

ISSUE 02

CONCEPT

SITE INVESTIGATION REPORT

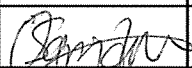


48 Elsworthy Road
London
NW3 3BU

Prepared for: Mr & Mrs Swycher

Concept: 11/2405- FR 02

08/11/2011

Unit 8, Warple Mews,
Warple Way
London W3 0RF
Tel: 020 8811 2880
Fax: 020 8811 2881
e-mail: si@conceptconsultants.co.uk
www.conceptconsultants.co.uk

| DOCUMENT ISSUE REGISTER | | | | | | |
|-------------------------|------------------|-----------------------------------|---|--|---|---|
| Job Title: | | 48 Elsworthy Road, London NW3 3BU | | | | |
| Job Number: | | 11/2405 | | | | |
| Document Type: | | Factual Site Investigation Report | | | | |
| Document Ref: | Status/Issue No. | Date | Amendment Record (Detail) | | | |
| 112405/FR-01 | Issue 01 | 24/10/2011 | | | | |
| | | | | Prepared By: | Checked By: | Approved By: |
| | | | Name | O Savvidou | M Dedic | M Dedic |
| | | | Signature | | | |
| Document Ref: | Status/Issue No. | Date | Amendment Record (Detail) | | | |
| 112405/FR-02 | Issue 02 | 08/11/2011 | Updated with monitoring and laboratory test results | | | |
| | | | | Prepared By: | Checked By: | Approved By: |
| | | | Name | O Savvidou | M Dedic | M Dedic |
| | | | Signature |  |  |  |
| Document Ref: | Status/Issue No. | Date | Amendment Record (Detail) | | | |
| | | | | | | |
| | | | | Prepared By: | Checked By: | Approved By: |
| | | | Name | | | |
| | | | Signature | | | |
| Document Ref: | Status/Issue No. | Date | Amendment Record (Detail) | | | |
| | | | | | | |
| | | | | Prepared By: | Checked By: | Approved By: |
| | | | Name | | | |
| | | | Signature | | | |

CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews, Warple Way, London W3 0RF

Tel: 020 8811 2880 Fax: 020 8811 2881

e-mail: si@conceptconsultants.co.uk

CONCEPT SITE INVESTIGATIONS

CONTENTS

- 1. PROJECT PARTICULARS**
- 2. SCOPE OF WORKS**
- 3. DESCRIPTION OF WORKS**
 - 3.1 Cable Percussion Boreholes**
 - 3.2 Trial Pits**
 - 3.3 Standpipe Installations**
 - 3.4 Gas / Groundwater Monitoring**
 - 3.5 Logging / Laboratory Testing**
 - 3.6 Setting Out**
- 4. SITE LOCATION PLAN**
- 5. EXPLORATORY HOLE LOCATION PLAN**
- 6. CABLE PERCUSSION BOREHOLE LOGS**
- 7. TRIAL PIT LOGS & SKETCHES**
- 8. GAS / GROUNDWATER MONITORING RESULTS**
- 9. LABORATORY TEST RESULTS**
- 10. CHEMICAL TEST RESULTS**
- 11. PHOTOGRAPHS**

CONCEPT SITE INVESTIGATIONS

1. PROJECT PARTICULARS

Site Location: 48 Elsworthy Road, London NW3 3BU
Client: Mr & Mrs Swycher
Engineer: Milk Structures
Date of Fieldwork: 22/09/2011 – 30/09/2011

2. SCOPE OF WORKS

- 3 No Cable Percussion Boreholes to a maximum depth of 15.00m
- 5 No Hand Excavated Trial Pits to a maximum depth of 1.70m
- Geotechnical and Chemical Laboratory Testing

3. DESCRIPTION OF WORKS

3.1 Cable Percussion Boreholes

3 No. cable percussion boreholes (BH01-BH03) were carried out to a maximum depth of 15.00m below existing ground level using a restricted access (low headroom) cable percussion drilling rig using 150mm diameter equipment. Inspection pits were hand excavated to 1.20m prior to boring commencing.

Bulk samples were taken at regular intervals in the Made Ground and granular material or at each change in stratum. Undisturbed 102mm nominal diameter (U100) samples were taken in BH01 using a down-hole sliding hammer at 3.00m intervals in cohesive material. No undisturbed samples were taken in BH02 and BH03.

Standard penetration tests (SPT) were carried at regular intervals in BH02 and BH03 and alternated with undisturbed samples in BH01. The resulting SPT N values are presented in the relevant borehole records. Where an SPT using the split shoe sampler was not possible, because of the granular nature of the material, a solid cone was used.

Small, disturbed samples were either retrieved from the cutting shoe of the undisturbed sample or material was collected within the SPT split spoon sampler. Small disturbed samples were also collected between the SPT and the following attempt for an undisturbed sample.

Groundwater observations, carried out during the fieldworks are reported in the relevant borehole log presented in Section 6.

3.2 Trial Pits

5 No Trial Pits (TP01-TP05) were hand excavated to a maximum depth of 1.70m depth to investigate the extent and nature of the existing foundations at locations specified by the Engineer.

Bulk samples for soil analyses were taken at regular intervals or as instructed by the Engineer.

CONCEPT SITE INVESTIGATIONS

Plastic tubs, borosilicate jars and vial samples for chemical analysis were taken at each change in strata and where visual or olfactory evidence of contamination was noted or as instructed by the Engineer. Roots samples for identification were also collected.

All trial pits were backfilled with soil arisings and made good upon completion.

The trial pit logs and sketches are presented in Section 7 of this report.

3.3 Standpipe Installations

Monitoring standpipes were installed in boreholes as follows:

| | Diameter of Installation | Type of Installation | Base (m bgl) | Top RZ (m bgl) | Bottom RZ (m bgl) |
|------|--------------------------|----------------------|--------------|----------------|-------------------|
| BH01 | 50mm | G/GW | 8.00 | 1.00 | 8.00 |
| BH02 | 50mm | G/GW | 6.00 | 1.00 | 6.00 |
| BH03 | 50mm | G/GW | 6.00 | 1.00 | 6.00 |

G/GW - Gas & Groundwater standpipe

Table 3.1 Standpipe Installation Details

3.4 Gas / Groundwater Monitoring

Gas and groundwater monitoring was carried out by Concept subsequent to completion of the site works.

Boreholes have been monitored for gas concentrations using a Gas data LMSXiG3.18 gas monitor. This instrument measures the following gases to the following levels of accuracy:

| | Range | Typical Accuracy |
|------------------------------|---------------------|-------------------------|
| Methane | 0 – 100% | 0.2% @ 5%, 1.0% at 30% |
| LEL | 0 – 100% LEL | 4% LEL |
| Carbon Dioxide | 0 – 100% | 0.1% @ 10%, 3% @ 50% |
| Oxygen | 0 – 25% | 0.5% |
| Hydrogen Sulphate | 200 ppm | 5% of fs |
| Carbon Monoxide | 1000 ppm | 5% of fs |
| Atmospheric Pressure | 800 – 1200 mbar | 5mbar |
| Flow Range | 0.1 to 20 l/hr | |
| Flow Resolution | 0.1l/hr | |
| Differential Pressure | -0.1mbar to 0.8mbar | |

The results of the post fieldwork monitoring visits are presented in Section 8 of this report.

3.5 Logging / Laboratory Testing

Logging of all soil samples was carried out in accordance with BS 5930:1999 incorporating Amendment No.2 (Aug '10).

All geotechnical testing is performed at Concept Site Investigations laboratory in accordance with BS1377:1990 unless otherwise stated in the report. Concept is accredited by UKAS for tests where the UKAS logo is appended to the individual test report or summary. Approved signatories for laboratory testing are as follows:

- JR – Jon Roberts (Quality Manager)
- KM – Kasia Mazerant (Laboratory Manager)
- JF – Justyna Fokt (Senior Laboratory Technician)

Where subcontracted analysis has been carried out, the details of the laboratory (and accreditation where applicable) are shown in the individual test report or summary.

The laboratory test results are presented in tabular formats in Section 9 of this report.

Root identification was carried out by EPSL. The results are presented in Section 9 of this report.

All chemical testing has been carried out by Scientifics in accordance with the requirements of UKAS ISO17025 and ISO17020. The results are presented in tabular format in Section 10 of this report.

3.6 Setting Out

The locations of all exploratory holes and the trial pits were agreed with the Engineer and set out prior to commencement of the site works.

The locations of the boreholes and trial pits are shown in the Exploratory Hole Location Plan in Section 5 of this report.

CONCEPT SITE INVESTIGATIONS

REFERENCES

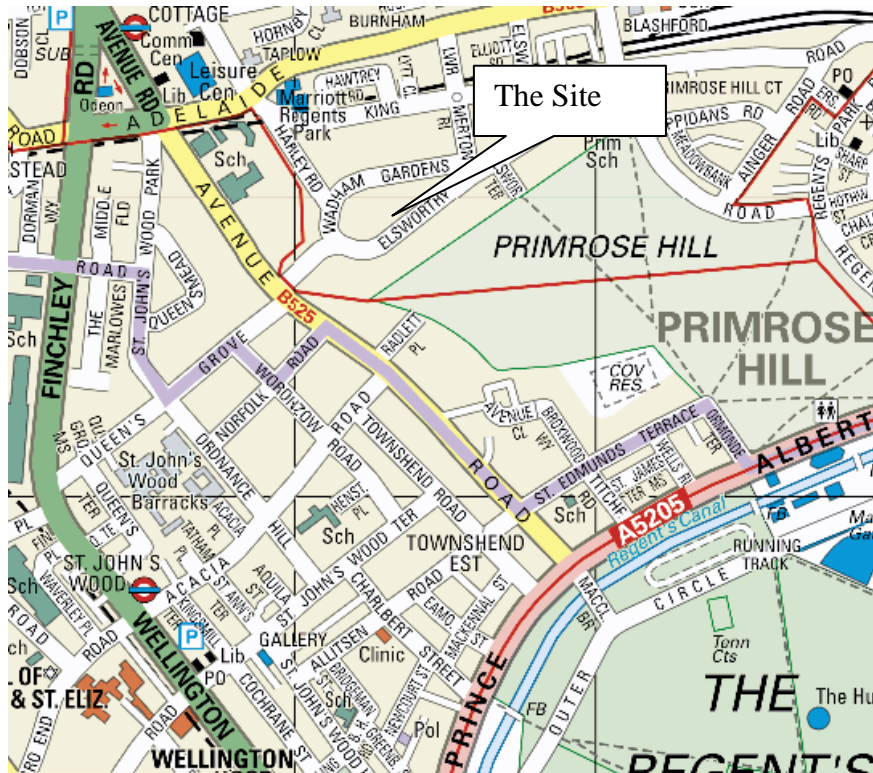
British Standards Institution, (1999) Code of practice for site investigations, British Standard BS 5930: 1999 incorporating Amendment No.2 (Aug '10), BSI, London

British Standards Institution, (2001) Investigation of potentially contaminated sites, British Standard BS10175: 2001, BSI, London.

Specification for Ground Investigation, (1999) Site Investigation Steering Group, Thomas Telford, London

British Geological Survey (1996) London and the Thames Valley 4th Edition, London HMSO

