES and BOULDERS of sandstone	(1 85)	
2 10	D 2		4 MADE GROUND: Brown silty gravelly cobbly SAND Gravels and cobbles are fine to coarse, angular to subangular of sandstone. 2 70-3 95 m Becoming clay rich	2 10 (1 85)	
			EXPLORATORY HOLE ENDS AT 3 95 m	3 95	

Depth	Type & No.	Records Date

Groundwater	Remarks	
No. Struck Post Strike Behaviour (m)	By steel container	**Stability** Unstable at depth
None observed (see Key Sheet)		**Shoring** None
		Weather Clear skies,very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres Stratum thickness given in brackets in depth column

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:44:39

Project	New Mills, Derbyshire
Project No.	42062
Carried out for	

Trial Pit

TP18

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 02/01/2003 End 02/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 80 m Length 2 00 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instrument
			1 Loose dark brown friable gravelly cobbly TOPSOIL. Gravels and cobbles are angular to subangular fine to coarse of sandstone and red brick.	(0 30)		
			2 MADE GROUND: Quarry fill. Yellow orange medium to very coarse angular to subangular gravelly COBBLES and BOULDERS of sandstone.	0 30		
				(2 00)		
			EXPLORATORY HOLE ENDS AT 2 30 m 2 30 m Digger scraping on hardstanding. Possible bedrock	2 30		
Depth	Type & No.	Records Date				

Groundwater			Remarks	Stability Unstable at depth
No.	Struck (m)	Post Strike Behaviour		Shoring None
None observed (see Key Sheet)				Weather Clear skies,very cold

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:44:47

Project	New Mills, Derbyshire
Project No.	42062
Carried out for	

Trial Pit

TP19

Sheet 1 of 1

Trial Pit Log

Logged by CAR Checked by PT	Start 02/01/2003 End 02/01/2003	Equipment and Methods Fermec 860	Dimensions and Orientation Width 0 70 m Length 2 10 m	Ground Level - Coordinates - National Grid -

Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description		Depth, *Level* (Thickness)	Legend / Backfill/ Instrument
			1 Grass overlying GRAVEL bedded on concrete		0 05	
			2 Loose dark brown organic slightly sandy gravelly cobbly TOPSOIL with numerous rootlets.		0 20	
			3 MADE GROUND: Quarry fill. Medium to very coarse angular to sub angular gravelly COBBLES and BOULDERS of sandstone. Occasional angular brick and pottery fragments		(1 90)	
			EXPLORATORY HOLE ENDS AT 2 10 m	2 10 m Digger scraping on hard standing Possible bedrock	2.10	

Depth	Type & No.	Records Date

Groundwater

No. Struck (m)	Post Strike	Behaviour
None observed (see Key Sheet)		

Remarks

Stability Unstable at depth

Shoring None

Weather Clear skies and very

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column

Scale 1:25 (c) MESG HBIII (275) 07/02/2003 12:45 02

Project New Mills, Derbyshire

Project No. 42062

Carried out for

Trial Pit

TP20

Sheet 1 of 1

APPENDIX D

GAS AND GROUNDWATER MONITORING RESULTS

Site :	New Mills, North Derbyshire		
Location No:	42062	Carried out by:	RL/CA
Date:	15/01/03	Day:	Wednesday
Weather:	Cloudy, cool		
Pressure Trend: (If Known)	Low		

Sheet 1 of 1

	LMS	GF60
Serial Number	1147	3244
Last Service Date	26/07/02	01/08/02
Last Gas Check Date		

			Landfill Monitoring System (LMS)					Flowmeter (GF 60)					
Borehole Number	Time (24 Hr)	SWL (mbgl)	CH_4 (%v/v)	CO_2 (%v/v)	O_2 (%v/v)	H_2S (%v/v)	Pressure (mb)	Inflow / Outflow	Average (l/hr)	Max (l/hr)	Min (l/hr)	Differential Pressure (mb)	Comments
1	13:30	5.20	0.0	0.1	19.7	0.0	995	NA	0	2.8	-2.2	0	Base: 5.57
2	13:45	5.49	0.0	0.1	20.5	0.0	996	NA	0.6	3.2	-1.3	1	Base: 7.54

