

APPENDIX E
SEARCH RESPONSES AND OTHER CORRESPONDENCE

rachel.jowett@enciagroup.co.uk

Rachel Jowett
Encia

Our Ref : RFI/2008/3987
Your Ref : 9507

Date : 11 April 2008

Dear Rachel

RE: Leslie Road, Kendray, Barnsley

Thank you for your enquiry which was received on 28 February 2008 and payment taken 10 March 2008.

Development Control

Our "Flood Zone Maps" show the identified site to be in Planning Policy Statement 25 Development and Flood Risk (PPS25) zone 1. We have no record of this site having suffered flooding.

As far as we are aware there is no watercourse on or in the vicinity of this site. Our records are primarily of "main rivers" and it is possible that an "ordinary watercourse" either open or culverted could exist which we do not hold details of. If such a watercourse is found to exist that this site would drain to naturally any surface water drainage from the site would have to be attenuated to a maximum of 5 litres/second/hectare for the impermeable area, the balancing facility designed to accommodate a 1 in 30 year storm flow from the site and a 1 in 100 year flow retained within the site without causing flooding to property.

Water Resources

There are no water abstraction licences within 250 metres of the site.

Environment Management

There are no areas of landfilling (closed or operational) within 250 meters of the specified site or surface water courses or bodies within 250 meters of the specified site.

Groundwater

The site does not currently lie within any groundwater source protection zone. It lies upon Pennine Middle Coal Measures geology. Environment Agency Groundwater Vulnerability map sheet 11 designates the geology as a minor aquifer with a soil leaching classification of High, based on lack of knowledge of an urban area. We currently hold no records of groundwater or surface water pollution associated with the site.

Biology

We have no data within the radius specified

Fisheries & Recreation

We have concerns for the area.

PIR

As far as we are aware there are no Integrated Pollution Control (IPC) Authorisations, Integrated Pollution Prevention & Control (IPPC) Authorisations or Radioactive Substances (RAS) Registrations/Authorisations at or within 500 metres of this site.

This information is provided subject to the enclosed notice which you should read.

Yours sincerely,

Lesley Slaney
External Relations Officer

Issued by:

The Coal Authority, Mining Reports Office, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire NG18 4RG
On-Line Service: www.coalminingreports.co.uk - Phone: 0845 762 6848 - DX 716176 MANSFIELD 5

RACHEL JOWETT,
ENCIA CONSULTING LIMITED,
AUDBY LANE,
WETHERBY,
WEST YORKSHIRE,
LS22 4RD

Person dealing with this matter: **Darren Moody**
Our reference: **00016077-08**
Your reference: 810 - 9507/1-AS1-006729
Electronic Ref: EME_00008913490001_005
RRUID: 005.00008913490001
Date of your enquiry: **27 February 2008**
Date we received your enquiry: **27 February 2008**
Date of issue: **28 February 2008**

This report is for the property described in the address below and the attached plan.

Coal and Brine Report

Site At, Leslie Road, Barnsley, South Yorkshire

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

| | |
|------------------|-----|
| Coal mining | Yes |
| Brine extraction | No |

Information from the Coal Authority

Underground Coal Mining

Past

The property is in the likely zone of influence from workings in 11 seams of coal at 150m to 600m depth, and last worked in 1983.

Any ground movement from these coal workings should have stopped by now.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Coal-mining geology

At the surface, there are no known faults or other lines of weakness due to coal mining that have made the property unstable.

Opencast Coal Mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal-mining subsidence

Claim(s) within, or intersecting, the property boundary that do not match the property address are shown on the attached plan.

The Coal Authority has not received a request to carry out preventive work before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of Support

The property is in an area for which a notice of entitlement to withdraw support was published in 1986.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

Working Facilities Orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to Owners of Former Copyhold Land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional remarks

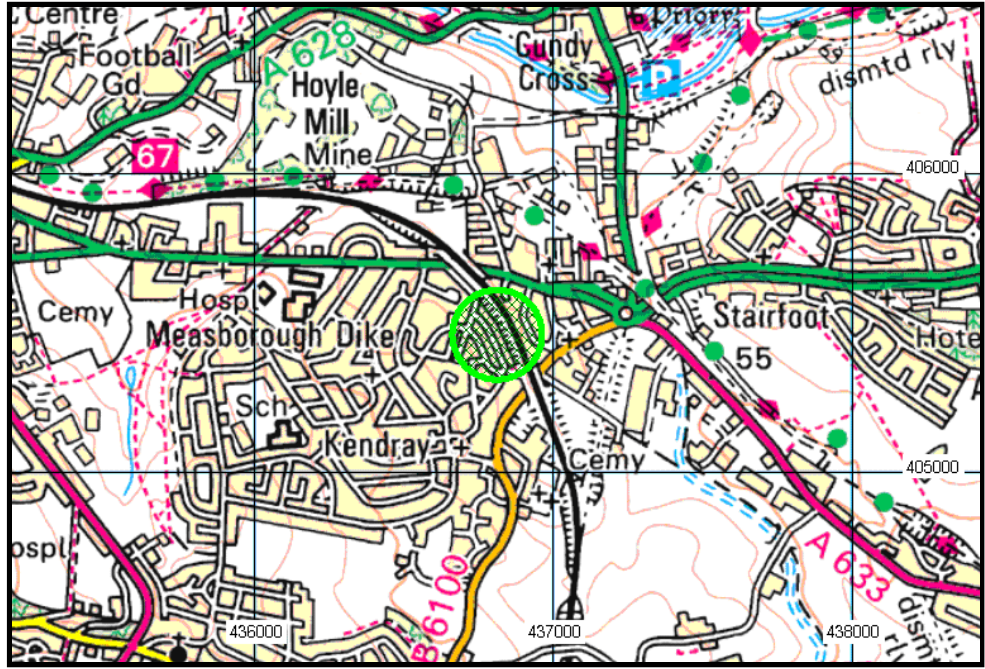
This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The report is compliant with Home Information Pack requirements.