4. SITE LOCATION PLAN



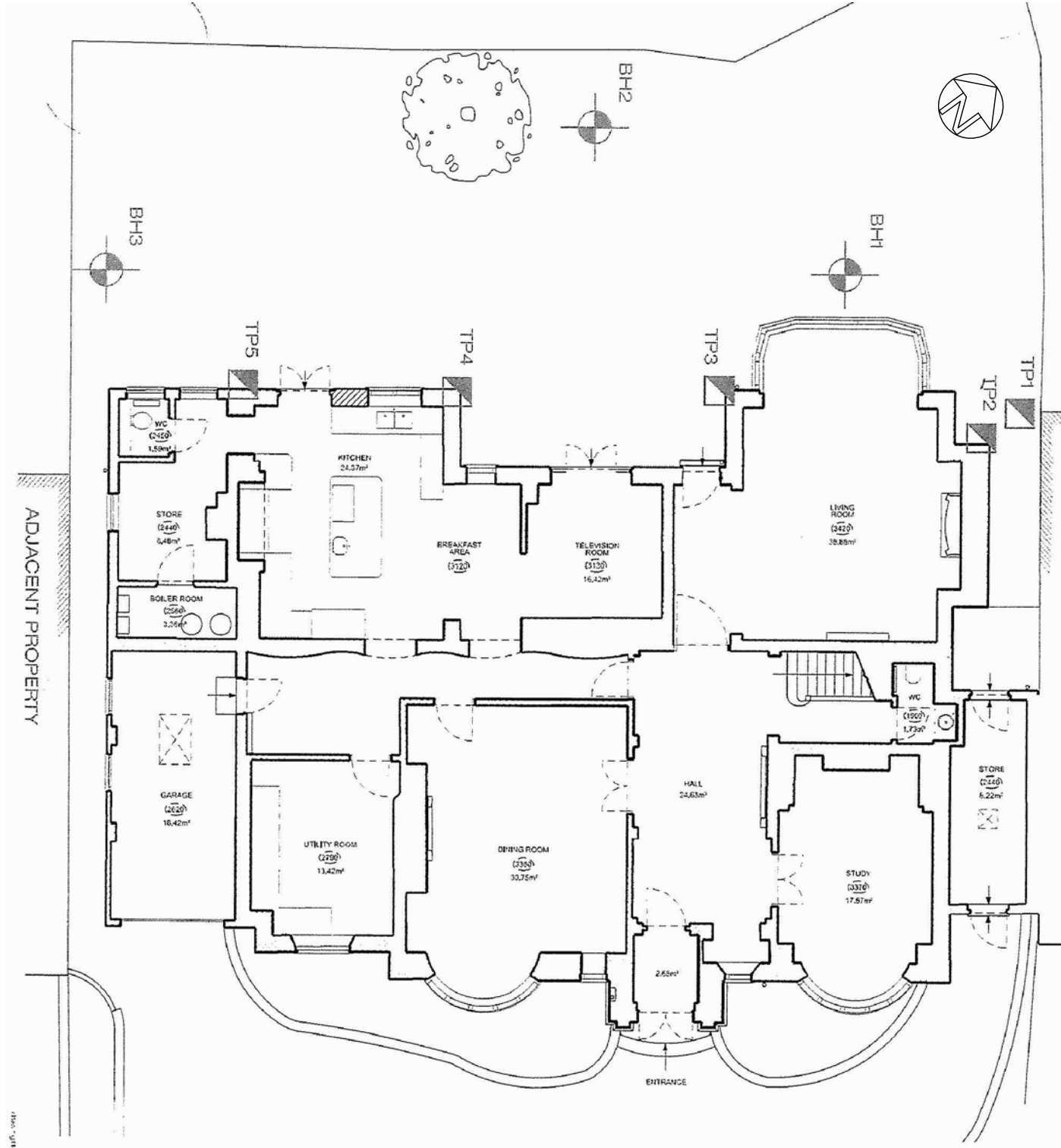
Not to Scale © Crown Copyright reserved

CONCEPT SITE INVESTIGATIONS

5. EXPLORATORY HOLE LOCATION PLAN

NOTES

1. This drawing should not be scaled.



| No | Revision | Drawn | Checked | Passed | Date |
|----|----------|-------|---------|--------|------|
| | | | | | |

CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews
Warple Way
London W3 0RF
e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Tel: 020 8811 2880
Fax: 020 8811 2881

| | | | | | |
|-------------|--------------------------------------|--------------|-------------------|--|--|
| Client: | Mr & Mrs Swycher | | | | |
| Project: | 48 Elsworthy Road, London NW3 3BU | | | | |
| Title: | Exploratory Hole Location Plan | | | | |
| Dwg. No.: | 112405/01 | | | | |
| Status: | Issue | | | | |
| Scale: | NTS | | | | |
| Drawn OS | Checked DS | Passed MD | Date Sept 2011 | | |

CONCEPT SITE INVESTIGATIONS

6. CABLE PERCUSSION BOREHOLE LOGS

CONCEPT SITE INVESTIGATIONS

8 Warple Mews, Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

BH01

Project

48 Elsworthy Road, London NW3 3BU

| | | | | |
|-----------------------------------|--|---------------------------|--|------------------------------|
| Job No 11/2405 | Date Started 29/09/11 Date Completed 29/09/11 | Ground Level (mOD) | Co-Ordinates | Final Depth 15.00m |
| Client Mr & Mrs Swycher | | | Method/ Plant Used Restricted Access Cable Percussion | Sheet 1 of 2 |

| PROGRESS | | | STRATA | | | | SAMPLES & TESTS | | | Field Records | Instrument/ Backfill |
|----------|--------|-------|-------------|--------|-------------------|---|-----------------|---------|-------------|-------------------|-------------------------|
| Date | Casing | Water | Level (mOD) | Legend | Depth (Thickness) | Strata Description | Depth (m) | Type No | Test Result | | |
| 29/09/11 | | Dry | | | 0.23 | Slates (0.03m) over yellow coarse sand. (MADE GROUND) | 0.50 | B01 | | | |
| | | | | | (0.87) | Dark brown and brown locally mottled grey slightly sandy slightly gravelly clay with occasional pockets of orange silt and powdered lime. Gravel comprises brick, chalk and concrete fragments. (MADE GROUND) | 1.00 | B02 | | | |
| | | | | | 1.10 | (MADE GROUND) | 1.20-1.65 | U03 | 18 blows | | |
| 29/09/11 | 1.50 | Dry | | | (1.40) | Dark grey with black flecks and brown silty clay with occasional pockets of black carbonaceous material (20x25mm) occasional angular fine to medium flint gravel, brick fragments and slight organic odour. (MADE GROUND) | 1.70 | D04 | | | |
| | | | | | 2.50 | | 2.00-2.50 | B05 | | | |
| | | | | | | Soft to firm, brown occasionally mottled bluish grey silty CLAY with rare pockets of orangish brown slightly sandy silt (20x25mm). (WEATHERED LONDON CLAY FORMATION) | 2.70 | D06 | N7 | 1, 1 / 1, 2, 2, 2 | |
| | | | | | | | 2.70 | | | | |
| | | | | | | | 3.50-4.00 | B07 | | | |
| | | | | | | | 4.00-4.45 | U08 | 42 blows | | |
| | | | | | | | 4.50 | D09 | | | |
| | | | | | | | 5.00 | D10 | | | |
| | | | | | | | 5.50-5.95 | D11 | N16 | 2, 2 / 3, 4, 4, 5 | |
| | | | | | | | 5.50 | | | | |
| | | | | | (7.30) | | 6.50 | D12 | | | |
| | | | | | | | 7.00-7.40 | U13 | 80 blows | | |
| | | | | | | | 7.45 | D14 | | | |
| | | | | | | ... with a band of claystone between 7.40m and 7.60m | 8.00 | D15 | | | |
| | | | | | | | 8.50-8.95 | D16 | N17 | 2, 2 / 3, 4, 5, 5 | |
| | | | | | | | 8.50 | | | | |
| | | | | | | | 9.50 | D17 | | | |

| Chiselling (m) | | | Water Added (m) | | GENERAL REMARKS |
|----------------|----|-------|-----------------|----|-----------------|
| From | To | Hours | From | To | |
| | | | | | |

1. An inspection pit was hand excavated to 1.20m below ground level prior to boring commencing.
2. Ø150mm casing used from ground level to 2.90m depth.
3. Ø50mm monitoring well installed at 8.00m, slotted between 1.00m and 8.00m depth.
4. Borehole backfilled with cement / bentonite grout from 15.00m to 9.00m bentonite pellets from 9.00m to 8.00m, pea shingle between 8.00m to 1.00m and with bentonite pellets from 1.00m to 0.20m depth. Concrete with stopcock cover installed between 0.20m and ground level.




















| | | | | |
|-----------|----|---------|----|-----|
| Issue No. | 02 | Driller | SW | AGS |
|-----------|----|---------|----|-----|

8 Warple Mews, Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk




BH01

48 Elsworthy Road, London NW3 3BU

| PROGRESS | | | STRATA | | | | SAMPLES & TESTS | | | Field Records | Instrument/ Backfill | | |
|----------|--------|-------|-------------|---|-------------------|---|----------------------|-----------------|-------------|---------------|-------------------------|--|--|
| Date | Casing | Water | Level (mOD) | Legend | Depth (Thickness) | Strata Description | Depth (m) | Type No | Test Result | | | | |
| 29/09/11 | 1.50 | Dry | |  | 9.80 | | | | | | 2, 3 / 5, 5, 6, 8 |  | |
| | | | |  | | Firm, greyish brown slightly micaceous silty CLAY. (LONDON CLAY FORMATION) | 10.00-10.45 | U18 | 70 blows | | | | |
| | | | |  | | ... with rare shell fragments at 10.50m | 10.50 | D19 | | | | | |
| | | | |  | | | 11.00-11.50 | B20 | | | | | |
| | | | |  | | | 11.50-11.95 11.50 | D21 | N24 | | | | |
| | | | |  | | | | | | | | | |
| | | | |  | | | 12.50 | D22 | | | | | |
| | | | |  | | ... becoming slightly sandy with occasional bioturbation at 12.50m | 13.00-13.45 | U23 | 72 blows | | | | |
| | | | |  | | | 13.50 | D24 | | | | | |
| | | | |  | | | 14.00 | D25 | | | | | |
| | | | |  | | | 14.50-14.95 14.50 | D26 | N28 | | | | |
| | | | |  | | | | | | | | | |
| | | | |  | | | | | | | | | |
| | | | |  | | | | | | | | | |
| | | | |  | | | | | | | | | |
| | | | |  | | | | | | | | | |
| | | | |  | | | | | | | | | |
| | | | |  | | | | | | | | | |
| | | | | | | | | End of Borehole | | | | | |

| Chiselling (m) | | | Water Added (m) | | GENERAL REMARKS |
|----------------|----|-------|-----------------|----|-----------------|
| From | To | Hours | From | To | |
| | | | | | |

| | | |
|--------------|------------|---|
| Issue No. 02 | Driller SW |  |
|--------------|------------|---|

CONCEPT SITE INVESTIGATIONS

8 Warple Mews, Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

BH02

Project

48 Elsworthy Road, London NW3 3BU

| | | | | |
|-----------------------------------|--|---------------------------|--|-----------------------------|
| Job No 11/2405 | Date Started 29/09/11 Date Completed 30/09/11 | Ground Level (mOD) | Co-Ordinates | Final Depth 6.00m |
| Client Mr & Mrs Swycher | | | Method/ Plant Used Restricted Access Cable Percussion | Sheet 1 of 1 |

| PROGRESS | | | STRATA | | | | SAMPLES & TESTS | | | Field Records | Instrument/ Backfill |
|----------|--------|-------|-------------|--------|-------------------|---|-----------------|---------|-------------|---------------|-------------------------|
| Date | Casing | Water | Level (mOD) | Legend | Depth (Thickness) | Strata Description | Depth (m) | Type No | Test Result | | |
| 29/09/11 | | Dry | | | 0.20 | Slates (0.03m) over yellow coarse sand. (MADE GROUND) | 0.50 | B01 | | | |
| | | | | | (0.65) | Dark brownish grey clayey gravelly sand. Gravel comprises fine to coarse subangular to rounded flint, brick and concrete fragments. (MADE GROUND) | 1.00 | B02 | | | |
| 29/09/11 | | Dry | | | (0.95) | Brown mottled bluish grey slightly gravelly CLAY. Gravel comprises subangular to rounded fine to coarse flint and rare concrete fragments. (MADE GROUND) | 1.50-1.95 | D03 | | | |
| 30/09/11 | 1.60 | Dry | | | 1.80 | ... becoming dark greyish brown slightly sandy with extremely closely spaced partings of reddish brown silt at 1.50m | 1.50 | | N5 | | |
| | | | | | (0.85) | Dark greenish grey slightly sandy CLAY with occasional black flecks and generally rounded fine to coarse flint gravel with slight organic odour. (ALLUVIUM) | 2.00-2.50 | B04 | | | |
| | | | | | 2.65 | Soft to firm, brown locally mottled bluish grey CLAY with rare pockets of orangish brown silt (3x2mm). (WEATHERED LONDON CLAY FORMATION) | 3.00-3.45 | D05 | | | |
| | | | | | (3.35) | ... with rare pockets of light grey calcareous silt (5x7mm) at 3.50m | 3.00 | | N6 | | |
| | | | | | | ... with rare pockets of orange slightly sandy silt (10x15mm) and occasional selenite crystals at 4.50m | 3.50-4.00 | B06 | | | |
| | | | | | | ... with semi decayed rootlets at 5.00m | 4.50-4.95 | D07 | | | |
| | | | | | | | 4.50 | | N12 | | |
| | | | | | | | 5.00 | D08 | | | |
| | | | | | | | 5.50-5.95 | D09 | | | |
| | | | | | | | 5.50 | | N15 | | |
| 30/09/11 | 1.60 | Dry | | | 6.00 | End of Borehole | | | | | |

| Chiselling (m) | | | Water Added (m) | | GENERAL REMARKS 1. An inspection pit was hand excavated to 1.20m below ground level prior to boring commencing. 2. Ø150mm casing used from ground level to 1.60m depth. 3. Ø50mm monitoring well installed at 6.00m, slotted between 1.00m and 6.00m depth. 4. Borehole backfilled with pea shingle between 6.00m to 1.00m and with bentonite pellets from 1.00m to 0.20m depth. Concrete with stopcock cover installed between 0.20m and ground level. |
|----------------|----|-------|-----------------|----|--|
| From | To | Hours | From | To | |
| | | | | | |

| | | | | |
|-----------|----|---------|----|--|
| Issue No. | 02 | Driller | SW | |
|-----------|----|---------|----|--|

CONCEPT SITE INVESTIGATIONS

8 Warple Mews, Warple Way
London W3 0RF
Telephone: 020 8811 2880_Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Borehole No