Site :	New Mills, North Derbyshire		
Location No:	42062	Carried out by:	CAR
Date:	20/01/03	Day:	Monday
Weather:	Grey and raining		
Pressure Trend: (If Known)	Low		

Sheet 1 of 1

	LMS	GF60
Serial Number	1147	3244
Last Service Date	26/07/02	01/08/02
Last Gas Check Date		

			Landfill Monitoring System (LMS)					Flowmeter (GF 60)					
Borehole Number	Time (24 Hr)	SWL (mbgl)	CH_4 (%v/v)	CO_2 (%v/v)	O_2 (%v/v)	H_2S (%v/v)	Pressure (mb)	Inflow / Outflow	Average (l/hr)	Max (l/hr)	Min (l/hr)	Differential Pressure (mb)	Comments
1		5.23	0.0	1.0	18.0	0.0	963	NA	0.7	3.0	-1.4	2	
2		5.48	0.0	0.4	18.8	0.0	961	NA	1.1	2.9	-1.8	1	

Comments:

Notes:

1. LMS detects CH_4 and CO_2 using infra-red detector, H_2S and O_2 with electrochemical sensors.
2. l/h : Litres per hour. Average flow is over 180 seconds.
3. %v/v: Volume of gas expressed as a percentage volume in air.
4. SWL: Standing water level (depth below ground level - unless stated otherwise)

Site :	New Mills, North Derbyshire		
Location No:	42062	Carried out by:	RL
Date:	31/01/03	Day:	Friday
Weather:	Cloudy, sunny spells, cold		
Pressure Trend: (If Known)	High, falling		

Sheet 1 of 1

	LMS	GF60
Serial Number	1175	3244
Last Service Date	21/01/03	01/08/02
Last Gas Check Date		

			Landfill Monitoring System (LMS)					Flowmeter (GF 60)					
Borehole Number	Time (24 Hr)	SWL (mbgl)	CH_4 (%v/v)	CO_2 (%v/v)	O_2 (%v/v)	H_2S (%v/v)	Pressure (mb)	Inflow / Outflow	Average (l/hr)	Max (l/hr)	Min (l/hr)	Differential Pressure (mb)	Comments
BH1	14:30	5.20	0.0	0.8	17.9	0.0	1002	NA	-0.2	0.1	-0.6	0	
BH2	14:45	5.48	0.0	0.2	20.0	0.0	1001	NA	0.0	0.5	-0.5	0	

Comments:

Notes:

1. LMS detects CH_4 and CO_2 using infra-red detector, H_2S and O_2 with electrochemical sensors.
2. l/h : Litres per hour. Average flow is over 180 seconds.
3. %v/v: Volume of gas expressed as a percentage volume in air.
4. SWL: Standing water level (depth below ground level - unless stated otherwise)

APPENDIX E
SOIL CHEMICAL ANALYSIS RESULTS

TEST REPORT
SOIL SAMPLE ANALYSIS

1252

TES Report No. EFS/030119

Site: New Mills, Derbyshire

C L Associates
Unit 18
Deeside Industrial Estate
Welsh Road
Deeside
CH5 2LR

The 12 samples described in this report were scheduled for analysis by TES Bretby on Monday, 13 January 2003. The analysis was completed by Monday, 27 January 2003.

Tests marked as 'not UKAS accredited' and any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by TES Bretby laboratories.

The following tables are contained in this report:

Table 1 Main Analysis Results
Sample Chain of Custody Record (2 Pages)
Table of Report Notes (1 Page)

On behalf of
TES Bretby : J. Hannah
J Hannah Project Co-ordinator

Date of Issue: 27/01/03

Tests marked 'not UKAS accredited' in this report are not included in the UKAS Accreditation Schedule for our laboratory.