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Location map



Approximate position of property



Enquiry boundary

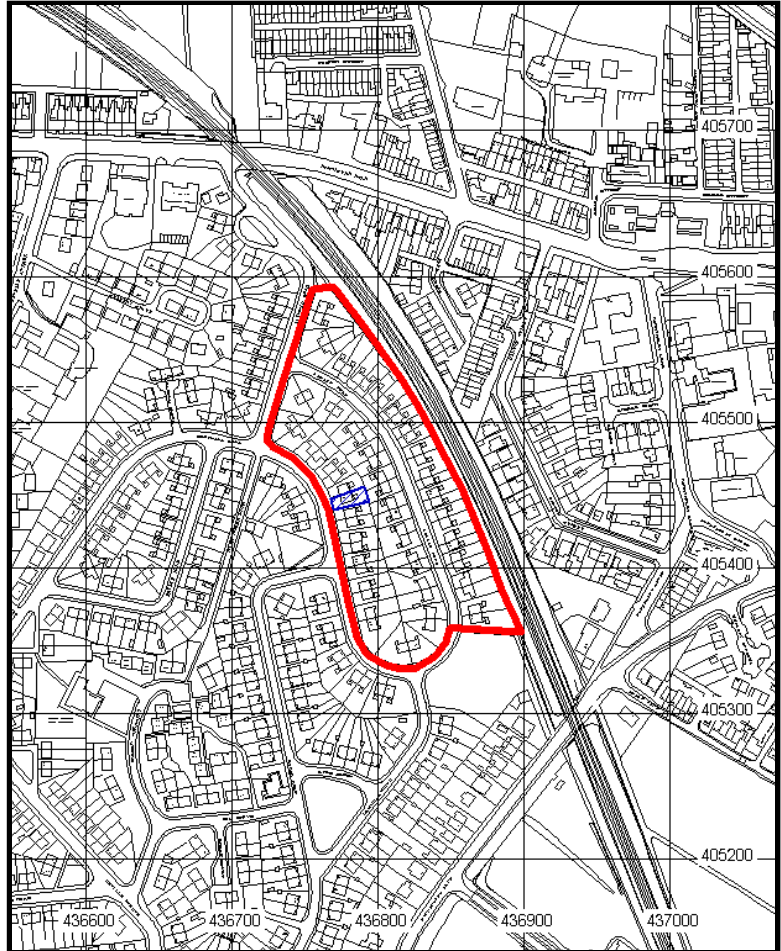
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Key

Approximate position of enquiry boundary shown



Coal Authority mining subsidence claim boundary shown





| | |
|--------------|-------------|
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| IC | FA |
| 9557 | ASW |
| DISTRIBUTION | |

Regulatory Services

Assistant Director: Ken Eastwood, BSc (Hons), MCIEH
PO Box 602, Barnsley, S70 9FB.

My Ref: JSC/Leslie Your Ref: 9507 Date: 19 March 2008
Enquiries: Mr J Scott Dial Direct: (01226) 772468 Fax: (01226) 775699
To: regulatoryservices@barnsley.gov.uk

Dear Madam

Re Leslie Road, Kendray, Barnsley (NGR: SE368 054)

Further to your e-mail requesting information in respect of the above site, I can now supply you with the information we hold regarding this site.

Closed Landfill Sites

There are no closed landfills within 250m of the above site.

Contaminated Land

Under the provisions of the Environmental Protection Act 1990, we have a duty to inspect the borough for contaminated land. As part of this work, records of potential sources of contamination have been compiled through the use of historical Ordnance Survey maps and local knowledge

In respect of the above property, the information that we have collated has shown that there is no previous contaminative uses on the site, and as such we are not planning to inspect the site under part IIA of the Environmental Protection Act 1990.

LAIPPC Authorised Processes

There are no LAIPPC Authorised Processes operating on the above site. However, there is one Part B Authorised Process operating within 250m of the site, the details of which are listed below;

EPA Reference – 22

Operator – H Brown and Son

Address – Oaks Lane, Stairfoot, Barnsley

The authorisation relates to the burning of waster oils on a waste oil burner of less than 0.4MW.

Nuisance Complaints

We have no records of any instances of nuisances occurring on the above site over the last three year period.

Rachel Jowett
ENCIA Consulting Ltd
Encia House
Audby Lane
Wetherby
LS22 7RD

Reported Incidents

We have no records of any pollution incidents relating to this site. However, I recommend you contact the Environment Agency in respect of this matter, as they receive more reports on this matter.

Water Abstractions

Our records show there are no private water abstractions within 1km of the above site.

I must inform you that the Council make a charge for supplying this information and you will be invoiced accordingly in due course. This charge will be £100 as agreed.

This information is submitted as being the position to-date and other information may be available in records not held by this Authority at the present time. The Borough Council cannot, therefore accept liability or be prejudiced by the views expressed.

Should you wish to discuss this correspondence further, please don't hesitate to contact me;

Yours faithfully

A black rectangular redaction box covering the signature of John Scott.

John Scott,
Contaminated Land Officer

**APPENDIX F
TRIAL PIT LOGS**

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP1

DATE 28/03/2008

Co-ords 436782E 405566N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| 1D | 0.30 | | MADE GROUND: Brown gravelly clay. Gravel is angular to subrounded, fine to coarse of brick, concrete, sandstone and quartz. (COHESIVE MADE GROUND) | 0.40 | | | |
| 2D | 0.70 | | MADE GROUND: Brown, slightly gravelly clay with occasional rootlets. Gravel is fine to medium of mixed lithologies. (RELICT TOPSOIL) | 0.80 | | | |
| 3D | 1.00 | | Firm, orange brown, slightly sandy CLAY. (COMPLETELY WEATHERED SANDSTONE) | 1.40 | | | |
| 4D | 1.60 | | Firm, orange brown mottled grey, slightly sandy CLAY with occasional angular cobbles of sandstone. (COMPLETELY WEATHERED SANDSTONE) | 2.00 | | | |
| | | | Orange brown angular COBBLES of sandstone with occasional pockets (<250mm diameter) of stiff clay. (WEATHERED SANDSTONE) From 2.0 - 2.5m: Difficult to excavate. | 2.50 | | | |
| | | | Stiff, orange brown mottled grey, thinly bedded CLAY. (COMPLETELY WEATHERED SANDSTONE) | 2.90 | | | |
| | | | End of trial pit at 2.90 m | | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

| | | | |
|--|-------------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket. | Logged by A.Sw | JOB 9507 | FIGURE |
|--|-------------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP2

DATE 28/03/2008

Co-ords 436792E 405543N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|-----------|-----------|--------------|--------|
| 1D | 0.30 | | MADE GROUND: Brown gravelly clay. Gravel is angular to subangular, fine to coarse of brick, concrete, ceramic and sandstone. Rare plastic (<100mm length). (COHESIVE MADE GROUND) | | | | |
| 2D | 0.80 | | MADE GROUND: Brown, slightly gravelly clay with occasional rootlets. Gravel is angular, fine to coarse of brick and ceramic. (RELICT TOPSOIL) | 0.70 | | | |
| 3D | 1.50 | | Stiff, orange brown mottled grey, slightly sandy CLAY. (COMPLETELY WEATHERED SANDSTONE) | 1.20 | | | |
| | | | At 1.9m depth: 100mm diameter ceramic drainage pipe. Trial pit abandoned. End of trial pit at 1.90 m | 1.90 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

