SE 40 SW / 67 C.

FORM 407

BOREHOLE RECORD

SOUTH YORKSHIRE COUNTY COUNCIL
DEPARTMENT OF ENGINEERING
ENGINEERING SERVICES LABORATORY

SITE: Station Road Industrial Estate	LOCATION: Wombwell		BOREHOLE No. 3
CUT/FILL(M) —	CHAINAGE(M) —	OFFSET(M) —	SHEET 1 OF 1
BORING METHOD/SIZE(MM) Shell and Auger - 150mm			

BORING			SAMPLES		STRATA				TESTING	
DATE	CASING (M)	WATER (M)	DEPTH (M)	TYPE	KEY	DEPTH (M)	LEVEL (M)	DESCRIPTION	RQD	%
10/10/77						0.00	28.82			
						0.20	28.62	TOPSOIL		
			0.45	U4				MADE GROUND Well compacted dark grey shaly mudstone with red and black shale, coal and brown clay		31
			0.90						13	10
			1.35	SPT						
	1.50		1.70	U4						14
			2.15							
			2.60	SPT					55	8.5
	2.80					3.00	25.82			
		10/10 p.m.	3.05	U4				MADE GROUND Well compacted medium grey shaly mudstone with black shale and coal fragments and black ash		14
			3.50						26	12
		11/10 a.m.	3.95	SPT						
	4.00	12/10 a.m.	4.20-4.90	B						36
	4.90		5.05	U4		5.20	23.62			24
		water struck	5.50	SPT				Soft medium grey-yellow-brown mottled sandy stony CLAY with sandstone and coal fragments	13	17
			5.95			5.90	22.92			
10/10/77	6.20							Medium dense; medium brown fine to coarse grained clayey SAND and GRAVEL		
11/10/77			6.50	SPT					29	15
11/10/77			6.95			6.95	21.87	End of borehole		

REMARKS
Groundwater encountered at 5.95m, casing at 4.90m
Water level rose to 3.10m
Final standing level 4.50m in openhole
Piezometer installed at 4.73m

British Geological Survey

Appendix 3

Trial Pit Logs, TP1 to TP6

Borehole Logs, BH1 to BH6

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St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP1
Sheet 1 of 1

Project Name: Proposed Factory Extension	Project No.: 37688	Co-ords: - Level: 28.60 m AOD	Date: 12/11/2014
Location: Valley Road, Wombwell		Dimensions: 2.90m Depth 4.30m 0.60m	Scale: 1:25
Client: Safestyle UK Ltd			Logged By: KS

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D					TOPSOIL: Firm brown CLAY with frequent rootlets and occasional angular gravel of weak to strong mudstone.
			0.30	28.30		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
0.50	D					
0.90	IPP 1	100				
1.00	IPP 2	125				
1.10	IPP 3	125				
1.20	D		1.15	27.45		MADE GROUND: Burnt red GRAVEL of moderately weak to strong and angular shale and mudstone.
			1.30	27.30		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
			1.60	27.00		MADE GROUND: Burnt red GRAVEL of moderately weak to strong and angular shale and mudstone.
			1.80	26.80		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal.
			2.80	25.80		MADE GROUND: Burnt red GRAVEL of moderately weak to strong and angular shale and mudstone.
			2.90	25.70		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal.
			4.00	24.60		RELIC TOPSOIL: Firm dark grey-green gravelly CLAY with frequent decaying vegetative fragments of grasses and wood. Gravel is of moderately weak mudstone.
4.20	IPP 4	150	4.15	24.45		
4.20	D					
4.30	IPP 5	175	4.30	24.30		Firm to stiff yellow-orange mottled grey silty CLAY with occasional vegetative fragments.
						Trialpit Complete at 4.30 m

Remarks:
1. Pit sides stable.
2. Penetrometer readings given as average unconfined compressive strength in kN/m2.
3. Backfilled with arisings to existing ground level.

Groundwater: Ingressing from surface. Causing pooling at base to 3.60 m bgl.