BH03

Project

48 Elsworthy Road, London NW3 3BU

| | | | | |
|-----------------------------------|---------------------------------|---|------------------------|-----------------------------|
| Job No 11/2405 | Date Started 30/09/11 | Ground Level (mOD) | Co-Ordinates | Final Depth 6.00m |
| Date Completed 30/09/11 | | | | |
| Client Mr & Mrs Swycher | Method/ Plant Used | Restricted Access Cable Percussion | Sheet 1 of 1 | |

| PROGRESS | | | STRATA | | | | SAMPLES & TESTS | | | Field Records | Instrument/ Backfill |
|----------|--------|-------|-------------|--------|-------------------|---|-----------------|---------|-------------|-------------------|-------------------------|
| Date | Casing | Water | Level (mOD) | Legend | Depth (Thickness) | Strata Description | Depth (m) | Type No | Test Result | | |
| 30/09/11 | | Dry | | | 0.20 | Slates (0.03m) over yellow coarse sand. (MADE GROUND) | 0.50 | B01 | | | |
| | | | | | (1.60) | Dark greyish brown and brown stained reddish brown slightly sandy slightly gravelly clay. Gravel comprises fine to coarse brick fragments and rare angular to subangular flint and chalk fragments. (MADE GROUND) | 1.00 | B02 | | | |
| | | | | | 1.80 | | 1.50-2.00 | B03 | N3 | 1, 0 / 1, 0, 1, 1 | |
| | | | | | 2.45 | | 1.50 | | | | |
| 30/09/11 | 2.50 | Dry | | | (0.65) | Soft, brown mottled dark grey slightly sandy slightly gravelly CLAY with occasional black flecks and slight organic odour. Gravel comprises fine to coarse brick fragments and rare angular medium flint. (MADE GROUND) | 2.00-2.50 | B04 | | | |
| | | | | | 2.45 | ... becoming grey below 2.00m | 2.50-2.95 | D05 | N8 | 1, 1 / 2, 1, 2, 3 | |
| | | | | | | Soft to firm, brown mottled bluish grey slightly micaceous CLAY with occasional pockets of orangish brown silt (3x5mm) and rare cream calcareous silt nodules (5x7mm). (WEATHERED LONDON CLAY) | 2.50 | | | | |
| | | | | | | ... with semi decayed rootlets at 2.50m | 3.50-4.00 | B06 | | | |
| | | | | | (3.55) | | 4.00-4.45 | D07 | N13 | 1, 2 / 2, 3, 4, 4 | |
| | | | | | | | 4.00 | | | | |
| | | | | | | ... with occasional selenite crystals at 5.00m | 5.00 | D08 | | | |
| | | | | | | | 5.50-5.95 | D09 | N16 | 2, 2 / 3, 3, 5, 5 | |
| | | | | | | | 5.50 | | | | |
| 30/09/11 | 2.50 | Dry | | | 6.00 | End of Borehole | | | | | |

| Chiselling (m) | | | Water Added (m) | | GENERAL REMARKS |
|----------------|----|-------|-----------------|----|------------------------|
| From | To | Hours | From | To | |
| | | | | | |

1. An inspection pit was hand excavated to 1.20m below ground level prior to boring commencing.
2. Ø150mm casing used from ground level to 2.30m depth.
3. Ø50mm monitoring well installed at 6.00m, slotted between 1.00m and 6.00m depth.
4. Borehole backfilled with pea shingle between 6.00m to 1.00m and with bentonite pellets from 1.00m to 0.20m depth. Concrete with stopcock cover installed between 0.20m and ground level.

Issue No. 02

Driller SW



CONCEPT SITE INVESTIGATIONS

7. TRIAL PIT LOGS & SKETCHES

CONCEPT SITE INVESTIGATIONS

8 Warple Mews, Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Trial Pit No

TP01

Project

48 Elsworthy Road, London NW3 3BU

| | | | | |
|----------------------------|--|--------------------|--------------------------------------|----------------------|
| Job No 11/2405 | Date Started 22/09/11 Date Completed 22/09/11 | Ground Level (mOD) | Co-Ordinates | Final Depth 1.10m |
| Client Mr & Mrs Swycher | | | Method/ Plant Used Hand Excavated | Sheet 1 of 1 |

| STRATA | | | | | SAMPLES & TESTS | | | Field Records |
|--------|----------------|--------|----------------------|--|--------------------------|------------------------|----------------|---|
| Water | Level (mOD) | Legend | Depth (Thickness) | Strata Description | Depth | Type No | Test Result | |
| | | | (0.15) 0.15 | MADE GROUND: Paving slabs (0.05m) over orangish / yellow slightly gravelly medium to coarse SAND. (Ballast). | | | | ... Frequent roots and rootlets encountered through the trial pit. |
| | | | (0.65) 0.80 | MADE GROUND: Dark greyish brown sandy gravelly clay. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of brick, tile, flint and rare chalk. | 0.30 0.30 0.50 | ES01 B02 B03 | | |
| | | | (0.30) 1.10 | Firm, dark greyish brown silty slightly sandy CLAY. (POSSIBLE WEATHERED LONDON CLAY FORMATION) | | | | |
| | | | | End of Trial Pit | 1.10 1.10 1.10 | ES04 B05 R06 | | |

GENERAL REMARKS

1. Weather was sunny and dry.
2. Trial pit was dry and stable.
3. Trial pit dimensions: 0.40m x 0.40m x 1.10m deep.
4. Trial pit backfilled with soil arising upon completion.
5. Also refer to TP01 sketch.

Issue No.
01

Logged By
JS



CONCEPT SITE INVESTIGATIONS

8 Warple Mews, Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Trial Pit No

TP02

Project

48 Elsworthy Road, London NW3 3BU

| | | | | |
|----------------------------|--|--------------------|--------------------------------------|----------------------|
| Job No 11/2405 | Date Started 22/09/11 Date Completed 22/09/11 | Ground Level (mOD) | Co-Ordinates | Final Depth 1.30m |
| Client Mr & Mrs Swycher | | | Method/ Plant Used Hand Excavated | Sheet 1 of 1 |

| STRATA | | | | | SAMPLES & TESTS | | | Field Records |
|--------|-------------|--------|-------------------|---|-----------------|---------|-------------|---|
| Water | Level (mOD) | Legend | Depth (Thickness) | Strata Description | Depth | Type No | Test Result | |
| | | | 0.15 | MADE GROUND: Paving slabs (0.05m) over orangish / yellow slightly gravelly medium to coarse SAND. (Ballast). | | | | ... Frequent roots and rootlets encountered to 0.40m depth. |
| | | | | MADE GROUND: Dark greyish brown sandy gravelly clay. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of brick, tile, flint and rare chalk. | 0.30 | B01 | | |
| | | | | | 0.50 | ES02 | | ... Occasional roots and rootlets encountered to 1.30m depth. |
| | | | | | 0.50 | B03 | | |
| | | | 1.30 | | | | | |
| | | | | End of Trial Pit | 1.30 | ES04 | | |
| | | | | | 1.30 | B05 | | |
| | | | | | 1.30 | R06 | | |

GENERAL REMARKS

1. Weather was sunny and dry.
2. Trial pit was dry and stable.
3. Trial pit dimensions: 0.50m x 0.60m x 1.30m deep.
4. Trial pit backfilled with soil arisings upon completion.
5. Also refer to TP02 sketch.

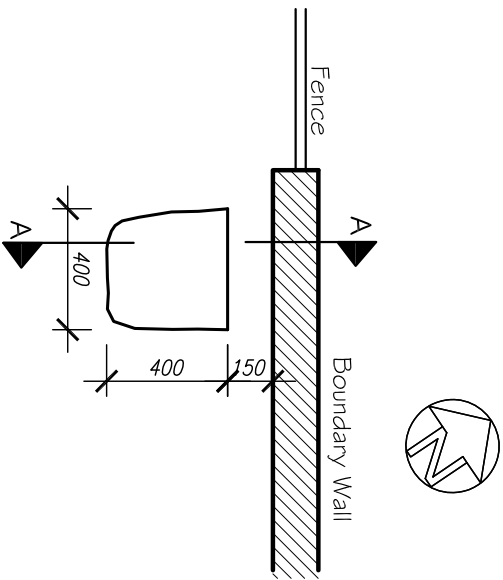
Issue No. 01

Logged By JS

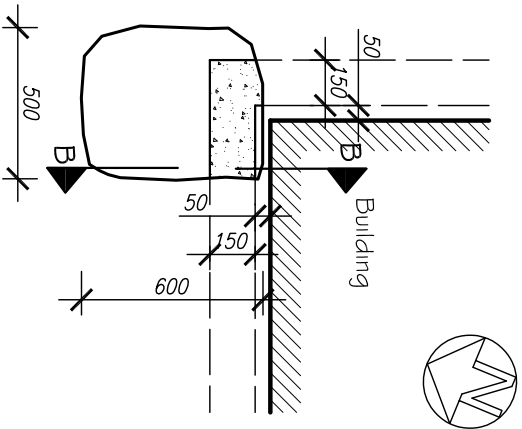


NOTES

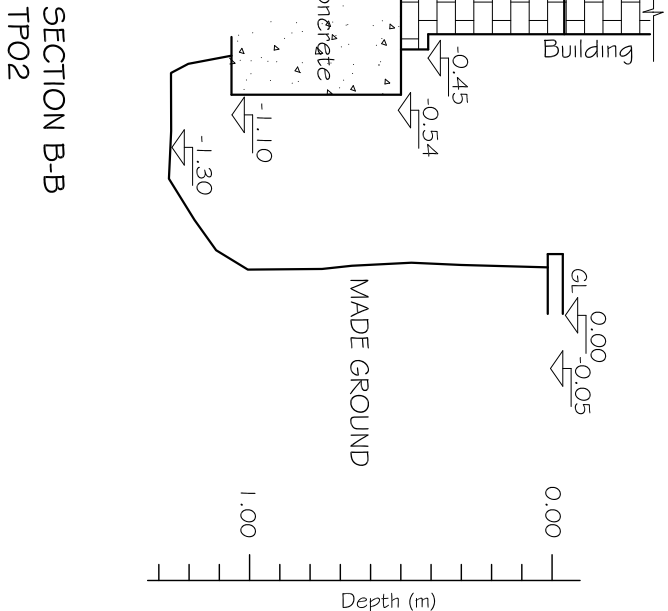
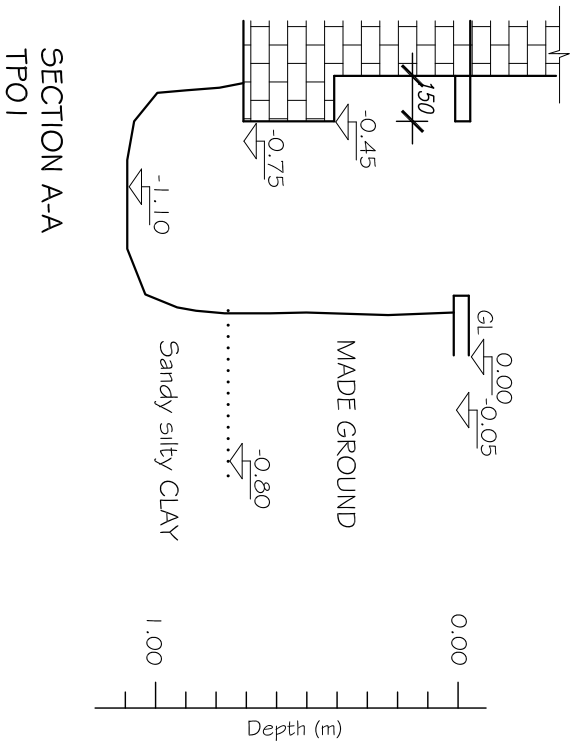
- 1. This drawing should not be scaled, only use annotated dimensions.
- 2. Also refer to TPO1 & TPO2 logs.



PLAN TPO1



PLAN TPO2



| | | | | | |
|----|----------|-------|---------|--------|------|
| No | Revision | Drawn | Checked | Passed | Date |
| | | | | | |

CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews
Warple Way
London W3 0RF
e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Tel: 020 8811 2880
Fax: 020 8811 2881

| | | | |
|-------------|--|--------------|-------------------|
| Client: | Mr & Mrs Swycher | | |
| Project: | 48 Elsworthy Road, London NW3 3BU | | |
| Title: | TP01 & TP02 Plan & Sections A-A & B-B | | |
| Dwg. No: | 112405/02 | | |
| Status: | Issue | | |
| Scale: | 1:25 | | |
| Drawn OS | Checked JS | Passed MD | Date Sept 2011 |

CONCEPT SITE INVESTIGATIONS

8 Warple Mews, Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Trial Pit No

TP03

Project

48 Elsworthy Road, London NW3 3BU

| | | | | |
|-----------------------------------|--|---------------------------|--|-----------------------------|
| Job No 11/2405 | Date Started 23/09/11 Date Completed 23/09/11 | Ground Level (mOD) | Co-Ordinates | Final Depth 1.70m |
| Client Mr & Mrs Swycher | | | Method/ Plant Used Hand Excavated | Sheet 1 of 1 |

| STRATA | | | | | SAMPLES & TESTS | | | Field Records |
|--------|-------------|--------|-------------------|--|-----------------|---------|-------------|--|
| Water | Level (mOD) | Legend | Depth (Thickness) | Strata Description | Depth | Type No | Test Result | |
| | | | | TOPSOIL (0.05m) over brick and concrete rubble. | | | | ... Roots and rootlets encountered to 0.80m depth. |
| | | | (0.60) | | 0.30 | B01 | | |
| | | | 0.60 | | 0.60 | ES02 | | |
| | | | | MADE GROUND: Light brown CLAY with brick and concrete fragments. | 0.60 | B03 | | |
| | | | (0.60) | | 0.80 | R04 | | |
| | | | 1.20 | | | | | |
| | | | | MADE GROUND(?) : Light brown sandy CLAY with occasional gravel. | | | | |
| | | | (0.50) | | | | | |
| | | | 1.70 | | 1.70 | ES05 | | |
| | | | | End of Trial Pit | 1.70 | B06 | | |

GENERAL REMARKS

1. Weather was sunny and dry.
2. Trial pit was stable.
3. Standing water level upon completion at 1.70m below ground level.
4. Trial pit dimensions: 0.31m x 0.45m x 1.70m deep.
5. Trial pit backfilled with soil arisings upon completion.
6. Also refer to TP03 sketch.