A.Sw

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP3

DATE 28/03/2008

Co-ords 436807E 405516N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| 1D | 0.50 | | MADE GROUND: Brown gravelly clay with rare whole bricks. Gravel is angular, fine to coarse of brick, concrete, ceramic and sandstone. Rare plastic (<100mm length). (COHESIVE MADE GROUND) | | | | |
| 2D | 1.20 | | Orange brown, sandy, angular to subangular, fine to coarse GRAVEL of sandstone with occasional angular tabular cobbles. Occasional pockets (<250mm diameter) of firm clay. (WEATHERED SANDSTONE) | 1.00 | | | |
| | | | Below 1.5m depth: becoming difficult to excavate. | | | | |
| | | | End of trial pit at 1.90 m | 1.90 | | | |

Remarks
 1. Prior to excavation a Cable Avoidance Tool survey was carried out.
 2. The sides of the trial pit remained stable during excavation.
 3. Groundwater was not apparent during excavation.
 4. On completion the trial pit was backfilled with materials arising.

| | | | |
|--|-------------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket. | Logged by A.Sw | JOB 9507 | FIGURE |
|--|-------------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP4

DATE 28/03/2008

Co-ords 436826E 405477N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|--------------|-----------|--------------|--------|
| 1D | 0.50 | | MADE GROUND: Brown gravelly clay. Gravel is angular to subangular, fine to coarse of brick, concrete, ceramic and sandstone. (COHESIVE MADE GROUND) | | | | |
| | | | At 0.9m depth: Concrete footing, 300mm wide, 200mm thick. | 0.90 | | | |
| 2D | 1.20 | | Orange brown, slightly clayey, very sandy, angular fine to coarse GRAVEL of sandstone with occasional angular tabular cobbles. Occasional pockets (<250mm diameter) of firm clay. (WEATHERED SANDSTONE) | | | | |
| | | | Moderately strong, orange brown, fine to coarse grained SANDSTONE. Recovered as gravelly, angular tabular cobbles. (COAL MEASURES SANDSTONE) Unable to excavate below 1.6m depth. End of trial pit at 1.60 m | 1.50 1.60 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

A.Sw

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP5

DATE 28/03/2008

Co-ords 436842E 405446N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|-----------|-----------|--------------|--------|
| 1D | 0.40 | | MADE GROUND: Brown, gravelly clay. Gravel is angular to subangular, fine to coarse of brick, concrete and sandstone. (COHESIVE MADE GROUND) | | | | |
| 2D | 0.70 | | Orange brown, slightly clayey, sandy, gravelly, angular tabular COBBLES of sandstone. (WEATHERED SANDSTONE) | 0.50 | | | |
| | | | Moderately strong, orange brown and grey, fine to coarse grained SANDSTONE. Recovered as angular tabular cobbles. (COAL MEASURES SANDSTONE) | 1.30 | | | |
| | | | Unable to excavate below 1.8m depth. End of trial pit at 1.80 m | 1.80 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

A.Sw

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP5A

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|-----------|-----------|--------------|--------|
| | | | MADE GROUND: Firm, brown gravelly clay. Gravel is angular to subrounded, fine to medium. Rare half bricks. (COHESIVE MADE GROUND) | | | | |
| | | | Soft, orange and brown mottled, slightly sandy, slightly gravelly CLAY. Gravel is subangular, fine to coarse of sandstone. (COMPLETELY WEATHERED COAL MEASURES) | 0.50 | | | |
| | | | Orange brown and grey mottled, slightly clayey, sandy to very sandy, angular to subangular, fine to coarse GRAVEL of sandstone. Occasional subangular, tabular cobbles. (WEATHERED SANDSTONE) | 0.80 | | | |
| | | | Orange brown and grey mottled, slightly clayey subangular tabular COBBLES of sandstone. (WEATHERED SANDSTONE) | 1.30 | | | |
| | | | Orange brown and grey mottled, slightly sandy CLAY. (COMPLETELY WEATHERED SANDSTONE) | 2.10 | | | |
| | | | End of trial pit at 2.50 m | 2.50 | | | |

- Remarks
1. Prior to excavation a Cable Avoidance Tool Survey was carried out.
 2. The sides of the trial pit remained stable during excavation.
 3. Groundwater was not apparent during excavation
 4. On completion the trial pit was backfilled with materials arising

| | | | |
|---|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide tooth bucket. | Logged by LG | JOB 9507 | FIGURE |
|---|-----------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP6

DATE 28/03/2008

Co-ords 436849E 405428N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|--------------|-----------|--------------|--------|
| 1D | 0.20 | | MADE GROUND: Brown, gravelly clay. Gravel is angular, fine to coarse of brick, concrete and sandstone. Rare whole bricks. (COHESIVE MADE GROUND) | | | | |
| 2D | 1.00 | | Stiff, orange brown mottled grey sandy CLAY. (COMPLETELY WEATHERED SANDSTONE) | 0.80 | | | |
| | | | Stiff, orange brown mottled grey CLAY with occasional angular tabular cobbles of sandstone. (COMPLETELY WEATHERED SANDSTONE) Difficult to excavate below 1.7m depth. End of trial pit at 1.70 m | 1.50 1.70 | | | |

Remarks
 1. Prior to excavation a Cable Avoidance Tool survey was carried out.
 2. The sides of the trial pit remained stable during excavation.
 3. Groundwater was not apparent during excavation.
 4. On completion the trial pit was backfilled with materials arising.

| | | | |
|--|-------------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket. | Logged by A.Sw | JOB 9507 | FIGURE |
|--|-------------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP7

DATE 28/03/2008

Co-ords 436851E 405410N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|--------------|-----------|--------------|--------|
| 1D | 0.00-1.30 | | MADE GROUND: ? Soft, dark brown, very sandy clay with much angular fine to coarse gravel of brick, concrete, clay pipe and sandstone. (COHESIVE MADE GROUND) | | | | |
| 2D | 1.40 | | Firm, orange and light brown mottled sandy CLAY with occasional fine, subangular gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) At 1.5m: Clay drainage pipe . Fast inflow which stopped after 2 minutes. | 1.30 1.60 | | | |
| | | | Stiff brown and grey mottled CLAY with some angular fine to coarse gravel of sandstone. (COMPLETLEY WEATHERED SANDSTONE) At 2.0m: Trial pit terminated on bedrock. End of trial pit at 2.00 m | 2.00 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

RW

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP7A

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| | | | MADE GROUND: Soft, black sandy clay with gravel size fragments of wood, glass (up to 100mm), rags, half bricks, full bricks, slate, broken pipe and plastic. (GRANULAR MADE GROUND) | | | | |
| | | | Firm to soft, orange and grey mottled, slightly sandy CLAY with subangular tabular gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) | 1.00 | | | |
| | | | End of trial pit at 2.60 m | 2.60 | | | |