TES Bretby accepts no responsibility for the sampling related to the above results

TES Bretby, P.O. Box 100, Burton-on-Trent, DE15 0XD Telephone: 01283 554400 Fax: 01283 554422

TES Bretby is a division of Environmental Services Group Limited. Registered in England Number 2080501

Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pH Units	mg/kg
Method Codes :		ELESULP	ICPACIDS	ICPMSS	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICTSCN28	ICTSCN28	PAHSCUV	WSLM3	WSLM4
Detection Limits :		20	10	0.5	3	1	2	1	5	0.5	2	2	1	5	10		0.5
UKAS Accredited :		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
TES ID Number CL/	Client Sample Description	Elemental Sulphur	SO4-- (acid sol)	Selenium (MS)	Arsenic	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Zinc	CN- (total)	Sulphide	PAH (screening)	pH units	Phenol Index
0301303	TP3 0.6	<20	321	<0.50	9	<1	7	16	76	<0.5	8	54	<1	<5	33	5.3	<0.5
0301304	TP5 2.8	<20	472	0.52	16	<1	7	32	100	<0.5	15	86	1	<5	37	6.6	<0.5
0301305	TP6 3.6	<20	426	<0.50	7	<1	4	10	30	<0.5	5	36	<1	<5	22	8.8	<0.5
0301306	TP7 0.2	<20	1420	0.60	17	<1	23	188	422	<0.5	29	503	2	<5	72	8.3	<0.5
0301299	TP7 3.0																
0301300	TP8 0.5																
0301307	TP9 2.5	<20	1890	0.80	36	<1	61	835	165	<0.5	186	266	<1	<5	245	8.7	<0.5
0301308	TP10 1.0	<20	318	0.51	10	<1	9	16	57	<0.5	11	55	<1	<5	24	6.0	<0.5
0301301	TP12 0.5																
0301309	TP12A 3.0	<20	2580	<0.50	20	<1	20	80	284	<0.5	17	159	<1	<5	180	8.0	<0.5
0301302	TP13 1.0																
0301310	TP14 0.8	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am	N.Am

TES Bretby

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Client Name	C L Associates
Contact	Ms C A Rennie

New Mills, Derbyshire

Soils Sample Analysis

Date Printed	27 January 2003
Report Number	EFS/030119
Table Number	1
Page Number	1 of 2

UKAS TESTING
1252

Units :		mg/kg																
Method Codes :		ICPBOR	SEN9															
Detection Limits :		0.5																
UKAS Accredited :		no	no	no														
TES ID Number CL/	Client Sample Description	Boron.	Asbestos (screening)	^Asbestos ID														
0301303	TP3 0.6	<0.5																
0301304	TP5 2.8	<0.5																
0301305	TP6 3.6	<0.5																
0301306	TP7 0.2	<0.5																
0301299	TP7 3.0			AM,CH														
0301300	TP8 0.5			CH - L														
0301307	TP9 2.5	<0.5																
0301308	TP10 1.0	<0.5																
0301301	TP12 0.5		NBFO															
0301309	TP12A 3.0	<0.5																
0301302	TP13 1.0			CH - L														
0301310	TP14 0.8	N.Am		AM,CH														

TES Bretby

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Client Name	C L Associates
Contact	Ms C A Rennie

New Mills, Derbyshire

Soils Sample Analysis

Date Printed	27 January 2003
Report Number	EFS/030119
Table Number	1
Page Number	2 of 2

UKAS TESTING
1252

TES Bretby

UKAS TESTING
1252

SOIL SAMPLE ANALYSIS

Report Notes

Results expressed as mg/kg air dried unless stated otherwise
SO4 analysis not conducted in accordance with BS1377
Water Soluble Sulphate on 2:1 water:soil extract
AR denotes analysis conducted on the As Received sample
Req Analysis Requested, see attached sheet for results
^ This analysis was subcontracted to another laboratory
I.S Insufficient sample for analysis
NBFO denotes No Bulk Fibres Observed
$$ Unable to analyse due to nature of sample
Intf Unable to analyse due to interferences
BTEX analysis expressed as µg/kg As Received
Phenol HPLC results expressed as mg/kg As Received
* denotes this result not UKAS accredited on this sample
þ Raised detection limit due to nature of sample
CH denotes Chrysotile
CR denotes Crocidolite
AM denotes Amosite
L - Low (2 - 15%)
M - Medium (15 - 50%)
H - High (>50%)

End of Report

TEST REPORT
SOIL SAMPLE ANALYSIS

1252

TES Report No. EFS/030128

Site: New Mills, Derbyshire

C L Associates
Unit 18
Deeside Industrial Estate
Welsh Road
Deeside
CH5 2LR

The 8 samples described in this report were scheduled for analysis by TES Bretby on Tuesday, 14 January 2003. The analysis was completed by Tuesday, 28 January 2003.

Tests marked as 'not UKAS accredited' and any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by TES Bretby laboratories.