Issue No. 01

Logged By JS



CONCEPT SITE INVESTIGATIONS

8 Warple Mews, Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Trial Pit No

TP04

Project

48 Elsworthy Road, London NW3 3BU

| | | | | |
|-----------------------------------|--|---------------------------|--|-----------------------------|
| Job No 11/2405 | Date Started 22/09/11 Date Completed 22/09/11 | Ground Level (mOD) | Co-Ordinates | Final Depth 1.50m |
| Client Mr & Mrs Swycher | | | Method/ Plant Used Hand Excavated | Sheet 1 of 1 |

| STRATA | | | | | SAMPLES & TESTS | | | Field Records |
|--------|-------------|--------|-------------------|---|-----------------|---------|-------------|--|
| Water | Level (mOD) | Legend | Depth (Thickness) | Strata Description | Depth | Type No | Test Result | |
| | | | (0.50) | TOPSOIL: Dark brown organic sandy silt. | 0.30 | B01 | | ... Frequent roots and rootlets encountered through the trial pit. |
| | | | 0.50 | | 0.50 | B02 | | |
| | | | (0.80) | MADE GROUND: Dark greyish brown sandy gravelly clay. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of brick, tile, flint and rare chalk. | 0.80 | ES03 | | |
| | | | 1.30 | | | | | |
| | | | (0.20) | Dark greyish brown silty slightly sandy CLAY. (POSSIBLE WEATHERED LONDON CLAY FORMATION) | | | | |
| | | | 1.50 | | 1.50 | ES04 | | |
| | | | | End of Trial Pit | 1.50 | B05 | | |
| | | | | | 1.50 | R06 | | |

GENERAL REMARKS

1. Weather was sunny and dry.
2. Trial pit was dry and stable.
3. Trial pit dimensions: 0.30m x 0.50m x 1.50m deep.
4. Trial pit backfilled with soil arising upon completion.
5. Also refer to TP04 sketch.

Issue No. 01

Logged By JS



CONCEPT SITE INVESTIGATIONS

8 Warple Mews, Warple Way
London W3 0RF
Telephone: 020 8811 2880 Fax: 020 8811 2881
E-mail: si@conceptconsultants.co.uk



Trial Pit No

TP05

Project

48 Elsworthy Road, London NW3 3BU

| | | | | |
|--|--|---------------------------|--|-----------------------------|
| Job No 11/2405 | Date Started 22/09/11 Date Completed 22/09/11 | Ground Level (mOD) | Co-Ordinates | Final Depth 1.50m |
| Client Mr & Mrs Swycher | | | Method/ Plant Used Hand Excavated | Sheet 1 of 1 |

| STRATA | | | | | SAMPLES & TESTS | | | Field Records |
|--------|-------------|--------|-------------------|---|-----------------|---------|-------------|---|
| Water | Level (mOD) | Legend | Depth (Thickness) | Strata Description | Depth | Type No | Test Result | |
| | | | (0.15) | MADE GROUND: Paving slabs (0.05m) over orangish / yellow slightly gravelly medium to coarse SAND. (Ballast). | | | | ... Frequent roots and rootlets encountered to 0.30m depth. |
| | | | 0.15 | | | | | |
| | | | | MADE GROUND: Dark greyish brown sandy gravelly clay. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of brick, tile, flint and rare chalk. | 0.30 | ES01 | | ... Occasional roots and rootlets encountered to 0.60m depth. |
| | | | | | 0.30 | B02 | | |
| | | | | | 0.50 | ES03 | | |
| | | | | | 0.50 | B04 | | |
| | | | | | 0.50 | R05 | | |
| | | | (1.35) | | | | | |
| | | | 1.50 | | | | | |
| | | | | End of Trial Pit | 1.50 | ES06 | | |
| | | | | | 1.50 | B07 | | |

GENERAL REMARKS

1. Weather was sunny and dry.
2. Trial pit was dry and stable.
3. Trial pit dimensions: 0.40m x 0.55m x 1.50m deep.
4. Trial pit backfilled with soil arising upon completion.
5. Also refer to TP05 sketch.

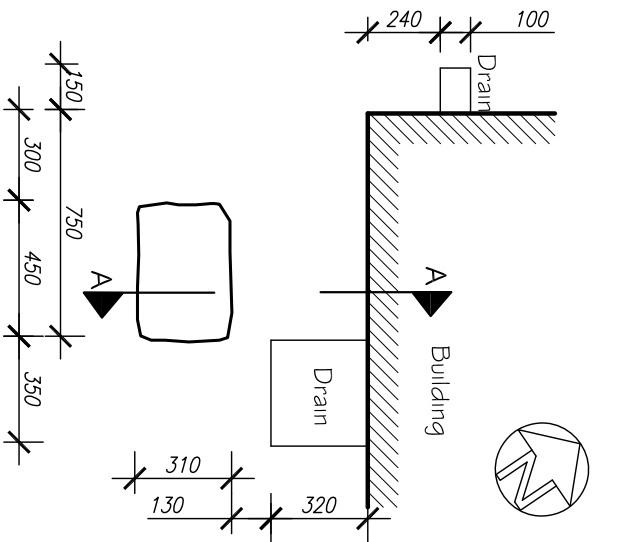
Issue No. 01

Logged By JS

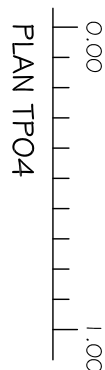
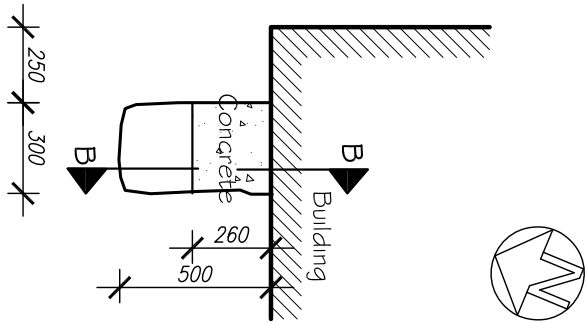


NOTES

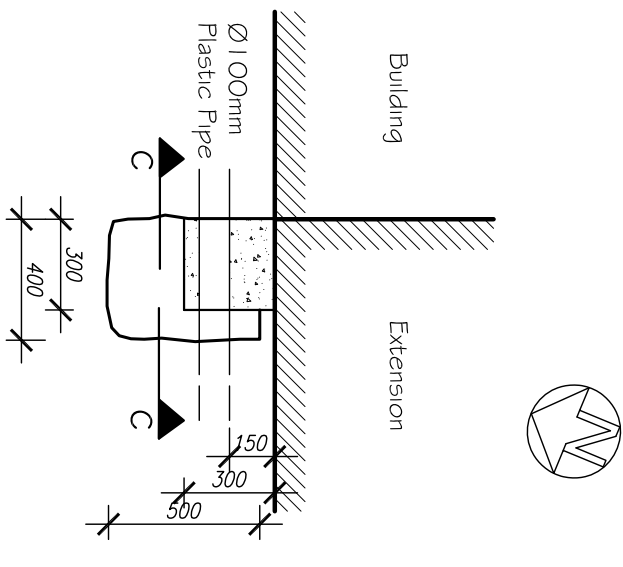
1. This drawing should not be scaled, only use annotated dimensions.
2. Also refer to TPO3, TPO4 & TPO5



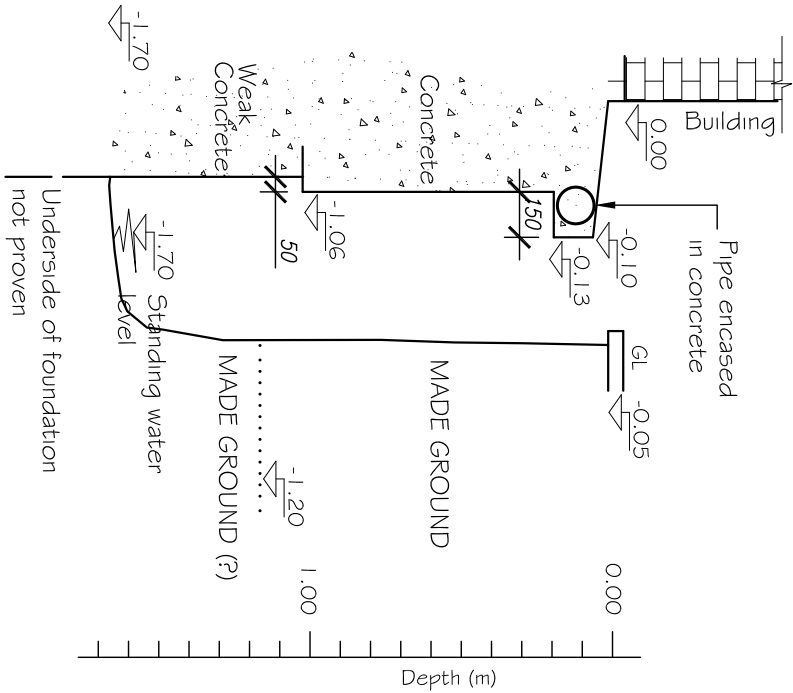
PLAN TPO3



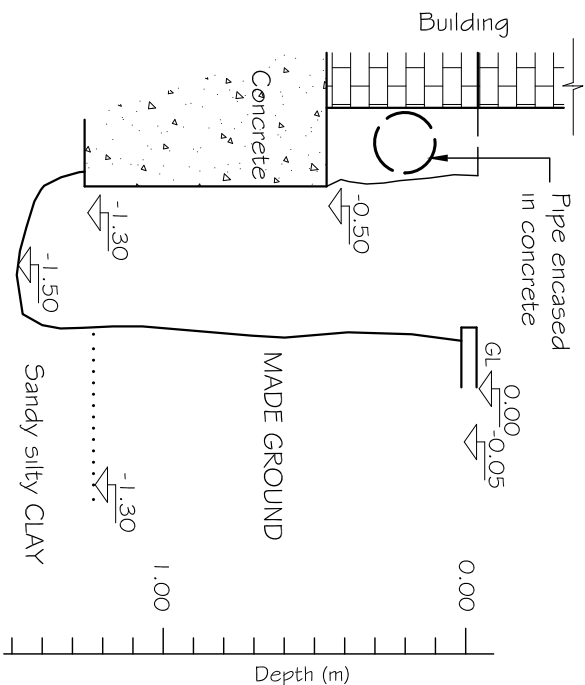
PLAN TPO4



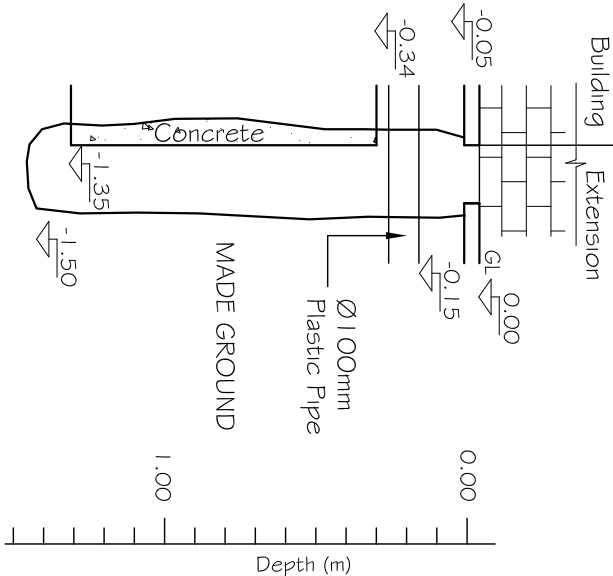
PLAN TPO5



SECTION A-A
TPO3



SECTION B-B
TPO4



SECTION C-C
TPO5

| | | | | | |
|----|----------|-------|---------|--------|------|
| No | Revision | Drawn | Checked | Passed | Date |
| | | | | | |

CONCEPT SITE INVESTIGATIONS

Unit 8, Warple Mews
Warple Way
London W3 0RF
e-mail: concept@conceptconsultants.co.uk
www.conceptconsultants.co.uk

Tel: 020 8811 2880
Fax: 020 8811 2881

| | | | | |
|----------|--|-----------|-------------------|--|
| Client: | Mr & Mrs Swycher | | | |
| Project: | 48 Elsworthy Road, London NW3 3BU | | | |
| Title: | TPO3, TPO4 & TPO5 Plan & Sections A-A,B-B & C-C | | | |
| Dwg. No: | 112405/03 | | | |
| Status: | Issue | | | |
| Scale: | 1:25 | | | |
| Drawn OS | Checked JS | Passed MD | Date Sept 2011 | |