Remarks

| | | | |
|---|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide tooth bucket. | Logged by LG | JOB 9507 | FIGURE |
|---|-----------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP8

DATE 28/03/2008

Co-ords 436877E 405372N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| 1D | 0.00-0.30 | | MADE GROUND: ? Soft, dark brown, sandy organic clay with some angular fine to coarse gravel and occasional cobble of brick and concrete. (REWORKED TOPSOIL) | 0.30 | | | |
| 2D | 0.60 | | ? Stiff, orange and light brown mottled, slightly sandy CLAY with some angular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) | 0.80 | | | |
| | | | Moderately strong, orange brown, very thinly bedded SANDSTONE. (COAL MEASURES SANDSTONE) | 1.00 | | | |
| | | | At 1.0m: Trial pit terminated on sandstone bedrock. End of trial pit at 1.00 m | | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit were loose from 0.0 - 0.3m during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

| | | | |
|--|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket. | Logged by RW | JOB 9507 | FIGURE |
|--|-----------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP9

DATE 28/03/2008

Co-ords 436791E 405370N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|--------------|-----------|--------------|--------|
| 1D | 0.50-1.00 | | ? Firm, orange brown sandy CLAY with some fine to medium gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) | 0.50 | | | |
| | | | ? Stiff, brown and orange mottled sandy CLAY with much angular fine to coarse gravel and occasional cobble of sandstone. Locally clayey gravel. (COMPLETELY WEATHERED SANDSTONE) From 0.5m: Difficult to excavate. | | | | |
| | | | Moderately weak, orange brown, very thinly bedded to thickly laminated SANDSTONE. Recovered as angular tabular fine to coarse gravel in a clayey matrix. (COAL MEASURES SANDSTONE) At 1.5m: Slight seepage of groundwater. End of trial pit at 1.70 m | 1.50 1.70 | | | |

- Remarks
1. Prior to excavation a Cable Avoidance Tool survey was carried out.
 2. The sides of the trial pit remained stable during excavation.
 3. Groundwater seepage was encountered at 1.5m during excavation.
 4. On completion the trial pit was backfilled with materials arising.

| | | | |
|--|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket. | Logged by RW | JOB 9507 | FIGURE |
|--|-----------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP10

DATE 28/03/2008

Co-ords 436820E 405346N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| 1D | 0.20 | | MADE GROUND: ? Soft, brown sandy clay with much angular fine to coarse gravel of brick, concrete, sandstone and occasional gravel size fragments of wood, plastic and metal. (COHESIVE MADE GROUND) | 0.20 | | | |
| 2D | 0.50 | | ? Firm, orange brown sandy CLAY with some angular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) | | | | |
| | | | Moderately weak to weak, brown, very thinly bedded SANDSTONE. (COAL MEASURES SANDSTONE) | 1.10 | | | |
| | | | At 1.3m: Trial pit terminated on sandstone bedrock. End of trial pit at 1.30 m | 1.30 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide straight edged bucket.

Logged by

RW

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP11

DATE 28/03/2008

Co-ords 436784E 405407N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| 1D | 0.00-0.30 | | MADE GROUND: ? Soft, brown sandy clay with some angular fine to coarse gravel and occasional cobble of brick, concrete, limestone, sandstone and wood. (COHESIVE MADE GROUND) | | | | |
| 2D | 0.30-1.40 | | MADE GROUND: ? Loose, reddish brown, very sandy, angular fine to coarse gravel of brick. (GRANULAR MADE GROUND) | 0.30 | | | |
| | | | At 1.1m: Steady inflow of groundwater. | | | | |
| | | | ? Stiff, orange and grey mottled CLAY with much angular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) | 1.40 | | | |
| | | | End of trial pit at 1.60 m | 1.60 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit were loose from 0.3m - 1.4m during excavation.
3. Groundwater was encountered at 1.1m during excavation.
4. On completion the trial pit was backfilled with materials arising.

| | | | |
|--|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket. | Logged by RW | JOB 9507 | FIGURE |
|--|-----------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP12

DATE 28/03/2008

Co-ords 436778E 405448N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|--------------|-----------|--------------|--------|
| 1D | 0.00-1.30 | | MADE GROUND: ? Firm, dark brown, very sandy clay with much angular fine to coarse gravel of brick, concrete and occasional cobble of brick and wood (wood <5%). (COHESIVE MADE GROUND) | | | | |
| 2D | 1.50 | | ? Stiff, orange and brown mottled sandy CLAY with occasional angular to subangular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) | 1.30 | | | |
| | | | Moderately weak to weak, orange brown, very thinly bedded SANDSTONE. Recovered as angular tabular coarse gravel in a clay matrix. (COAL MEASURES SANDSTONE) End of trial pit at 2.20 m | 2.10 2.20 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

| | | | |
|--|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket. | Logged by RW | JOB 9507 | FIGURE |
|--|-----------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP13

DATE 28/03/2008

Co-ords 436764E 405480N

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| 1D | 0.00-1.30 | | MADE GROUND: ? Soft, dark brown sandy clay with much angular fine to coarse gravel of brick, limestone, clay pipe, concrete, chalk and tarmac. (COHESIVE MADE GROUND) | | | | |
| | | | | 1.30 | | | |
| | | | MADE GROUND: ? Soft, dark brown organic clay with occasional angular fine to coarse gravel of brick. (RELICT TOPSOIL) | 1.50 | | | |
| 2D | 1.60 | | ? Stiff, brown and grey mottled CLAY with some angular to subangular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) At 1.7m: Steady inflow of groundwater, stopping after 2 minutes. | | | | |
| | | | | 2.70 | | | |
| | | | At 2.7m: Trial pit terminated on sandstone. End of trial pit at 2.70 m | | | | |

Remarks
 1. Prior to excavation a Cable Avoidance Tool survey was carried out.
 2. The sides of the trial pit remained stable during excavation.
 3. Groundwater was encountered at 1.7m during excavation.
 4. On completion the trial pit was backfilled with materials arising.

| | | | |
|--|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide straight edged bucket. | Logged by RW | JOB 9507 | FIGURE |
|--|-----------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP14