AGS

HoleBASE 3.1 (Bd 426.48) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP2
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Proposed Factory Extension	37688	Level: 27.90 m AOD	12/11/2014
Location: Valley Road, Wombwell		Dimensions: 3.20m	Scale 1:25
Client: Safestyle UK Ltd		Depth 3.90m / 0.60m	Logged By KS

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D					TOPSOIL: Firm brown CLAY with frequent rootlets and occasional angular gravel of weak to strong mudstone and rare coal.
			0.40	27.50		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
0.60	D					
1.00	IPP 1	125				
1.10	IPP 2	125				
1.25	IPP 3	150				
			1.50	26.40		MADE GROUND: Burnt red GRAVEL of moderately weak to strong and angular shale and mudstone.
1.60	D					
			1.70	26.20		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
			2.70	25.20		MADE GROUND: Burnt red GRAVEL of moderately weak to strong and angular shale and mudstone.
			2.90	25.00		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
3.40	IPP 4	100	3.40	24.50		Firm to stiff yellow-orange mottled grey silty slightly gravelly CLAY with occasional vegetative fragments. Gravel is of moderately weak angular mudstone, shale and coal.
3.50	IPP 5	150				
3.50	D					
3.60	IPP 6	170				
			3.90	24.00		Trialpit Complete at 3.90 m

Remarks:
1. Pit sides stable.
2. Pocket penetrometer readings given as average unconfined compressive strength in kN/m2.
3. Backfilled with arisings to existing ground level.

Groundwater: Slight ingress from surface, causing minor pool at base.

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HoleBASE 3.1 (Bd 426.46) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP3
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Proposed Factory Extension	37688	Level: 29.27 m AOD	12/11/2014
Location: Valley Road, Wombwell		Dimensions: 3.80m	Scale 1:50
Client: Safestyle UK Ltd		Depth 6.00m, 0.60m	Logged By KS

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D					TOPSOIL: Firm brown slightly gravelly CLAY with frequent rootlets. Gravel of weak angular mudstone and coal with rare brick fragment.
			0.35	28.92		
0.50	D					MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
			1.30	27.97		
1.40	D					MADE GROUND: Burnt red GRAVEL of moderately weak to strong and angular shale and mudstone.
			1.80	27.47		
2.00	D					MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
			2.80	26.47		
			2.90	26.37		MADE GROUND: Burnt red GRAVEL of moderately weak to strong and angular shale and mudstone.
						MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
			5.50	23.77		
5.50-6.00	D					RELIC TOPSOIL: Firm dark grey-green gravelly CLAY with frequent decaying vegetative fragments of grasses and wood. Gravel is of moderately weak mudstone.
			6.00	23.27		Trialpit Complete at 6.00 m

Remarks:
1. Pit sides stable.
2. Pocket penetrometer readings given as average unconfined compressive strength in kN/m2.
3. Backfilled with arisings to existing ground level.

Groundwater: None encountered.

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HoleBASE 3.1 (Bld 426.48) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP4
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Proposed Factory Extension	37688	Level: 29.15 m AOD	12/11/2014
Location: Valley Road, Wombwell		Dimensions: 3.70m	Scale 1:50
Client: Safestyle UK Ltd		Depth 6.00m / 0.60m	Logged By KS

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.15	29.00		TOPSOIL/ MADE GROUND: Firm brown CLAY with frequent gravel of angular mudstone and coal with occasional brick fragments.
0.30	D					
0.45	D		0.40	28.75		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
			0.50	28.65		MADE GROUND: Burnt red slightly clayey GRAVEL of moderately weak to strong and angular shale and mudstone.
						MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
1.50	D					
			2.45	26.70		MADE GROUND: Burnt red slightly clayey GRAVEL of moderately weak to strong and angular shale and mudstone.
			2.60	26.55		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
			5.80	23.35		RELIC TOPSOIL: Firm dark grey-green gravelly CLAY with frequent decaying vegetative fragments of grasses and wood. Gravel is of moderately weak mudstone.
6.00	IPP 1	75	6.00	23.15		
6.00	IPP 2	125				
6.00	IPP 3	165				
6.00	D					

Trialpit Complete at 6.00 m

Remarks:
1. Pit sides stable.
2. Pocket penetrometer readings given as average unconfined compressive strength in kN/m2.
3. Backfilled with arisings to existing ground level.

Groundwater: None encountered.

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HoleBASE 3.1 (Bk 426.4k) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No **TP5** Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Proposed Factory Extension	37688	Level: 27.80 m AOD	12/11/2014
Location: Valley Road, Wombwell		Dimensions: 2.90m Depth 3.90m 0.60m	Scale 1:25
Client: Safestyle UK Ltd			Logged By KS