CONCEPT SITE INVESTIGATIONS

8. GAS / GROUNDWATER MONITORING RESULTS

| Borehole | Depth of Installation | Date of Installation | Type | Top | Bottom | Date & Time | Depth (mbgl) | Depth (mOD) | Remarks |
|----------|-----------------------|----------------------|------|------|--------|---------------------|--------------|-------------|---------|
| BH01 | 8.00 | 29/09/2011 | SP | 1.00 | 8.00 | 07/10/2011 17:00:00 | 5.86 | | |
| | 8.00 | 29/09/2011 | SP | 1.00 | 8.00 | 21/10/2011 16:10:00 | 5.31 | | |
| | 8.00 | 29/09/2011 | SP | 1.00 | 8.00 | 28/10/2011 14:10:00 | 5.05 | | |
| | 8.00 | 29/09/2011 | SP | 1.00 | 8.00 | 04/11/2011 13:50:00 | 4.78 | | |
| BH02 | 6.00 | 30/09/2011 | SP | 1.00 | 6.00 | 07/10/2011 16:20:00 | 6.91 | | |
| | 6.00 | 30/09/2011 | SP | 1.00 | 6.00 | 21/10/2011 15:45:00 | 4.69 | | |
| | 6.00 | 30/09/2011 | SP | 1.00 | 6.00 | 28/10/2011 14:50:00 | 3.89 | | |
| | 6.00 | 30/09/2011 | SP | 1.00 | 6.00 | 04/11/2011 14:20:00 | 3.04 | | |
| BH03 | 6.00 | 30/09/2011 | SP | 1.00 | 6.00 | 07/10/2011 16:00:00 | 5.71 | | |
| | 6.00 | 30/09/2011 | SP | 1.00 | 6.00 | 21/10/2011 15:20:00 | 4.75 | | |
| | 6.00 | 30/09/2011 | SP | 1.00 | 6.00 | 28/10/2011 15:20:00 | 4.34 | | |
| | 6.00 | 30/09/2011 | SP | 1.00 | 6.00 | 04/11/2011 14:50:00 | 3.99 | | |

GENERAL REMARKS

CONCEPT SITE INVESTIGATIONS

8 Warple Mews, Warple Way
 London W3 0RF
 Telephone: 020 8811 2880_Fax: 020 8811 2881
 E-mail: si@conceptconsultants.co.uk



GROUNDWATER MONITORING

Project: 48 Elsworthy Road, London NW3 3BU

Client: Mr & Mrs Swycher

Job No: 11/2405

| JOB DETAILS | | | | | | | | | | | | |
|-------------|-----------------------------------|--|---------|---------|--|-------|-----------|--|--|--|--|--|
| Location: | 48 Elsworthy Road, London NW3 3BU | | | | | | Engineer: | | | | | |
| Date: | 07/10/2011 | | Job No: | 11/2405 | | Time: | 17:00 | | | | | |

| METEOROLOGICAL AND SITE INFORMATION | | | | | | | | | | | | |
|-------------------------------------|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|---------------------------------|----------|--|--|--|--|
| State of ground: | <input checked="" type="checkbox"/> | Dry | <input type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | | | | | | |
| Wind: | <input type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input checked="" type="checkbox"/> | Moderate | <input type="checkbox"/> | Strong | | | | |
| Cloud cover: | <input type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input checked="" type="checkbox"/> | Cloudy | <input type="checkbox"/> | Overcast | | | | |
| Precipitation | <input type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> | Heavy | | | | |
| Barometric pressure (mb): | <input type="text" value="1013"/> | | Temperature (°) | | | | <input type="text" value="15"/> | | | | | |

| INSTRUMENTATION USED | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% | | | | | | | | | | | |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|-------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH01 | | 5.86 | 1013 | 0 | 0 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 2.6 | 16.7 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 3.0 | 16.5 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 2.9 | 16.5 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 3.9 | 15.8 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 4.0 | 15.7 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 3.9 | 15.8 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 3.1 | 16.4 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 3.2 | 16.3 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 3.2 | 16.2 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 3.3 | 16.2 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 3.4 | 16.1 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 3.4 | 16.1 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 3.4 | 16.0 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 3.4 | 16.0 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 3.4 | 16.0 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 3.4 | 16.0 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 2.6 | 16.8 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 3.4 | 16.1 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 3.4 | 16.0 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 2.9 | 16.4 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 3.5 | 16.0 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 3.4 | 16.0 | 0.0 | 0.0 | |

| | | | |
|--------------------|-----------------------------------|----------------|------------------|
| JOB DETAILS | | | |
| Location: | 48 Elsworthy Road, London NW3 3BU | | Engineer: |
| Date: | 07/10/2011 | Job No: | 11/2405 |
| Time: | 16:20 | | |

| | | | | | | | |
|--|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|--------------------------|
| METEOROLOGICAL AND SITE INFORMATION | | | | | | | |
| State of ground: | <input checked="" type="checkbox"/> | Dry | <input type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | |
| Wind: | <input type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input checked="" type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Cloud cover: | <input type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input checked="" type="checkbox"/> | Cloudy | <input type="checkbox"/> |
| Precipitation | <input checked="" type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Barometric pressure (mb): | <input type="text" value="1013"/> | | Temperature (°) | | <input type="text" value="15"/> | | |

| | |
|-----------------------------|--|
| INSTRUMENTATION USED | |
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|-------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH02 | | 6.91 | 1013 | 0 | 0 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.2 | 17.6 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.2 | 15.2 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.0 | 19.1 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.6 | 15.5 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.7 | 15.0 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.5 | 15.0 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 0.1 | 19.1 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 0.4 | 15.8 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 0.4 | 16.5 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 0.4 | 17.0 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 0.4 | 16.9 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 0.4 | 16.3 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 0.4 | 16.1 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 0.4 | 16.2 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 0.4 | 16.3 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 0.4 | 17.1 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.3 | 17.2 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.1 | 19.2 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.1 | 19.5 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.4 | 16.7 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.4 | 16.1 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.4 | 16.1 | 0.0 | 0.0 | |

| | | | |
|--------------------|-----------------------------------|----------------|------------------|
| JOB DETAILS | | | |
| Location: | 48 Elsworthy Road, London NW3 3BU | | Engineer: |
| Date: | 07/10/2011 | Job No: | 11/2405 |
| Time: | 16:00 | | |

| | | | | | | | |
|--|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|--------------------------|
| METEOROLOGICAL AND SITE INFORMATION | | | | | | | |
| State of ground: | <input checked="" type="checkbox"/> | Dry | <input type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | |
| Wind: | <input type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input checked="" type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Cloud cover: | <input type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input checked="" type="checkbox"/> | Cloudy | <input type="checkbox"/> |
| Precipitation | <input checked="" type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Barometric pressure (mb): | <input type="text" value="1013"/> | | Temperature (°) | | <input type="text" value="15"/> | | |

| | |
|-----------------------------|--|
| INSTRUMENTATION USED | |
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|-------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH03 | | 5.71 | 1013 | 0 | 0 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.0 | 17.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.0 | 17.5 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.0 | 17.4 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.2 | 15.8 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.1 | 15.9 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.1 | 15.9 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 0.0 | 16.9 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.0 | 17.2 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.0 | 16.8 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.1 | 16.9 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.0 | 16.1 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | |

| | | | | | |
|--------------------|-----------------------------------|----------------|---------|------------------|-------|
| JOB DETAILS | | | | | |
| Location: | 48 Elsworthy Road, London NW3 3BU | | | Engineer: | JS |
| Date: | 21/10/2011 | Job No: | 11/2405 | Time: | 16:10 |

| | | | | | | | |
|--|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|-------------------------------------|
| METEOROLOGICAL AND SITE INFORMATION | | | | | | | |
| State of ground: | <input checked="" type="checkbox"/> | Dry | <input type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | |
| Wind: | <input checked="" type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input checked="" type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Cloud cover: | <input type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input checked="" type="checkbox"/> | Cloudy | <input checked="" type="checkbox"/> |
| Precipitation | <input checked="" type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Barometric pressure (mb): | <input type="text" value="1017"/> | | Temperature (°) | | <input type="text" value="10"/> | | |

| | |
|-----------------------------|--|
| INSTRUMENTATION USED | |
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|--------------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH01 | | 5.31 | 1017 | 0 | 0 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 3.1 | 17.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 3.5 | 17.3 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 3.6 | 17.3 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 3.7 | 17.3 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 5.4 | 16.2 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 5.0 | 16.4 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 3.6 | 17.3 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 3.5 | 17.3 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 3.6 | 17.2 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 3.7 | 17.2 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 3.9 | 17.0 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 3.9 | 16.9 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 3.9 | 16.9 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 3.9 | 16.9 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 3.9 | 16.9 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 3.9 | 16.9 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 3.9 | 17.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 3.9 | 16.9 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 3.9 | 16.8 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 3.8 | 17.2 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 4.0 | 16.7 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 4.0 | 16.7 | 0.0 | 0.0 | |

| | | | | | |
|--------------------|-----------------------------------|----------------|---------|------------------|-------|
| JOB DETAILS | | | | | |
| Location: | 48 Elsworthy Road, London NW3 3BU | | | Engineer: | JS |
| Date: | 21/10/2011 | Job No: | 11/2405 | Time: | 15:45 |

| | | | | | | | |
|--|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|--------------------------|
| METEOROLOGICAL AND SITE INFORMATION | | | | | | | |
| State of ground: | <input checked="" type="checkbox"/> | Dry | <input type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | |
| Wind: | <input type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input checked="" type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Cloud cover: | <input type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input checked="" type="checkbox"/> | Cloudy | <input type="checkbox"/> |
| Precipitation | <input checked="" type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Barometric pressure (mb): | <input type="text" value="1017"/> | | Temperature (°) | | <input type="text" value="10"/> | | |

| | |
|-----------------------------|--|
| INSTRUMENTATION USED | |
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|-------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH02 | | 4.69 | 1017 | 0 | 0 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 1.1 | 15.0 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.6 | 16.1 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.3 | 17.6 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 1.8 | 11.8 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 1.7 | 11.7 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 1.6 | 11.9 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 0.4 | 16.9 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 0.8 | 15.2 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 1.1 | 13.9 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 1.2 | 14.1 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 1.2 | 14.1 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 1.2 | 13.8 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 1.3 | 13.7 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 1.3 | 13.6 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 1.3 | 16.5 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 1.4 | 13.4 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 1.4 | 13.6 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 1.0 | 14.7 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 1.0 | 14.7 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.6 | 16.9 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.8 | 15.6 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 1.1 | 14.6 | 0.0 | 0.0 | |

| JOB DETAILS | | | | | | | | | | | | |
|------------------|-----------------------------------|--|----------------|---------|--|--------------|------------------|----|--|--|--|--|
| Location: | 48 Elsworthy Road, London NW3 3BU | | | | | | Engineer: | JS | | | | |
| Date: | 21/10/2011 | | Job No: | 11/2405 | | Time: | 16:00 | | | | | |

| METEOROLOGICAL AND SITE INFORMATION | | | | | | | | | | | | |
|-------------------------------------|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|---------------------------------|----------|--|--|--|--|
| State of ground: | <input checked="" type="checkbox"/> | Dry | <input type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | | | | | | |
| Wind: | <input checked="" type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input checked="" type="checkbox"/> | Moderate | <input type="checkbox"/> | Strong | | | | |
| Cloud cover: | <input type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input checked="" type="checkbox"/> | Cloudy | <input type="checkbox"/> | Overcast | | | | |
| Precipitation | <input type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> | Heavy | | | | |
| Barometric pressure (mb): | <input type="text" value="1017"/> | | Temperature (°) | | | | <input type="text" value="10"/> | | | | | |

| INSTRUMENTATION USED | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% | | | | | | | | | | | |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|--------------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH03 | | 4.75 | 1017 | 0 | 0 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.1 | 14.9 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.1 | 15.4 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 0.0 | 15.8 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 0.0 | 15.4 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 0.1 | 15.1 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 0.1 | 15.1 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 0.1 | 15.0 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 0.1 | 15.0 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 0.1 | 14.9 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 0.1 | 14.9 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 0.1 | 14.9 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.1 | 15.0 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.1 | 14.9 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.1 | 14.9 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.1 | 15.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.1 | 14.9 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.1 | 14.9 | 0.0 | 0.0 | |

| JOB DETAILS | | | | | | | | | | | | |
|------------------|-----------------------------------|--|----------------|---------|--|--------------|------------------|----|--|--|--|--|
| Location: | 48 Elsworthy Road, London NW3 3BU | | | | | | Engineer: | CB | | | | |
| Date: | 28/10/2011 | | Job No: | 11/2405 | | Time: | 14:10 | | | | | |