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|-----------|-----------|--------------|--------|
| 1D | 0.10 | | MADE GROUND: Blackish brown, slightly sandy, slightly gravelly clay with abundant rootlets. Gravel is subrounded, fine to coarse of mudstone, sandstone and quartz. (COHESIVE MADE GROUND) | 0.20 | | | |
| 2D | 0.40 | | Light brown, clayey, gravelly SAND. Gravel is angular fine to coarse of sandstone. (WEATHERED SANDSTONE) | 0.50 | | | |
| 3D | 0.60 | | Light brown mottled grey, gravelly, clayey SAND. Gravel is angular fine to coarse of tabular sandstone. (WEATHERED SANDSTONE) | 0.80 | | | |
| 4D | 1.00 | | Light brown mottled grey, slightly clayey, very sandy GRAVEL. Gravel is angular fine to coarse of tabular sandstone with many cobbles and some gravel sized pockets of clay. (WEATHERED SANDSTONE) | | | | |
| | | | At 2.0m: Difficult to excavate further due to hard strata- possibly sandstone. End of trial pit at 2.00 m | 2.00 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

| | | | |
|---|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide tooth bucket. | Logged by CP | JOB 9507 | FIGURE |
|---|-----------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP15

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| 1D | 0.30 | | MADE GROUND: Red mottled multicoloured, very sandy, angular fine to coarse gravel of brick, concrete, sandstone and mudstone. (BRICK FILL) | 0.30 | | | |
| | | | Light orangish brown, slightly gravelly, very clayey SAND. Gravel is angular fine to coarse of sandstone. (WEATHERED SANDSTONE) | 0.50 | | | |
| 2D | 1.20 | | Firm, light orangish brown mottled grey, very sandy, very gravelly CLAY. Gravel is angular, fine to coarse of tabular sandstone. (COMPLETELY WEATHERED SANDSTONE) | | | | |
| 3D | 2.00 | | Dark brown, slightly clayey, very sandy, angular fine to coarse GRAVEL of sandstone. (WEATHERED SANDSTONE) | 1.90 | | | |
| | | | At 2.0m: Difficult to excavate further due to hard strata-possible sandstone End of trial pit at 2.40 m | 2.40 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide tooth bucket.

Logged by

CP

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP16

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|-----------|-----------|--------------|--------|
| 1D | 0.50 | | MADE GROUND: Dark brown, sandy, very gravelly clay. Gravel is angular fine to coarse of sandstone, mudstone, brick, ceramic pipe and pottery. (COHESIVE MADE GROUND) | | | | |
| 2D | 1.10 | | Firm, yellowish brown mottled light brown, sandy, gravelly CLAY. Gravel is angular, fine to medium of sandstone with occasional cobbles of tabular sandstone. (COMPLETELY WEATHERED SANDSTONE) | 0.90 | | | |
| 3D | 2.00 | | Stiff, brown mottled grey, slightly sandy, gravelly CLAY. Gravel is angular, fine to coarse of tabular sandstone with occasional tabular cobbles of sandstone. (COMPLETLEY WEATHERED SANDSTONE) | 1.50 | | | |
| | | | At 2.6m: Unable to excavate further due to hard strata-possible sandstone End of trial pit at 2.60 m | 2.60 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide tooth bucket.

Logged by

CP

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP17

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|-----------|-----------|--------------|--------|
| 1D | 0.30 | | MADE GROUND: Dark brown, slightly clayey, very gravelly sand. Gravel is angular fine to coarse of brick, sandstone, plastic, concrete and pottery. (GRANULAR MADE GROUND) | | | | |
| 2D | 1.50 | | Yellowish brown, slightly clayey, very gravelly SAND with occasional cobbles of tabular sandstone. (WEATHERED SANDSTONE) | 1.00 | | | |
| 3D | 2.30 | | Brown, slightly clayey, very sandy, angular fine to coarse GRAVEL of tabular sandstone. (WEATHERED SANDSTONE) | 1.90 | | ▽ | |
| | | | At 2.6m: Unable to excavate further due to hard strata-possible sandstone. End of trial pit at 2.60 m | 2.60 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

| | | | |
|---|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide tooth bucket. | Logged by CP | JOB 9507 | FIGURE |
|---|-----------------|-------------|--------|

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP18

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| 1D 1J | 0.80 | | MADE GROUND: Blackish brown, slightly clayey, very gravelly sand. Gravel is angular to subangular fine to coarse of brick, plastic, ceramic, pottery and glass. Slight odour of sewage. (GRANULAR MADE GROUND) | | | | |
| 2D | 1.80 | | Firm, orangish brown mottled light brown, sandy, gravelly CLAY. Gravel is angular, fine to medium of sandstone with occasional cobbles of tabular sandstone. (COMPLETELY WEATHERED SANDSTONE) | 1.50 | | | |
| 3D | 2.50 | | Orangish brown mottled greenish grey, clayey, sandy, angular fine to coarse GRAVEL of tabular sandstone with some cobbles of sandstone. (WEATHERED SANDSTONE) | 2.10 | | | |
| | | | At 3.0m: Unable to excavate further due to hard strata-possible sandstone End of trial pit at 3.00 m | 3.00 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide tooth bucket.

Logged by

CP

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP19

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|--|-----------|-----------|--------------|--------|
| 1D | 0.20 | | MADE GROUND: Dark brown, slightly sandy clay with frequent rootlets. (COHESIVE MADE GROUND) | | | | |
| 2D | 0.50 | | | 0.60 | | | |
| 3D | 1.10 | | Soft becoming firm, orangish brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded, fine to coarse of sandstone and mudstone. (COMPLETELY WEATHERED SANDSTONE) | | | | |
| 4D | 2.20 | | Orangish brown mottled grey, sandy, very clayey angular fine to coarse GRAVEL of tabular sandstone with occasional cobbles of sandstone. (WEATHERED SANDSTONE) | 1.80 | | | |
| | | | At 2.4m: Difficult to excavate further due to hard strata-possible sandstone End of trial pit at 2.40 m | 2.40 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit remained stable during excavation.
3. Slight Groundwater seepage was encountered at 2.4m during excavation.
4. On completion the trial pit was backfilled with materials arising.

Equipment/Methods

JCB 3CX with 0.6m wide tooth bucket.