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.10	27.70		TARMAC
			0.15	27.65		MADE GROUND: Sub base sandy limestone aggregate.
0.30	D					MADE GROUND: Mixed slightly clayey gravelly sand with frequent brick, concrete and metallic fragments. Gravel comprises angular to sub-rounded of smooth and coarse mixed lithology. Sand is coarse.
			0.40	27.40		
0.50	IPP 1	150				MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
0.50	IPP 2	175				
0.50	IPP 3	175				
0.60	D					
			0.80	27.00		MADE GROUND: Burnt red slightly clayey GRAVEL of moderately weak to strong and angular shale and mudstone.
0.90	D					
1.00	IPP 4	170	1.00	26.80		MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments. Rare metallic and wire ducting.
1.00	IPP 5	175				
2.30	D		2.30	25.50		
			2.40	25.40		MADE GROUND: Burnt red slightly clayey GRAVEL of moderately weak to strong and angular shale and mudstone.
						MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
			3.70	24.10		
3.80	IPP 6	200				Stiff to very stiff yellow-orange mottled grey slightly silty CLAY with occasional vegetative fragments.
3.80	IPP 7	250				
3.80	D		3.90	23.90		
3.90	IPP 8	250				Trialpit Complete at 3.90 m

Remarks:
1. Minor instability to 0.4m bgl, pit sides stable below.
2. Pocket penetrometer readings given as average unconfined compressive strength in kN/m2.
3. Backfilled with arisings to existing ground level.

Groundwater: Minor ingress from 0.80 m bgl, no significant collection.

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HoleBASE 3.1 (Bld 426.49) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP6
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Proposed Factory Extension	37688	Level: 27.80 m AOD	12/11/2014
Location: Valley Road, Wombwell		Dimensions: 3.80m	Scale 1:25
Client: Safestyle UK Ltd		Depth 4.40m / 0.60m	Logged By KS

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.10	27.70		TARMAC
			0.15	27.65		MADE GROUND: Sub-base sandy limestone aggregate.
0.30	D					MADE GROUND: Mixed slightly clayey gravelly sand with frequent brick, concrete and metallic fragments. Gravel comprises angular to sub-rounded of smooth and coarse mixed lithology. Sand is coarse.
			0.60	27.20		
0.70	IPP 1	150				MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wooden fragments.
0.75	D					
0.80	IPP 2	150				
			0.90	26.90		
1.00	D					MADE GROUND: Burnt red slightly clayey GRAVEL of moderately weak to strong and angular shale and mudstone.
			1.10	26.70		
1.20	D					MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
2.10	IPP 3	125	2.10	25.70		
2.10	IPP 4	150				MADE GROUND: Burnt red slightly clayey GRAVEL of moderately weak to strong and angular shale and mudstone.
2.20	D					
			2.40	25.40		
						MADE GROUND/ COLLIERY SPOIL: Stiff dark black and grey very gravelly CLAY. Gravel comprises frequent weak to strong angular mudstone and shale with coal. Frequent wood fragments.
4.00	IPP 5	175				
			4.10	23.70		
4.20	IPP 6	250				Stiff yellow-orange mottled grey silty CLAY with occasional vegetative fragments.
4.20	IPP 7	250				
			4.40	23.40		Trialpit Complete at 4.40 m

Remarks:
1. Minor instability to 0.6 m bgl, pit sides stable below.
2. Pocket penetrometer readings given as average unconfined compressive strength in kN/m2
3. Backfilled with arisings to existing ground level.

Groundwater: Minor ingress from 2.0 m bgl, no significant collection.

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HoleBASE 3.1 (0804.426.4a) Standard Trialpit Log v2 dated 27th Nov 03

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Borehole No
BH1
Sheet 1 of 1

Project Name: Proposed Factory Extension	Project No.: 37688	Co-ords: -	Hole Type: Rotary
Location: Valley Road, Wombwell		Level: 27.70 m AOD	Scale: 1:125
Client: Safestyle UK Ltd		Dates: 12/11/2014	Logged By: Drillers

Well	Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
								MADE GROUND
					7.60	20.10		Brown MUDSTONE
					10.10	17.60		Grey MUDSTONE
					15.70	12.00		COAL
					16.60	11.10		Grey MUDSTONE
					21.00	6.70		End of Borehole at 21.00 m

Type	Results

Remarks:

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HoleBASE 3.1 (Bld 426,46) Standard Borehole Log v2 dated 27th Nov 03

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Borehole No
BH2
Sheet 1 of 1

Project Name: Proposed Factory Extension	Project No.: 37688	Co-ords: -	Hole Type: Rotary
Location: Valley Road, Wombwell		Level: 28.90 m AOD	Scale: 1:125
Client: Safestyle UK Ltd		Dates: 12/11/2014	Logged By: Drillers

Well	Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
								MADE GROUND
					8.80	20.10		Brown MUDSTONE
					10.60	18.30		Grey MUDSTONE
					16.10	12.80		COAL
					17.00	11.90		Grey MUDSTONE
					21.00	7.90		End of Borehole at 21.00 m
			Type	Results				