| METEOROLOGICAL AND SITE INFORMATION | | | | | | | | | | | | |
|-------------------------------------|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|---------------------------------|----------|--|--|--|--|
| State of ground: | <input type="checkbox"/> | Dry | <input checked="" type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | | | | | | |
| Wind: | <input checked="" type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input type="checkbox"/> | Moderate | <input type="checkbox"/> | Strong | | | | |
| Cloud cover: | <input type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input checked="" type="checkbox"/> | Cloudy | <input type="checkbox"/> | Overcast | | | | |
| Precipitation | <input checked="" type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> | Heavy | | | | |
| Barometric pressure (mb): | <input type="text" value="1017"/> | | Temperature (°) | | | | <input type="text" value="14"/> | | | | | |

| INSTRUMENTATION USED | |
|----------------------|--|
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|--------------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH01 | | 5.05 | 1017 | 0 | 0 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 3.7 | 17.0 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 4.8 | 16.5 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 4.7 | 16.5 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 5.9 | 16.0 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 6.7 | 15.7 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 6.3 | 15.8 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 4.2 | 16.4 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 4.1 | 16.4 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 4.1 | 16.4 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 4.5 | 16.2 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 4.9 | 16.1 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 4.9 | 16.1 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 4.7 | 16.1 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 4.7 | 16.1 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 4.7 | 16.1 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 4.6 | 16.1 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 3.7 | 16.5 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 4.6 | 16.1 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 4.7 | 16.0 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 1.6 | 18.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 4.9 | 15.9 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 4.9 | 15.9 | 0.0 | 0.0 | |

| | | | | | |
|--------------------|-----------------------------------|----------------|---------|------------------|-------|
| JOB DETAILS | | | | | |
| Location: | 48 Elsworthy Road, London NW3 3BU | | | Engineer: | CB |
| Date: | 28/10/2011 | Job No: | 11/2405 | Time: | 14:50 |

| | | | | | | | |
|--|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|--------------------------|
| METEOROLOGICAL AND SITE INFORMATION | | | | | | | |
| State of ground: | <input type="checkbox"/> | Dry | <input checked="" type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | |
| Wind: | <input checked="" type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Cloud cover: | <input type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input checked="" type="checkbox"/> | Cloudy | <input type="checkbox"/> |
| Precipitation | <input checked="" type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Barometric pressure (mb): | <input type="text" value="1017"/> | | Temperature (°) | | <input type="text" value="14"/> | | |

| | |
|-----------------------------|--|
| INSTRUMENTATION USED | |
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|-------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH02 | | 3.89 | 1017 | 0 | 0 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.2 | 17.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.4 | 16.3 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.3 | 17.1 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.6 | 14.4 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 2.1 | 9.9 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 1.9 | 10.0 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 0.3 | 17.4 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 0.9 | 13.2 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 1.6 | 10.5 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 1.5 | 12.6 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 1.3 | 13.2 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 1.4 | 12.5 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 1.5 | 11.6 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 1.6 | 11.8 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 1.5 | 12.1 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 1.5 | 11.9 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.7 | 19.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.7 | 15.5 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.4 | 17.4 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.4 | 19.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 1.6 | 11.7 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 1.6 | 11.8 | 0.0 | 0.0 | |

| JOB DETAILS | | | | | | | | | | | | |
|------------------|-----------------------------------|--|----------------|---------|--|--------------|------------------|----|--|--|--|--|
| Location: | 48 Elsworthy Road, London NW3 3BU | | | | | | Engineer: | CB | | | | |
| Date: | 28/10/2011 | | Job No: | 11/2405 | | Time: | 15:20 | | | | | |

| METEOROLOGICAL AND SITE INFORMATION | | | | | | | | | | | | |
|-------------------------------------|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|---------------------------------|----------|--|--|--|--|
| State of ground: | <input type="checkbox"/> | Dry | <input checked="" type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | | | | | | |
| Wind: | <input checked="" type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input type="checkbox"/> | Moderate | <input type="checkbox"/> | Strong | | | | |
| Cloud cover: | <input type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input checked="" type="checkbox"/> | Cloudy | <input type="checkbox"/> | Overcast | | | | |
| Precipitation | <input checked="" type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> | Heavy | | | | |
| Barometric pressure (mb): | <input type="text" value="1017"/> | | Temperature (°) | | | | <input type="text" value="14"/> | | | | | |

| INSTRUMENTATION USED | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% | | | | | | | | | | | |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|--------------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH03 | | 4.34 | 1017 | 0 | 0 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.0 | 17.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.0 | 13.3 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.0 | 19.4 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.3 | 13.0 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.2 | 13.0 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 0.0 | 13.1 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 0.0 | 12.9 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 0.0 | 12.8 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 0.2 | 13.0 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 0.1 | 13.0 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 0.1 | 12.9 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 0.1 | 12.8 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 0.2 | 12.8 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 0.1 | 12.9 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 0.1 | 12.9 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.0 | 18.2 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.1 | 13.1 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.1 | 13.2 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.0 | 18.3 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.2 | 13.1 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.2 | 13.1 | 0.0 | 0.0 | |

| | | | | | |
|--------------------|-----------------------------------|----------------|---------|------------------|-------|
| JOB DETAILS | | | | | |
| Location: | 48 Elsworthy Road, London NW3 3BU | | | Engineer: | CB |
| Date: | 04/11/2011 | Job No: | 11/2405 | Time: | 13:50 |

| | | | | | | | |
|--|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|-------------------------------------|
| METEOROLOGICAL AND SITE INFORMATION | | | | | | | |
| State of ground: | <input type="checkbox"/> | Dry | <input checked="" type="checkbox"/> | Moist | <input type="checkbox"/> | Wet | |
| Wind: | <input type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input checked="" type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Cloud cover: | <input type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input type="checkbox"/> | Cloudy | <input checked="" type="checkbox"/> |
| Precipitation | <input checked="" type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Barometric pressure (mb): | <input type="text" value="989"/> | | Temperature (°) | | <input type="text" value="16"/> | | |

| | |
|-----------------------------|--|
| INSTRUMENTATION USED | |
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|--------------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH01 | | 4.78 | 989 | 0 | 0.01 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 3.4 | 17.4 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 4.8 | 16.5 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 5.0 | 16.4 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 1.5 | 18.3 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 7.1 | 15.5 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 6.8 | 15.6 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 4.5 | 16.1 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 4.4 | 16.1 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 4.3 | 16.1 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 4.8 | 15.9 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 5.3 | 15.8 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 5.1 | 15.8 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 5.0 | 15.8 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 4.9 | 15.8 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 4.9 | 15.8 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 4.8 | 15.8 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 1.7 | 18.0 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 4.7 | 15.9 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 4.7 | 15.8 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 1.5 | 19.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 5.1 | 15.7 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 5.2 | 15.7 | 0.0 | 0.0 | |

| | | | | | |
|--------------------|-----------------------------------|----------------|---------|------------------|-------|
| JOB DETAILS | | | | | |
| Location: | 48 Elsworthy Road, London NW3 3BU | | | Engineer: | CB |
| Date: | 04/11/2011 | Job No: | 11/2405 | Time: | 14:20 |

| | | | | | | | |
|--|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|--|
| METEOROLOGICAL AND SITE INFORMATION | | | | | | | |
| State of ground: | <input type="checkbox"/> | Dry | <input type="checkbox"/> | Moist | <input checked="" type="checkbox"/> | Wet | |
| Wind: | <input type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input checked="" type="checkbox"/> | Moderate | <input type="checkbox"/> Strong |
| Cloud cover: | <input type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input type="checkbox"/> | Cloudy | <input checked="" type="checkbox"/> Overcast |
| Precipitation | <input checked="" type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> Heavy |
| Barometric pressure (mb): | <input type="text" value="990"/> | | Temperature (°) | | <input type="text" value="16"/> | | |

| | |
|-----------------------------|--|
| INSTRUMENTATION USED | |
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|-------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH02 | | 3.04 | 990 | 0 | 0.01 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.4 | 14.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 1.9 | 7.4 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 1.4 | 10.5 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.3 | 19.8 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 2.7 | 6.9 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 2.4 | 7.2 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 0.2 | 18.5 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 1.5 | 8.4 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 2.1 | 7.3 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 1.6 | 10.5 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 1.5 | 11.1 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 1.7 | 9.8 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 1.9 | 9.0 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 1.8 | 9.4 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 1.8 | 9.8 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 1.7 | 9.7 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.2 | 18.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 1.0 | 14.1 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.6 | 15.5 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.1 | 20.0 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 1.8 | 9.8 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 1.8 | 9.7 | 0.0 | 0.0 | |

| | | | | | |
|--------------------|-----------------------------------|----------------|---------|------------------|-------|
| JOB DETAILS | | | | | |
| Location: | 48 Elsworthy Road, London NW3 3BU | | | Engineer: | CB |
| Date: | 04/11/2011 | Job No: | 11/2405 | Time: | 14:50 |

| | | | | | | | |
|--|-------------------------------------|------|-------------------------------------|--------|-------------------------------------|----------|-------------------------------------|
| METEOROLOGICAL AND SITE INFORMATION | | | | | | | |
| State of ground: | <input type="checkbox"/> | Dry | <input type="checkbox"/> | Moist | <input checked="" type="checkbox"/> | Wet | |
| Wind: | <input type="checkbox"/> | Calm | <input type="checkbox"/> | Light | <input checked="" type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Cloud cover: | <input type="checkbox"/> | None | <input checked="" type="checkbox"/> | Slight | <input type="checkbox"/> | Cloudy | <input checked="" type="checkbox"/> |
| Precipitation | <input checked="" type="checkbox"/> | None | <input type="checkbox"/> | Slight | <input type="checkbox"/> | Moderate | <input type="checkbox"/> |
| Barometric pressure (mb): | <input type="text" value="991"/> | | Temperature (°) | | <input type="text" value="16"/> | | |

| | |
|-----------------------------|--|
| INSTRUMENTATION USED | |
| Gas concentration: | Gas Data LMSxi G3.18, Accuracy: CH ₄ ±0.2% (0 to 5%), ±1.0% (at 30%), ±3.0% (at 100%); CO ₂ ±0.1% (0 to 10%), ±3.0% (at 40%); O ₂ ±0.5% |

| BH (No.) | Time (secs) | Depths to GW (m) | aP (mb) | dP (mb) | Flow rate | CH ₄ (%) | LEL (%) | CO ₂ (%) | O ₂ (%) | H ₂ S(ppm) | CO (ppm) | Comments |
|-------------------|-------------|------------------|---------|---------|-----------|---------------------|---------|---------------------|--------------------|-----------------------|----------|----------|
| BH03 | | 3.99 | 991 | 0 | 0.31 | | | | | | | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.0 | 19.5 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.0 | 13.6 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.0 | 14.6 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.0 | 19.6 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.2 | 11.1 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.1 | 11.7 | 0.0 | 0.0 | |
| Circulation Short | 60 | | | | | 0.0 | 0.0 | 0.0 | 14.9 | 0.0 | 0.0 | |
| | 120 | | | | | 0.0 | 0.0 | 0.0 | 13.1 | 0.0 | 0.0 | |
| | 180 | | | | | 0.0 | 0.0 | 0.0 | 11.9 | 0.0 | 0.0 | |
| | 240 | | | | | 0.0 | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | |
| | 300 | | | | | 0.0 | 0.0 | 0.0 | 13.3 | 0.0 | 0.0 | |
| | 360 | | | | | 0.0 | 0.0 | 0.0 | 12.9 | 0.0 | 0.0 | |
| | 420 | | | | | 0.0 | 0.0 | 0.0 | 12.5 | 0.0 | 0.0 | |
| | 480 | | | | | 0.0 | 0.0 | 0.0 | 13.0 | 0.0 | 0.0 | |
| | 540 | | | | | 0.0 | 0.0 | 0.0 | 13.1 | 0.0 | 0.0 | |
| | 600 | | | | | 0.0 | 0.0 | 0.0 | 12.6 | 0.0 | 0.0 | |
| Short | 5 | | | | | 0.0 | 0.0 | 0.0 | 18.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.0 | 14.2 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.0 | 15.0 | 0.0 | 0.0 | |
| Long | 5 | | | | | 0.0 | 0.0 | 0.1 | 19.1 | 0.0 | 0.0 | |
| | 30 | | | | | 0.0 | 0.0 | 0.1 | 12.3 | 0.0 | 0.0 | |
| | 60 | | | | | 0.0 | 0.0 | 0.1 | 12.5 | 0.0 | 0.0 | |

9. LABORATORY TEST RESULTS

CONCEPT SITE INVESTIGATIONS

| Test Type | No. of Pages |
|--|--------------|
| Moisture Content & Atterberg Limits | 3 |
| Particle Size Distribution & Sedimentation | 2 |
| Sulphate Content & pH | 1 |
| One-dimensional consolidation/swelling | 2 |
| Quick Undrained Triaxial | 1 |

CONCEPT SITE INVESTIGATIONS

| | | | |
|-------------------|----------------------------------|-----------------------|------------|
| Site Name: | 48 Elsworth Road, London NW3 3BU | Job No.: | 11/2405 |
| Client: | Mr & Mrs Swycher | Date Reported: | 24/10/2011 |

Summary Test Report Determination of Moisture Content and Liquid and Plastic Limits

| Borehole No. | Sample Type | Sample No. | Depth m | Description | Natural Moisture Content % | ¹ -Passing 425 µm sieve % | Liquid Limit % | Plastic Limit % | Plasticity Index % | Remarks |
|--------------|-------------|------------|---------|--|----------------------------|--------------------------------------|----------------|-----------------|--------------------|---------|
| BH01 | U | 03 | 1.20 | Brown slightly sandy CLAY with occasional subangular flint gravel | 38 | 98 | 58 | 22 | 36 | |
| BH01 | B | 05 | 2.00 | Brown mottled grey slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to well rounded fine to coarse flint gravel, occasional brick, rare concrete and clinker fragments | 36 | 82 | 70 | 23 | 47 | |
| BH01 | U | 08 | 4.00 | Very closely fissured brown mottled bluish grey mottled yellowish brown slightly sandy CLAY with rare selenite crystals and decayed rootlets | 33 | 100 | 79 | 27 | 52 | |
| BH01 | U | 13 | 7.00 | Very closely fissured brown locally mottled bluish grey slightly sandy CLAY with occasional selenite crystals and rare pockets of orangish brown silt | 30 | 100 | 80 | 26 | 54 | |
| BH01 | U | 18 | 10.00 | Extremely closely fissured brownish grey slightly sandy CLAY with rare pockets of dark and light grey silty fine sand (10x25mm), shell fragments and bioturbation | 30 | 99 | 80 | 27 | 53 | |
| BH01 | U | 23 | 13.00 | Extremely closely fissured grey slightly sandy CLAY with rare pockets of dark grey silt | 28 | 100 | 80 | 25 | 55 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

BS 1377: Part 2: Clause 4.3: 1990 Determination of the liquid limit by the cone penetrometer method.