Logged by

CP

JOB

9507

FIGURE

TRIAL PIT LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray

TP20

DATE 31/03/2008

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:25

| sample no & type | depth (m) | in-situ test | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---|-----------|-----------|--------------|--------|
| 1D | 0.40 | | MADE GROUND: Dark blackish brown, slightly sandy, gravelly clay. Gravel is angular fine to coarse of brick, sandstone, concrete, pottery and ceramic pipe. (COHESIVE MADE GROUND) | | | | |
| 2D | 1.10 | | MADE GROUND: Dark brown, slightly clayey, very sandy, angular fine to coarse gravel of brick, sandstone, metal wire (2mm diameter), wood fragments (0.1m x 0.1m), concrete blocks (0.2m x 0.2m x 0.1m) and metal poles (0.4m length, 0.05m diameter). (GRANULAR MADE GROUND) | 0.60 | | | |
| | | | At 1.2m: Household heating radiator. At 1.5m: Trial pit terminated due to instability. End of trial pit at 1.50 m | 1.50 | | | |

Remarks

1. Prior to excavation a Cable Avoidance Tool survey was carried out.
2. The sides of the trial pit were unstable from 0.6m during excavation.
3. Groundwater was not apparent during excavation.
4. On completion the trial pit was backfilled with materials arising.

| | | | |
|---|-----------------|-------------|--------|
| Equipment/Methods JCB 3CX with 0.6m wide tooth bucket. | Logged by CP | JOB 9507 | FIGURE |
|---|-----------------|-------------|--------|

APPENDIX G
WINDOW SAMPLE LOGS

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS1

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/ backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|----------------|--|--------------|-----------|--------------|--------|
| 1J | 0.20-3.00 | | | <p>MADE GROUND: Black tarmac with fine to coarse gravel size aggregate. (TARMAC)</p> <p>MADE GROUND: Grey unreinforced concrete. Aggregate is subrounded fine to coarse of quartz. Air voids <5%, <5mm in diameter. (CONCRETE)</p> <p>MADE GROUND: Grey to yellow, angular to subangular, fine to coarse gravel of limestone. (SUB-BASE)</p> | 0.10 0.20 | | | |
| | | | | <p>----- End of window sample hole at 3.00 m</p> | 3.00 | | | |

Remarks

- Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
- Groundwater was not apparent during drilling.

| | | | |
|--|-----------------|-------------|--------|
| Equipment/Methods Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods. | Logged by LG | JOB 9507 | FIGURE |
|--|-----------------|-------------|--------|

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS2

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/ backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|----------------|--|-----------|-----------|--------------|--------|
| 1J | 0.80 | | | MADE GROUND: Grey unreinforced concrete. Aggregate is rounded to angular fine to coarse gravel of quartz. Air voids <5%, <5mm diameter. (CONCRETE) | 0.17 | | | |
| 2J | 1.50 | | | Orange brown gravelly CLAY. Gravel is angular to subangular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) | 1.10 | | | |
| | | | | Very stiff, orange brown sandy CLAY. (COMPLETELY WEATHERED SANDSTONE) | 1.80 | | | |
| | | | | <i>End of window sample hole at 1.83 m</i> | | | | |

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS3

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/ backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|----------------|--|--------------------------|-----------|--------------|--------|
| 1J | 0.50 | | | <p>MADE GROUND: Grey unreinforced concrete. Aggregate is angular to subangular, fine to coarse of quartz. Air voids <5%, <5mm diameter. (CONCRETE)</p> <p>MADE GROUND: Black, angular medium to coarse gravel. (GRANULAR MADE GROUND)</p> <p>Orange and grey mottled, fine to coarse gravel of sandstone with locally soft clay pockets. (WEATHERED SANDSTONE)</p> <p><i>End of window sample hole at 0.85 m</i></p> | 0.20 0.30 0.85 | | | |

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS4

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/ backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|----------------|---|-----------|-----------|--------------|--------|
| 1B | 0.00-0.19 | | | <p>MADE GROUND: Light brown unreinforced concrete. Aggregate is angular to rounded, fine to coarse of quartz. Air voids <5%, <5mm diameter. (CONCRETE)</p> <p>Orange clayey fine to coarse SAND with some angular to subangular gravel of sandstone. (WEATHERED SANDSTONE)</p> <p>Firm orange with some grey mottling, CLAY. (COMPLETELY WEATHERED SANDSTONE)</p> <p><i>End of window sample hole at 1.10 m</i></p> | 0.19 | | | |
| 1J | 0.50 | | | | 0.90 | | | |
| 2B | 0.90 | | | | 1.10 | | | |

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS5

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/ backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|----------------|--|-----------|-----------|--------------|--------|
| 1J | 0.30 | | | <p>MADE GROUND: Light brown unreinforced concrete. Aggregate is angular to rounded, fine to coarse of quartz. Air voids <5%, <5mm in diameter (CONCRETE)</p> <p>MADE GROUND: Soft, grey, orange mottled clay with angular to subangular gravel sized fragments of fine to coarse concrete limestone and brick . (COHESIVE MADE GROUND)</p> <p>Soft to firm, orange brown sandy CLAY. (COMPLETELY WEATHERED SANDSTONE)</p> <p>Stiff, orange and grey mottled sandy CLAY. (COMPLETELY WEATHERED SANDSTONE)</p> <p><i>End of window sample hole at 1.10 m</i></p> | 0.20 | | | |
| 2J | 0.50 | | | | 0.40 | | | |
| | | | | | 0.60 | | | |
| | | | | | 1.10 | | | |

Remarks
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
 2. Groundwater was not apparent during drilling.

| | | | |
|--|-----------------|-------------|--------|
| Equipment/Methods Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods. | Logged by LG | JOB 9507 | FIGURE |
|--|-----------------|-------------|--------|

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS6

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---------------|---|-----------|-----------|--------------|--------|
| 1J | 0.60 | | | MADE GROUND: Light brown unreinforced concrete. Aggregate is angular to rounded, fine to coarse of quartz. Air voids <5%, <5mm diameter. (CONCRETE) | 0.15 | | | |
| | | | | MADE GROUND: Yellow, angular to subangular, medium to coarse gravel of limestone. (SUB-BASE) | 0.35 | | | |
| | | | | Firm to stiff, orange and grey mottled sandy CLAY. (COMPLETELY WEATHERED SANDSTONE) | | | | |
| | | | | <i>End of window sample hole at 2.00 m</i> | 2.00 | | | |

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS7

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/ backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|----------------|---|-----------|-----------|--------------|--------|
| 1B | 0.00-0.17 | | | MADE GROUND: Grey unreinforced concrete. Aggregate is subrounded of mixed lithologies. Air voids <5%, <5mm diameter. (CONCRETE) | 0.17 | | | |
| 2J | 0.60 | | | Orange and grey mottled CLAY with angular to subangular cobbles of limestone and sandstone. (COMPLETELY WEATHERED SANDSTONE) | 0.70 | | | |
| | | | | Very stiff, orange and grey mottled, sandy CLAY. (COMPLETELY WEATHERED SANDSTONE) | | | | |
| | | | | <i>End of window sample hole at 1.90 m</i> | 1.90 | | | |

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS8

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---------------|---|-----------|-----------|--------------|--------|
| 1J | 0.50 | | | MADE GROUND: Brown unreinforced concrete. Aggregate is subrounded of sandstone and quartz. Air voids <5%, <5mm diameter. (CONCRETE) | 0.16 | | | |
| | | | | Orange and grey, fine to coarse sandy CLAY with some (30%) gravel of sandstone and angular tabular sandstone. (COMPLETELY WEATHERED SANDSTONE) <i>End of window sample hole at 0.90 m</i> | 0.90 | | | |