The following tables are contained in this report:

Table 1 Main Analysis Results
Table of TPH Chromatogram (1 Page)
Sample Chain of Custody Record (1 Page)
Table of Report Notes (1 Page)

On behalf of
TES Bretby : J Hannah
J Hannah Project Co-ordinator

Date of Issue: 28/01/03

Tests marked 'not UKAS accredited' in this report are not included in the UKAS Accreditation Schedule for our laboratory.

Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pH Units
Method Codes :		ELESULP	ICPACIDS	ICPMSS	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICPSOIL	ICTSCN28	ICTSCN28	PAHSCUV	TPHFID	WSLM3
Detection Limits :		20	10	0.5	3	1	2	1	5	0.5	2	2	1	5	10	10.0	
UKAS Accredited :		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
TES ID Number CL/	Client Sample Description	Elemental Sulphur	SO4-- (acid sol)	Selenium (MS)	Arsenic	Cadmium	Chromium (total)	Copper	Lead	Mercury	Nickel	Zinc	CN- (total)	Sulphide	PAH (screening)	TPH GCFID (AR)	pH units
0301379	BH1 1.3	<20	222	<0.50	4	<1	24	33	30	<0.5	21	63	<1	<5	106		8.3
0301380	BH2 7.0	<20	500	<0.50	11	2	8	16	51	<0.5	12	593	<1	8	209		8.6
0301373	TP8 1.0															89	
0301374	TP13A 3.0	<20	361	<0.50	9	<1	23	57	241	<0.5	27	215	<1	<5	78		8.3
0301375	TP13A 5.0	<20	499	<0.50	10	2	19	89	195	<0.5	23	178	<1	<5	97		8.2
0301376	TP15 2.0	<20	12600	0.93	8	<1	12	35	100	<0.5	12	86	1	<5	244		12.8
0301377	TP16 1.2	<20	3730	0.70	20	<1	13	44	1180	3.0	11	104	<1	<5	31		10.8
0301378	TP18 0.15	<20	1620	0.69	20	<1	17	82	292	<0.5	25	84	1	31	140		8.8

TES Bretby

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Client Name	C L Associates
Contact	Ms C A Rennie

New Mills, Derbyshire

Soils Sample Analysis

Date Printed	28 January 2003
Report Number	EFS/030128
Table Number	1
Page Number	1 of 3

UKAS TESTING

1252

Units :		mg/kg	mg/kg															
Method Codes :		WSLM4	ICPBOR															
Detection Limits :		0.5	0.5															
UKAS Accredited :		yes	no															
TES ID Number CL/	Client Sample Description	Phenol Index	Boron.															
0301379	BH1 1.3	<0.5	<0.5															
0301380	BH2 7.0	<0.5	<0.5															
0301373	TP8 1.0																	
0301374	TP13A 3.0	<0.5	<0.5															
0301375	TP13A 5.0	<0.5	0.6															
0301376	TP15 2.0	<0.5	<0.5															
0301377	TP16 1.2	<0.5	<0.5															
0301378	TP18 0.15	<0.5	<0.5															

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Client Name	C L Associates
Contact	Ms C A Rennie

New Mills, Derbyshire

Soils Sample Analysis

Date Printed	28 January 2003
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Units :		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Method Codes :		PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID
Detection Limits :		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UKAS Accredited :		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
TES ID Number CL/	Client Sample Description	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(123-cd)pyrene	Dibenzo(ah)anthracene	Benzo(ghi)perylene	
0301379	BH1 1.3																	
0301380	BH2 7.0																	
0301373	TP8 1.0	68	14	22	31	183	58	127	123	57	71	46	22	44	14	5	13	

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Client Name	C L Associates
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New Mills, Derbyshire