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index.

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method.



| | | | |
|--|------------|-------------|------------|
| Date - samples received: | 03/10/2011 | Checked by: | K.M. |
| Date - samples tested: | 06/10/2011 | Date: | 24/10/2011 |
| Approved Signatories: J Roberts - JR (Quality Mngr) - K Mazerant - KM (Lab Mngr) - J Fokt - JF (Snr Tech) | | | |

CONCEPT
Unit 8 Warple Mews Warple Way London W3 0RF
Tel: 020 8811 2880 Fax: 020 8811 2881

CONCEPT SITE INVESTIGATIONS

| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| Site Name: | 48 Elsworthy Road, London NW3 3BU | Job No.: | 11/2405 |
| Client: | Mr & Mrs Swycher | Date Reported: | 24/10/2011 |

Summary Test Report Determination of Moisture Content and Liquid and Plastic Limits

| Borehole No. | Sample Type | Sample No. | Depth m | Description | Natural Moisture Content % | 1. Passing 425 µm sieve % | Liquid Limit % | Plastic Limit % | Plasticity Index % | Remarks |
|--------------|-------------|------------|---------|---|----------------------------|---------------------------|----------------|-----------------|--------------------|---------|
| BH02 | D | 03 | 1.50 | Brown silty CLAY with occasional pockets of orangish brown silty sand (2x15mm) and rare selenite crystals | 33 | 100 | 76 | 24 | 52 | |
| BH02 | D | 05 | 3.00 | Brown silty CLAY | 32 | 100 | 77 | 26 | 51 | |
| BH02 | D | 07 | 4.50 | Brown locally mottled bluish grey silty CLAY with rare pockets of orangish brown (2x20mm) and light grey (2x5mm) silty sand, and rare selenite crystals | 32 | 100 | 75 | 26 | 49 | |
| BH02 | D | 09 | 5.50 | Brown locally mottled bluish grey silty CLAY with rare pockets of orangish brown silty sand (2x20mm) and selenite crystals | 30 | 100 | 79 | 25 | 54 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

BS 1377: Part 2: Clause 4.3: 1990 Determination of the liquid limit by the cone penetrometer method.

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index.

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method.



| | | | |
|--|------------|-------------|------------|
| Date - samples received: | 03/10/2011 | Checked by: | K.M. |
| Date - samples tested: | 06/10/2011 | Date: | 24/10/2011 |
| Approved Signatories: J Roberts - JR (Quality Mngr) - K Mazerant - KM (Lab Mngr) - J Fokt - JF (Snr Tech) | | | |

CONCEPT
Unit 8 Warple Mews Warple Way London W3 0RF
Tel: 020 8811 2880 Fax: 020 8811 2881

CONCEPT SITE INVESTIGATIONS

| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| Site Name: | 48 Elsworthy Road, London NW3 3BU | Job No.: | 11/2405 |
| Client: | Mr & Mrs Swycher | Date Reported: | 24/10/2011 |

Summary Test Report Determination of Moisture Content and Liquid and Plastic Limits

| Borehole No. | Sample Type | Sample No. | Depth m | Description | Natural Moisture Content % | 1' Passing 425 µm sieve % | Liquid Limit % | Plastic Limit % | Plasticity Index % | Remarks |
|--------------|-------------|------------|---------|--|----------------------------|---------------------------|----------------|-----------------|--------------------|---------|
| BH03 | B | 03 | 1.50 | Brown locally mottled grey slightly sandy slightly gravelly CLAY. Gravel comprises subangular to rounded fine to coarse flint and occasional brick fragments | 30 | 70 | 66 | 24 | 42 | |
| BH03 | D | 05 | 2.50 | Brown locally mottled grey slightly sandy silty CLAY | 31 | 100 | 67 | 20 | 47 | |
| BH03 | B | 06 | 3.50 | Brown occasionally mottled bluish grey silty CLAY with rare rootlets of live appearance | 32 | 100 | 75 | 26 | 50 | |
| BH03 | D | 08 | 5.00 | Brown occasionally mottled bluish grey silty CLAY with rare pockets of orangish brown silty sand (2x3mm) and selenite crystals | 32 | 100 | 78 | 26 | 52 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

BS 1377: Part 2: Clause 4.3: 1990 Determination of the liquid limit by the cone penetrometer method.

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index.

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method.



| | | |
|--|------------------|--|
| Date - samples received: 03/10/2011 | Checked by: K.M. | CONCEPT Unit 8 Warple Mews Warple Way London W3 0RF Tel: 020 8811 2880 Fax: 020 8811 2881 |
| Date - samples tested: 06/10/2011 | Date: 24/10/2011 | |
| Approved Signatories: J Roberts - JR (Quality Mngr) - K Mazerant - KM (Lab Mngr) - J Fokt - JF (Snr Tech) | | |



4503

**CONCEPT SITE INVESTIGATIONS**

Unit 8 Warple Mews Warple Way London W3 0RF

Tel: 020 8811 2880 Fax: 020 8811 2881

Email: lab@conceptconsultants.co.uk

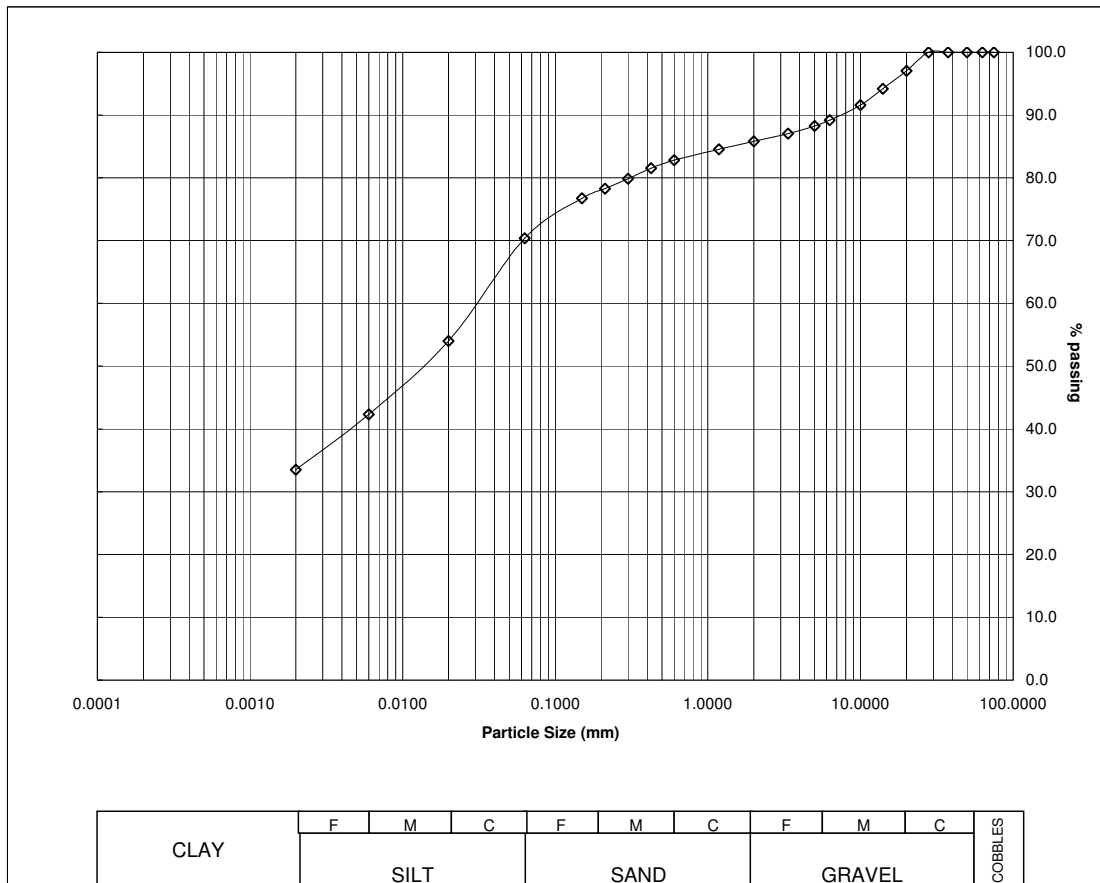
PARTICLE SIZE DISTRIBUTION**TEST REPORT**

| | | | | | |
|---------------------|----------------------------------|------------------------|------|-----------------------|------------------------|
| Site Name: | 48 Elsworth Road, London NW3 3BU | | | Job Number: | 11/2405 |
| Client: | Mr & Mrs Swycher | | | Date Reported: | 24/10/2011 |
| Borehole No: | BH01 | Sample Type/No. | B 05 | Depth: | 2.00 m |
| | | | | Method/type: | Wet Sieving Pipette |

Soil Description:

Brown mottled grey slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to well rounded fine to coarse flint gravel, occasional brick, rare concrete and clinker fragments

| BS Test Sieves | |
|----------------|-----------|
| Size (mm) | % Passing |
| 75.000 | 100 |
| 63.000 | 100 |
| 50.000 | 100 |
| 37.500 | 100 |
| 28.000 | 100 |
| 20.000 | 97 |
| 14.000 | 94 |
| 10.000 | 92 |
| 6.300 | 89 |
| 5.000 | 88 |
| 3.350 | 87 |
| 2.000 | 86 |
| 1.180 | 85 |
| 0.600 | 83 |
| 0.425 | 82 |
| 0.300 | 80 |
| 0.212 | 78 |
| 0.150 | 77 |
| 0.063 | 70 |



| Particle Proportions % | |
|------------------------|------|
| Cobbles | |
| Gravel | 14.2 |
| Sand | 15.4 |
| Silt and Clay | 70.4 |

BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.

BS 1377: Part 2: Clause 9.3: 1990 Determination of particle size distribution - dry sieving method.