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS9

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---------------|---|--------------|-----------|--------------|--------|
| 1J | 0.30 | | | MADE GROUND: Brown unreinforced concrete. Aggregate is subrounded of sandstone, and quartz. Air voids <5%, <5mm diameter. (CONCRETE) | 0.15 0.40 | | | |
| 2J | 0.90 | | | MADE GROUND: Grey, angular to subangular, fine to coarse gravel of limestone. (SUB-BASE) Orange and grey mottled sandy CLAY with occasional angular tabular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) <i>End of window sample hole at 1.00 m</i> | 1.00 | | | |

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

WINDOW SAMPLE LOG



CLIENT Haslam Homes Ltd

SITE Leslie Road, Kendray, Barnsley

WS10

DATE 1 Apr 08

Co-ords

Sheet 1 of 1

Ground Level

Scale 1:50

| sample no & type | depth (m) | in-situ test | well/backfill | description | depth (m) | level (m) | ground water | legend |
|------------------|-----------|--------------|---------------|--|------------------|-----------|--------------|--------|
| 1J | 0.50 | | | MADE GROUND: Grey unreinforced concrete. Aggregate is subrounded to rounded fine to coarse of quartz. Air voids <5%, <5mm diameter. (CONCRETE) | 0.01 | | | |
| 2J | 1.50 | | | MADE GROUND: Black and red, sandy angular to subangular, fine to coarse gravel of brick, tarmac, ash and clinker and occasional cobbles of brick. (ASH & CLINKER) Orange and grey mottled sandy CLAY with occasional angular tabular fine to coarse gravel of sandstone. (COMPLETELY WEATHERED SANDSTONE) <i>End of window sample hole at 1.50 m</i> | 0.80 1.50 | | | |

Remarks

1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out.
2. Groundwater was not apparent during drilling.

Equipment/Methods

Window sample hole advanced by percussive methods using 120mm and 90mm sampling rods.

Logged by

LG

JOB

9507

FIGURE

**APPENDIX H
CHEMICAL TEST RESULTS**

APPENDIX I
GEOTECHNICAL TEST RESULTS



2139

Certificate of Analysis

Date: 18/04/2008

Certificate Number: 08-18664

Client: Professional Soils Laboratory Ltd
5/7 Hexthorpe Road
Hexthorpe
DN4 0AR

Our Reference: 08-18664

Client Reference: PSL08/0812

Contract Title: Leslie Road

Description: 8 soil samples

Date Received: 10/04/2008

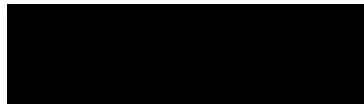
Date Started: 10/04/2008

Date Completed: 18/04/2008

Test Procedures: Identified by prefix DETSn, details available upon request.

Notes: Observations and interpretations are outside the scope of UKAS accreditation
* denotes test not included in laboratory scope of accreditation
denotes test that holds MCERT accreditation
\$ denotes tests completed by approved subcontractors
I/S denotes insufficient sample to carry out test
N/S denotes that the sample is not suitable for testing
DETSM denotes tests carried out by DETS Midlands laboratory
Solid samples will be disposed 1 month and liquids 2 weeks
after the date of issue of this test certificate

Approved By:



Authorised Signatories: Rob Brown
Business Manager

Page 1 of 3

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Summary of Chemical Analysis

Soil Samples

Our Ref: 08-18664
 Client Ref: PSL08/0812
 Contract Title: Leslie Road

| Lab No. | 127709 | 127710 | 127711 | 127712 | 127713 |
|-------------|--------|--------|--------|--------|--------|
| Sample Ref | TP1 | TP4 | TP6 | TP8 | TP10 |
| Depth | 1.00 | 1.20 | 1.00 | 0.60 | 0.90 |
| Other Ref | | | | | |
| Sample Type | | | | | |

| Test | Units | DETSxx | | | | | |
|---------------------------------|-------|-----------|--------|--------|--------|--------|--------|
| Chloride Aqueous Extract | g/l | DETS 055 | < 0.01 | 0.02 | < 0.01 | < 0.01 | < 0.01 |
| Nitrate Aqueous Extract as NO3 | g/l | DETS 055 | < 0.01 | 0.02 | < 0.01 | < 0.01 | < 0.01 |
| Magnesium Aqueous Extract | g/l | DETS 042 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Sulphate Aqueous Extract as SO4 | g/l | DETS 076# | 0.06 | 0.16 | 0.06 | 0.08 | 0.04 |
| pH | | DETS 008# | 7.2 | 8.2 | 8.4 | 7.7 | 8.2 |

**Summary of Chemical Analysis
Soil Samples**

Our Ref: 08-18664
 Client Ref: PSL08/0812
 Contract Title: Leslie Road

| | | | |
|--------------------|--------|--------|--------|
| Lab No. | 127714 | 127715 | 127716 |
| Sample Ref | TP14 | TP19 | TP19 |
| Depth | 0.60 | 1.10 | 2.20 |
| Other Ref | | | |
| Sample Type | | | |

| Test | Units | DETSxx | | | |
|---------------------------------|--------------|---------------|--------|--------|--------|
| Chloride Aqueous Extract | g/l | DETS 055 | 0.02 | < 0.01 | < 0.01 |
| Nitrate Aqueous Extract as NO3 | g/l | DETS 055 | < 0.01 | < 0.01 | < 0.01 |
| Magnesium Aqueous Extract | g/l | DETS 042 | < 0.01 | < 0.01 | < 0.01 |
| Sulphate Aqueous Extract as SO4 | g/l | DETS 076# | 0.05 | 0.04 | 0.05 |
| pH | | DETS 008# | 8.4 | 8.3 | 7.6 |

Schedule of Accreditation
 issued by
United Kingdom Accreditation Service
 21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK



Accredited to
 ISO/IEC 17025:2005

Professional Soils Laboratory Ltd

Issue No: 002 Issue date: 09 November 2007

5/7 Hexthorpe Road
 Hexthorpe
 Doncaster
 DN4 0AG

Contact: Mr A Watkins
 Tel: +44 (0)870 240 1964
 Fax: +44 (0)870 240 1965
 E-Mail: awatkin@prosoils.co.uk
 Website: www.prosoils.co.uk