Soils Sample Analysis

Date Printed	28 January 2003
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UKAS TESTING
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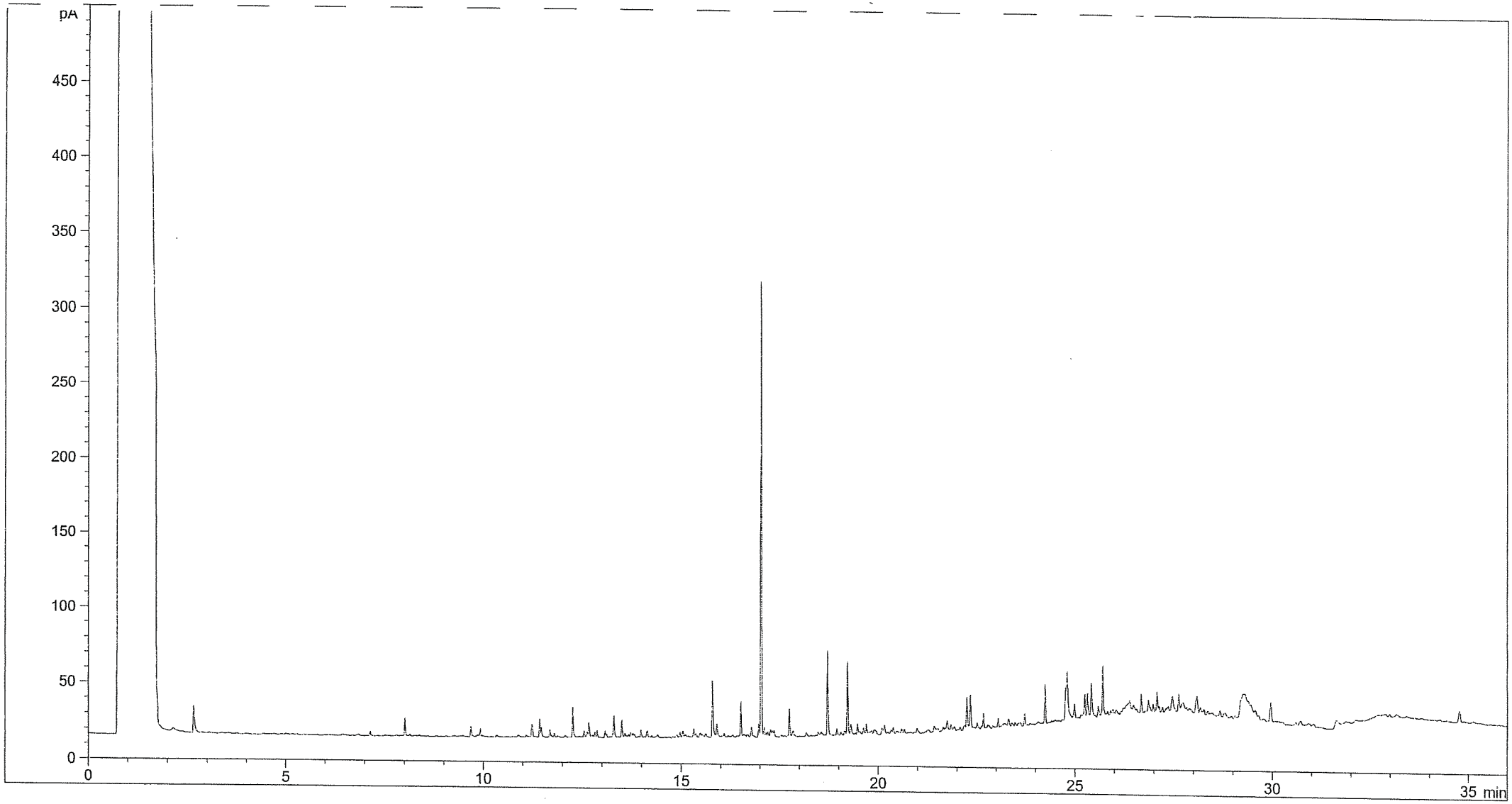

TES Bretby

Sample ID:CL0301373
Date: 01/23/03 19:56:46
Method: L:\METHODS\TPHFPC.M
L:\DATA\0123TPH.GC2\053B0401.D

Instrument: GC2 (reportin->
Operator:
Multiplier: 0.100
Dilution: 1.000

Petroleum Hydrocarbons (C8 to C37) by GC/FID

TES Bretby

UKAS TESTING
1252

SOIL SAMPLE ANALYSIS

Report Notes

Results expressed as mg/kg air dried unless stated otherwise
SO4 analysis not conducted in accordance with BS1377
Water Soluble Sulphate on 2:1 water:soil extract
AR denotes analysis conducted on the As Received sample
Req Analysis Requested, see attached sheet for results
^ This analysis was subcontracted to another laboratory
I.S Insufficient sample for analysis
NBFO denotes No Bulk Fibres Observed
$$ Unable to analyse due to nature of sample
co-eluted with benzo(b)fluoranthene
co-eluted with Indeno(123-cd)pyrene
Intf Unable to analyse due to interferences
BTEX analysis expressed as µg/kg As Received
Phenol HPLC results expressed as mg/kg As Received
* denotes this result not UKAS accredited on this sample
þ Raised detection limit due to nature of sample