Remarks:

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HoleBASE 3.1 (Rel 426.48) Standard Borehole Log v2 dated 27th Nov 03

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Borehole No
BH3
Sheet 1 of 1

Project Name: Proposed Factory Extension	Project No.: 37688	Co-ords: -	Hole Type: Rotary
Location: Valley Road, Wombwell		Level: 29.10 m AOD	Scale: 1:125
Client: Safestyle UK Ltd		Dates: 12/11/2014	Logged By: Drillers

Well	Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
								MADE GROUND
					11.90	17.20		Brown MUDSTONE
					13.30	15.80		Grey MUDSTONE
					16.40	12.70		COAL
					17.30	11.80		Grey MUDSTONE
					19.00	10.10		End of Borehole at 19.00 m
			Type	Results				

Remarks:

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HoleBASE 3.1 (Bd 42k.46) Standard Borehole Log v2 dated 27th Nov 03

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Borehole No
BH4
Sheet 1 of 1

Project Name: Proposed Factory Extension	Project No.: 37688	Co-ords: -	Hole Type: Rotary
Location: Valley Road, Wombwell		Level: 27.50 m AOD	Scale: 1:125
Client: Safestyle UK Ltd		Dates: 12/11/2014	Logged By: Drillers

Well	Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
								MADE GROUND
					8.00	19.50		Brown MUDSTONE
					18.00	9.50		End of Borehole at 18.00 m

Type	Results

Remarks:

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HoleBASE 3.1 (Bd 426.48) Standard Borehole Log v2 dated 27th Nov 03

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Borehole No
BH5
Sheet 1 of 1

Project Name: Proposed Factory Extension	Project No.: 37688	Co-ords: -	Hole Type: Rotary
Location: Valley Road, Wombwell		Level: 27.80 m AOD	Scale: 1:125
Client: Safestyle UK Ltd		Dates: 12/11/2014	Logged By: Drillers

Well	Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
								MADE GROUND
					8.10	19.70		Brown MUDSTONE
					18.00	9.80		End of Borehole at 18.00 m

Type	Results

Remarks:

AGS

HoleBASE 3.1 (Std 42b.46) Standard Borehole Log v2 dated 27th Nov 03

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Borehole No
BH6
Sheet 1 of 1

Project Name: Proposed Factory Extension	Project No.: 37688	Co-ords: -	Hole Type: Rotary
Location: Valley Road, Wombwell		Level: 27.70 m AOD	Scale: 1:125
Client: Safestyle UK Ltd		Dates: 12/11/2014	Logged By: Drillers

Well	Water Strikes	Samples & In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m AOD)	Legend	Stratum Description
								MADE GROUND
					9.10	18.60		Brown MUDSTONE
					18.00	9.70		End of Borehole at 18.00 m

Type Results

Remarks:

AGS

HoleBASE 3.1 (Bd 428.48) Standard Borehole Log v2 dated 27th Nov 03

Appendix 4

Chemtech Report, 53504

Table of Industrial/ Commercial Assessment Values

2531

CHEMTECH environmental

ANALYTICAL TEST REPORT

Contract no:	53504
Contract name:	Safestyle UK, Valley Road, Wombwell
Client reference:	37688
Clients name:	Eastwood & Partners
Clients address:	St Andrews House 23 Kingfield Road Sheffield S11 9AS
Samples received:	14 November 2014
Analysis started:	14 November 2014
Analysis completed	21 November 2014
Report issued:	21 November 2014

Notes:

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, withour prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key:

U UKAS accredited test
M MCERTS & UKAS accredited test
$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing

Approved by:

K Campbell

Karan Campbell Director	John Campbell Director	Dave Bowerbank Customer Services Co-ordinator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.
Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
53504-1	TP 1	0.10	Loamy Clay	-	-	28.1
53504-2	TP 2	0.10	Loamy Clay	-	-	24.2
53504-3	TP 2	0.60	Clay with Gravel	-	-	11.6
53504-4	TP 2	3.50	Clay	-	-	24.4
53504-5	TP 3	0.10	Loam	-	-	28.9
53504-6	TP 3	5.50-6.00	Loamy Clay	-	-	43.8
53504-7	TP 4	0.45	Clay with Gravel	-	-	15.4
53504-8	TP 5	0.30	Sandy Clay with Gravel	-	-	16.9
53504-9	TP 6	0.30	Loamy Clayey Sand with Gravel	-	-	8.4
53504-10	TP 6	0.75	Clay	-	-	11.6
53504-11	TP 6	4.20	Clay	-	-	20.1