Testing performed at the above address only

DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|---|---|--|
| AGGREGATES SOILS for civil engineering purposes | Particle size distribution - sieving method | BS EN 933-1:1997 |
| | Moisture content - oven drying method | BS 1377-2:1990 |
| | Liquid limit - cone penetrometer | BS 1377-2:1990 |
| | Liquid limit - cone penetrometer - one point | BS 1377-2:1990 |
| | Plastic limit | BS 1377-2:1990 |
| | Plasticity index and liquidity index | BS 1377-2:1990 |
| | Particle density - gas jar | BS 1377-2:1990 |
| | Particle size distribution - wet sieving | BS 1377-2:1990 |
| | Particle size distribution - dry sieving | BS 1377-2:1990 |
| | Particle size distribution - sedimentation - pipette method | BS 1377-2:1990 |
| | Dry density/moisture content relationship (2.5 kg rammer) | BS 1377-4:1990 |
| Dry density/moisture content relationship (4.5 kg rammer) | BS 1377-4:1990 | |



4043
Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK


Professional Soils Laboratory Ltd
Issue No: 002 Issue date: 09 November 2007

Testing performed at main address only

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--------------------------------------|--|--|
| SOILS for civil engineering purposes | California Bearing Ratio (CBR) <i>(loads from 0.2 to 50 kN)</i> | BS 1377-4:1990 |
| | Moisture condition value (MCV) | BS 1377-4:1990 |
| | MCV - natural moisture content | BS 1377:Part 4:1990 |
| | MCV/moisture content relation | BS 1377:Part 4:1990 |
| | Uniformity coefficient (221 2217) | BS 6100-2.2.1:1992 |
| END | | |

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

| Trial Pit Number | Sample Number | Depth m | Description of Sample |
|------------------|---------------|------------|--|
| TP1 | | 1.00 | Dark brown sandy CLAY. |
| TP2 | | 1.50 | Brown mottled grey slightly gravelly sandy CLAY. |
| TP6 | | 1.00 | Brown gravelly very sandy CLAY. |
| TP8 | | 0.60 | Brown mottled grey gravelly sandy CLAY. |
| TP12 | | 1.50 | Brown mottled grey slightly gravelly sandy CLAY. |
| TP17 | | 1.50 | Brown mottled grey gravelly sandy CLAY. |
| TP19 | | 1.10 | Brown slightly gravelly very sandy CLAY. |
| | | | |
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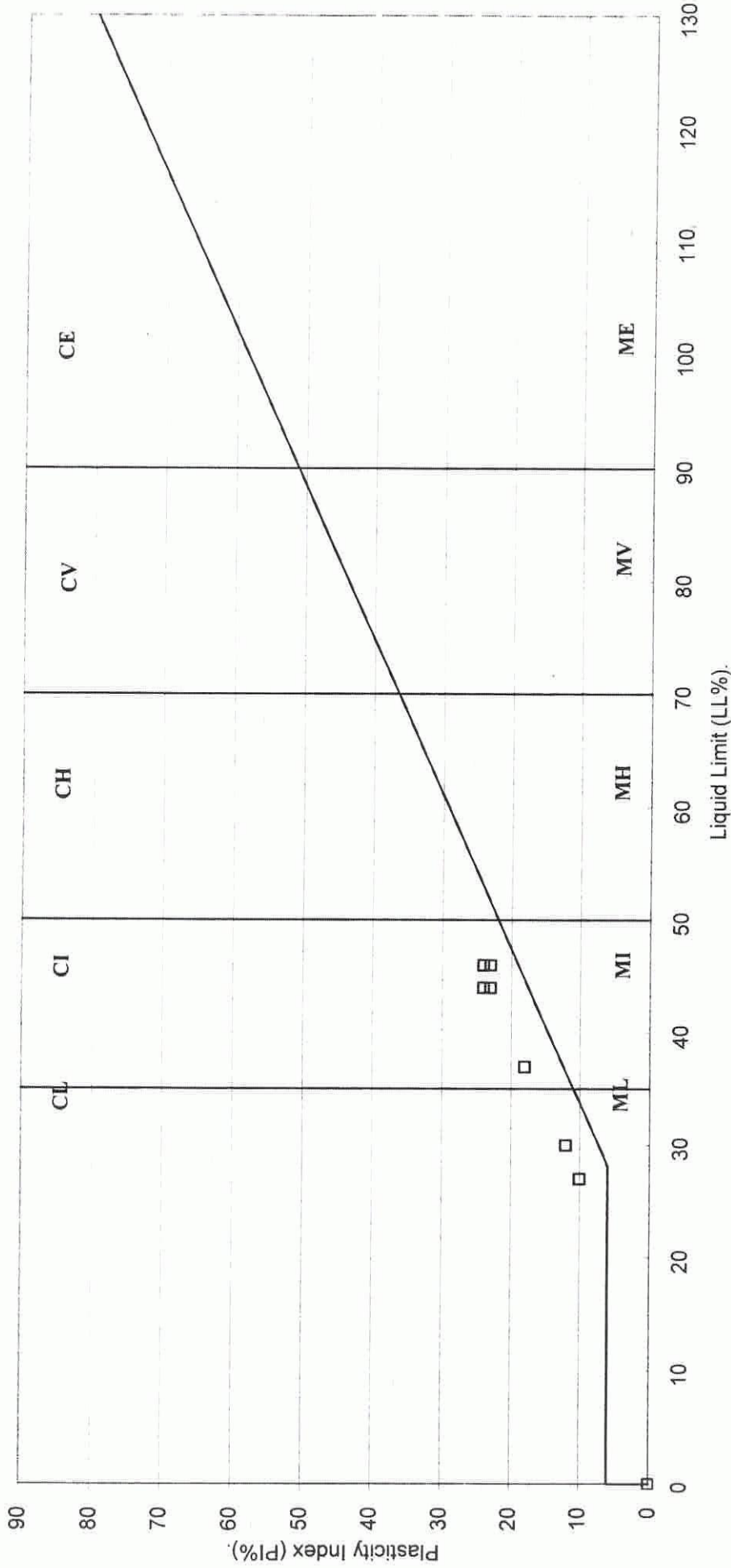
Professional Soils Laboratory

LESLIE ROAD.

| | | | | | |
|--------------------|-------------|-------------------|-------------|--------------------|--------------------------------|
| Compiled by | Date | Checked by | Date | Approved by | Date |
| [Redacted] | 15/01/09 | [Redacted] | 15/4/09 | [Redacted] | 15/4/08 |
| | | | | | Contract No: PSL08/0812 |
| | | | | | Client Ref: 9507 |

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



PST
Professional Soils Laboratory

| Compiled by | Date | Checked by | Date | Approved by | Date |
|-------------|---------|------------|---------|-------------|---------|
| [Redacted] | 15/4/08 | [Redacted] | 15/4/08 | [Redacted] | 15/4/08 |

LESLIE ROAD.
Contract No: PSL08/0812
Client Ref: 9507