End of Report

TEST REPORT
SOIL SAMPLE ANALYSIS

1252

TES Report No. EFS/030165

Site: New Mills, Derbyshire

C L Associates
Unit 18
Deeside Industrial Estate
Welsh Road
Deeside
CH5 2LR

The 2 samples described in this report were scheduled for analysis by TES Bretby on Thursday, 16 January 2003. The analysis was completed by Thursday, 30 January 2003.

Tests marked as 'not UKAS accredited' and any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by TES Bretby laboratories.

The following tables are contained in this report:

Table 1 Main Analysis Results
Sample Chain of Custody Record (1 Page)
Table of Report Notes (1 Page)

On behalf of
TES Bretby : J. Hannah
J Hannah Project Co-ordinator

Date of Issue: 30/01/03

Tests marked 'not UKAS accredited' in this report are not included in the UKAS Accreditation Schedule for our laboratory.

TES Bretby accepts no responsibility for the sampling related to the above results

TES Bretby, P.O. Box 100, Burton-on-Trent, DE15 0XD Telephone: 01283 554400 Fax: 01283 554422

~~TES Bretby is a division of Environmental Services Group Limited Registered in England Number 2560501~~

Units :		mg/l																
Method Codes :		ICPWSS																
Detection Limits :		0.1																
UKAS Accredited :		yes																
TES ID Number CL/	Client Sample Description	SO4-- (H2O sol) mg/l																
0301615	TP6 1.0	26.9																
0301616	TP12 0.5	14.9																

TES Bretby

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Client Name	C L Associates
Contact	Ms C A Rennie

New Mills, Derbyshire

Soils Sample Analysis

Date Printed	30 January 2003
Report Number	EFS/030165
Table Number	1
Page Number	1 of 1

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TES Bretby

UKAS TESTING 1252

SOIL SAMPLE ANALYSIS

Report Notes

Results expressed as mg/kg air dried unless stated otherwise
SO4 analysis not conducted in accordance with BS1377
Water Soluble Sulphate on 2:1 water:soil extract
AR denotes analysis conducted on the As Received sample
Req Analysis Requested, see attached sheet for results
^ This analysis was subcontracted to another laboratory
I.S Insufficient sample for analysis
NBFO denotes No Bulk Fibres Observed
$$ Unable to analyse due to nature of sample
co-eluted with benzo(b)fluoranthene
co-eluted with Indeno(123-cd)pyrene
Intf Unable to analyse due to interferences
BTEX analysis expressed as µg/kg As Received
Phenol HPLC results expressed as mg/kg As Received
* denotes this result not UKAS accredited on this sample
þ Raised detection limit due to nature of sample

End of Report

APPENDIX F
WATER CHEMICAL ANALYSIS RESULTS

TEST REPORT
WATER SAMPLE ANALYSIS

1252

Amended Report
TES Report No. EXR/030272

Site: New Mills, Derbyshire

C L Associates
Unit 18
Deeside Industrial Estate
Deeside
Flintshire
CH5 2LR

The 2 Samples described in this report were scheduled for analysis by TES Bretby on Wednesday, 15 January 2003. This is an amended report that replaces the report issued on 1 February 2003. The analysis was completed by Monday, 3 February 2003.

Tests marked as 'not UKAS accredited' and any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by TES Bretby laboratories.

The following tables are contained in this report:

Table 1 Main Analysis Results
Table of Report Notes (1 Page)

On behalf of
TES Bretby : _____
J Elstub Project Co-ordinator

Date of Issue: 03/02/03

Tests marked 'not UKAS accredited' in this report are not included in the UKAS Accreditation Schedule for our laboratory.

TES Bretby accepts no responsibility for the sampling related to the above results.

Units :				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Method Codes :			WSLM3	ICPWATER	ICPWATER	ICPWATER	ICPWATER	ICPWATER	ICPWATER	ICPWATER	ICPWATER	ICPWATER	ICPMSW	ICPMSW	ICTSCN28	ISESW24	SFAPI	
Detection Limits :				0.06	0.02	0.02	0.01	0.01	0.03	0.01	0.03	0.05	0.0001	0.001	0.1	0.2	0.05	
UKAS Accredited :			yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	
TES ID Number EX/	Client Sample Description	Sample Date	pH units	Total Sulphur as SO4 (Dissolved)	Nickel as Ni (Dissolved)	Chromium as Cr (Dissolved)	Cadmium as Cd (Dissolved)	Copper as Cu (Dissolved)	Lead as Pb (Dissolved)	Zinc as Zn (Dissolved)	Arsenic as As (Dissolved)	Boron as B (Dissolved)	Mercury as Hg (Dissolved)	Selenium as Se (Dissolved)	Cyanide (Total) as CN	Sulphide (Free) as S	Phenol Index as C6H5OH	
0301282	BH01 @ 5.4m	03-Jan-03	8.1	79.0	<0.02	<0.02	<0.01	<0.01	<0.03	0.02	<0.03	<0.05	<0.0001	0.013	<0.1	I.S	<0.05	
0301283	BH02 @ 5.5m	03-Jan-03	7.6	82.2	<0.02	<0.02	<0.01	<0.01	<0.03	0.03	<0.03	0.07	<0.0001	<0.001	<0.1	I.S	<0.05	

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Client Name C L Associates

Contact Ms C Rennie

New Mills, Derbyshire

Water Sample Analysis

Date Printed	3 February 2003
Report Number	EXR/030272
Table Number	1
Page Number	1 of 2

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Units :			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Method Codes :			PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID	PAHFID
Detection Limits :			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
UKAS Accredited :			yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
TES ID Number EX/	Client Sample Description	Sample Date	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(123-cd)pyrene	Dibenzo(ah)anthracene	Benzo(ghi)perylene	
0301282	BH01 @ 5.4m	03-Jan-03	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	
0301283	BH02 @ 5.5m	03-Jan-03	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	I.S	

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New Mills, Derbyshire

Water Sample Analysis

Date Printed	3 February 2003
Report Number	EXR/030272
Table Number	1
Page Number	2 of 2

UKAS TESTING

1252

Report Notes

Soil/Solid analysis specific:
Results expressed as mg/kg unless stated otherwise
S04 analysis not conducted in accordance with BS1377
Water Soluble Sulphate on 2:1 water:soil extract
AR denotes analysis conducted on the As Received sample
co-eluted with benzo(b)fluoranthene
co-eluted with Indeno(123-cd)pyrene
BTEX analysis expressed as ug/kg As Received
Phenol HPLC results expressed as mg/kg As Received

Water analysis specific:
Results expressed as mg/l unless stated otherwise

Oil analysis specific:
Results expressed as mg/kg unless stated otherwise
S.G. expressed as g/cm^3@ 15°C

Filter analysis specific:
Results expressed as mg on filter unless stated otherwise

VOC analysis specific:
Explanatory notes for data flagging
U = undetected above reporting limit
J = concentration at instrument was below lowest calibration standard
E = concentration at instrument was above top calibration standard
B = compound was detected in method blank

Gas (Tedlar bag) analysis specific:
Results expressed as ug/l unless stated otherwise

Air (Carbon tube) analysis specific:
Results expressed as ug on tube unless stated otherwise

Asbestos analysis specific:
CH denotes Chrysotile
CR denotes Crocidolite
AM denotes Amosite
NADIS denotes No Asbestos Detected in Sample
NBFO denotes No Bulk fibres Observed
T Trace
L Low (2-15%)
M Medium (15-50%)
H High (>50%)

General notes:
^ this analysis was subcontracted to another laboratory
$ Within laboratory tolerances
$$ unable to analyse due to nature of sample
¥ Results for guidance only, possible interference
& Blank corrected
I.S insufficient sample for analysis
Intf Unable to analyse due to interferences
N.D Not determined
N.R Not recorded
N.Det Not detected
Req Analysis Requested, see attached sheets for results
* denotes this result not UKAS accredited on this sample
Þ Raised detection limit due to nature of sample

END