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

| | | |
|--------------------------|---|------------------|
| Date - samples received: | 03/10/2011 | Remarks: |
| Date - samples tested: | 19/10/2011 | |
| Approved Signatories: | J Roberts - JR (Quality Mngr) - K Mazerant - KM (Lab Mngr) - J Fokt - JF (Snr Tech) | |
| Checked by: | K.M. | Date: 24/10/2011 |



4503

**CONCEPT SITE INVESTIGATIONS**

Unit 8 Warple Mews Warple Way London W3 0RF

Tel: 020 8811 2880 Fax: 020 8811 2881

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION**TEST REPORT**

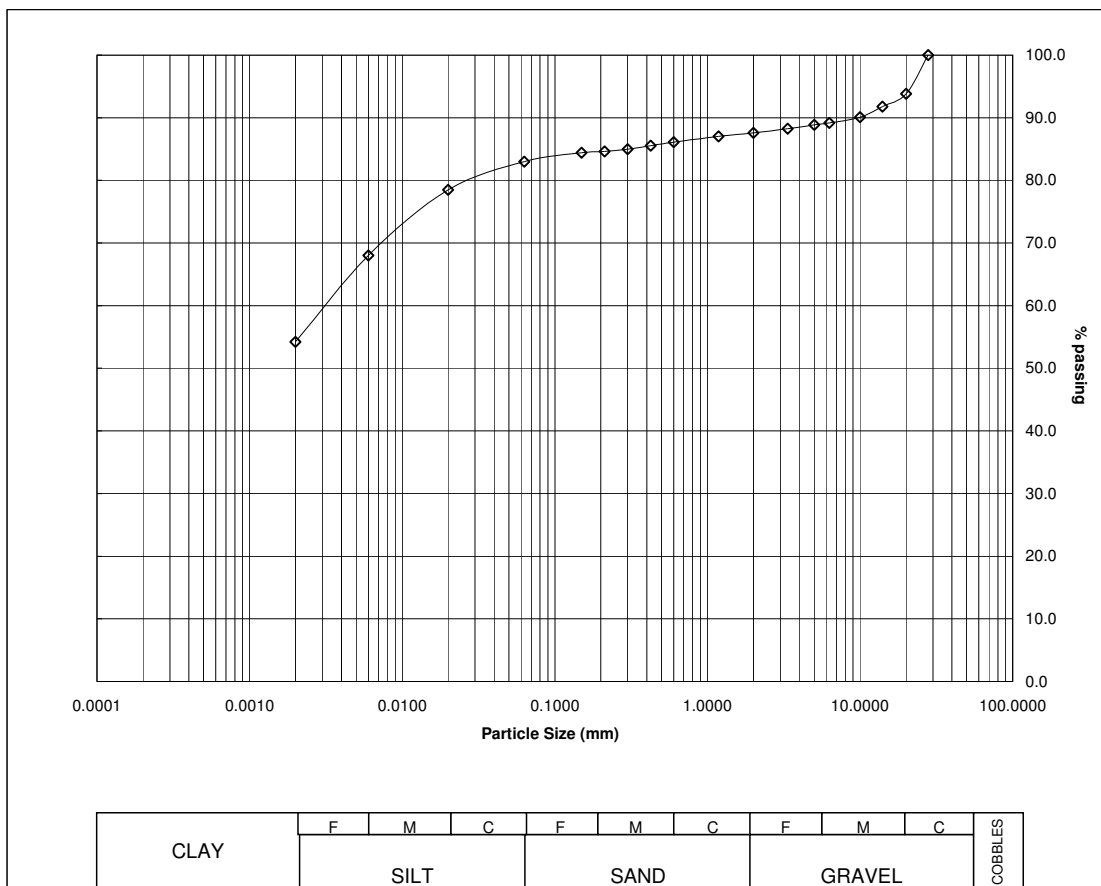
| | | | | | |
|---|-----------------------------|----------------------|--|----------------------------------|------------------------|
| Site Name: 48 Elsworthy Road, London NW3 3BU | | | | Job Number: 11/2405 | |
| Client: Mr & Mrs Swycher | | | | Date Reported: 24/10/2011 | |
| Borehole No: BH02 | Sample Type/No. B 02 | Depth: 1.00 m | | Method/type: | Wet Sieving Pipette |

Soil Description:

Brown locally mottled greyish green slightly sandy slightly gravelly silty CLAY with occasional pockets of orangish brown silty sand (5x35mm) and rootlets of live appearance. Gravel comprises subangular to well rounded fine to coarse flint and occasional brick fragments

| BS Test Sieves | |
|----------------|-----------|
| Size (mm) | % Passing |
| 75.000 | 100 |
| 63.000 | 100 |
| 50.000 | 100 |
| 37.500 | 100 |
| 28.000 | 100 |
| 20.000 | 94 |
| 14.000 | 92 |
| 10.000 | 90 |
| 6.300 | 89 |
| 5.000 | 89 |
| 3.350 | 88 |
| 2.000 | 88 |
| 1.180 | 87 |
| 0.600 | 86 |
| 0.425 | 86 |
| 0.300 | 85 |
| 0.212 | 85 |
| 0.150 | 84 |
| 0.063 | 83 |

| Particle Proportions % | |
|------------------------|------|
| Cobbles | |
| Gravel | 12.4 |
| Sand | 4.6 |
| Silt and Clay | 83.0 |



BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.

BS 1377: Part 2: Clause 9.3: 1990 Determination of particle size distribution - dry sieving method.

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

| | | |
|--|------------|------------------|
| Date - samples received: | 03/10/2011 | Remarks: |
| Date - samples tested: | 19/10/2011 | |
| Approved Signatories: J Roberts - JR (Quality Mngr) - K Mazerant - KM (Lab Mngr) - J Fokt - JF (Snr Tech) | | |
| Checked by: | K.M. | Date: 24/10/2011 |

CONCEPT SITE INVESTIGATIONS

Site Name: 48 Elsworthy Road, London NW3 3BU

| | |
|----------|---------|
| Job No.: | 11/2405 |
|----------|---------|

Carried out for: Mr & Mrs Swycher

| | |
|-----------------------|------------|
| Date Reported: | 24/10/2011 |
|-----------------------|------------|

Summary Test Report Sulphate Content of Soil

[illegible]

BS 1377: Part 3: Clause 5.5 : 1990 (Issue 2 April 1996)

Determination of the sulphate content of soil & ground water: gravimetric method.



Date - samples received: 03/10/2011

Checked by: K.M.


Date - samples tested: 06/10/2011

Date: 24/10/2011

Approved Signatories: J Roberts (Quality Mngr) - K Mazerant (Lab Mngr) - J Fokt (Snr Tech)

Unit 8 Warple Mews Warple Way London W3 0RF
Tel: 020 8811 2880 Fax: 020 8811 2881

Unit 8 Warple Mews Warple Way London W3 0RF
Tel: 020 8811 2880 Fax: 020 8811 2881

| | | | | |
|--|-----------------------------------|---------------------------|---------------|---|
| Client name & address: | | Samples Received | 10/10/2011 | K4 SOILS  |
| Mr & Mrs Swycher | | Project Started | 10/10/2011 | |
| Project Name: 48 Elsworthy Road, London NW3 3BU | | Testing Started | 11/10/2011 | |
| Project No: | Our Job / report no: 11737 | Date Reported: | 25/10/2011 | |
| Sample description: | | Sample no/ type: U | BH no: | BH01 |
| Grey CLAY | | Depth (m): | | 10.00 |

Test details

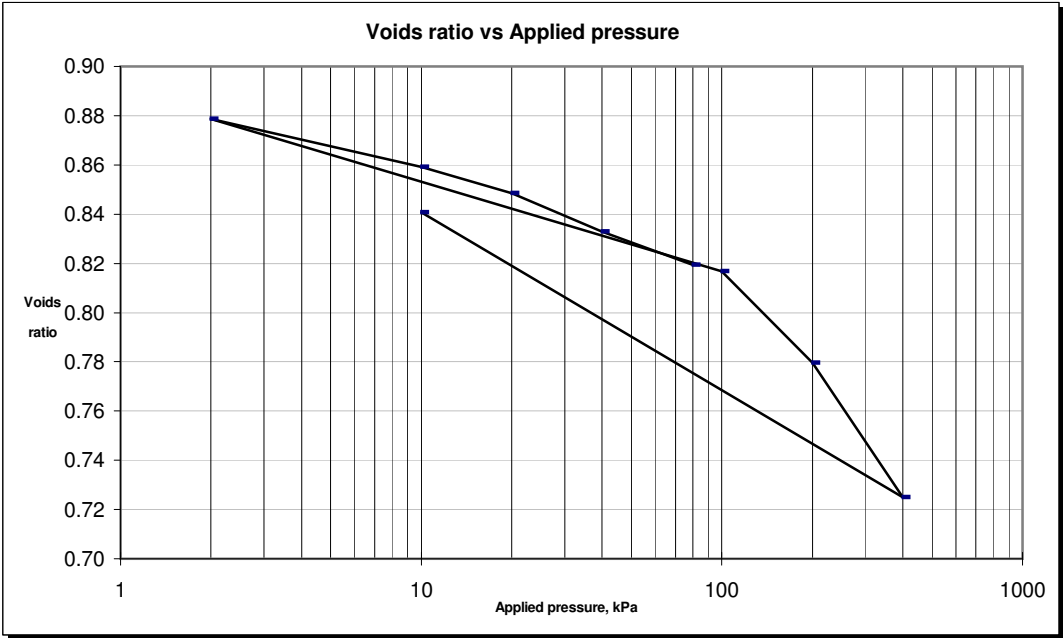
Depth within original sample m : 10.10 Orientation within original sample : Vertical

Specimen details

| | | Initial | Final |
|----------------------|---------|---------|-------|
| Height | mm : | 16 | 16.2 |
| Diameter | mm : | 75 | - |
| Bulk density | Mg/m3 : | 1.93 | 1.97 |
| Moisture content | % : | 30 | 34 |
| Dry density | Mg/m3 : | 1.48 | 1.47 |
| Void Ratio | : | 0.82 | 0.84 |
| Degree of saturation | % : | 98.6 | - |
| Particle density | Mg/m3 : | 2.70 | - |
| Swelling pressure | kPa : | 80 | - |


Consolidation Stage

| Stage number | Applied Pressure kPa | Void Ratio | Coefficient of Consolidation m2/year | Coefficient of Compressibility m2/MN | Stage number | Applied Pressure kPa | Void Ratio | Coefficient of Consolidation m2/year | Coefficient of Compressibility m2/MN |
|--------------|-------------------------|------------|---|---|--------------|-------------------------|------------|---|---|
| 1 | 80 | 0.8195 | | | 11 | | | | |
| 2 | 40 | 0.8329 | 0.33 | 0.184 | 12 | | | | |
| 3 | 20 | 0.8484 | 0.59 | 0.422 | 13 | | | | |
| 4 | 10 | 0.8593 | 0.33 | 0.591 | 14 | | | | |
| 5 | 2 | 0.8786 | 0.22 | 1.300 | 15 | | | | |
| 6 | 100 | 0.8168 | 0.60 | 0.336 | 16 | | | | |
| 7 | 200 | 0.7795 | 0.57 | 0.205 | 17 | | | | |
| 8 | 400 | 0.7251 | 0.66 | 0.153 | 18 | | | | |
| 9 | 10 | 0.8406 | 0.21 | 0.172 | 19 | | | | |
| 10 | | | | | 20 | | | | |



| | |
|--|--|
| One-Dimensional Consolidation Test BS 1377 : Part 5 : Clause 3 & 4 : 1990 Determination of the one-dimensional consolidation properties | |
|--|--|

| | |
|--------------------|------------|
| Approved by | |
| Initials : | kp |
| Date : | 25/10/2011 |

| | | | | | |
|-----------------------------------|-----------------------------------|-------------------------|------------|---|-------|
| Client name & address: | | Samples Received | 10/10/2011 | K4 SOILS  | |
| Mr & Mrs Swycher | | Project Started | 10/10/2011 | | |
| Project Name: | 48 Elsworthy Road, London NW3 3BU | Testing Started | 13/10/2011 | | |
| Project No: | Our Job / report no: | Date Reported: | 25/10/2011 | | |
| Sample description: | | Sample no/ type: | U | BH no: | BH01 |
| Grey CLAY | | | | Depth (m): | 13.00 |

Test details

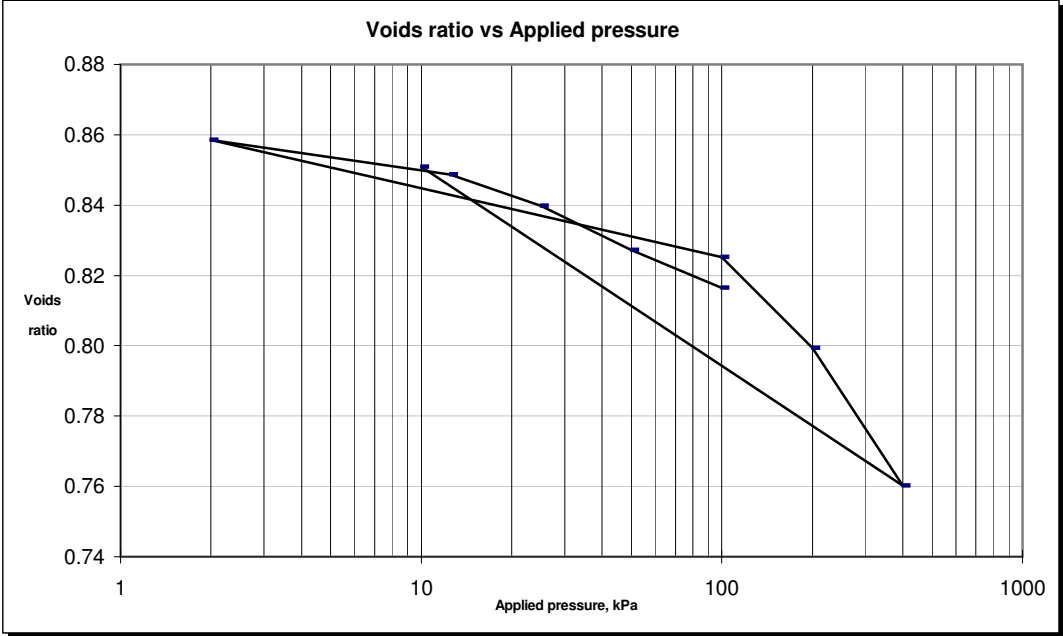
Depth within original sample m : 13.10 Orientation within original sample : Vertical

Specimen details

| | | Initial | Final |
|----------------------|---------|---------|-------|
| Height | mm : | 17 | 17 |
| Diameter | mm : | 75 | - |
| Bulk density | Mg/m3 : | 1.94 | 1.99 |
| Moisture content | % : | 29 | 32 |
| Dry density | Mg/m3 : | 1.51 | 1.51 |
| Void Ratio | : | 0.82 | 0.82 |
| Degree of saturation | % : | 96.7 | - |
| Particle density | Mg/m3 : | 2.74 | - |
| Swelling pressure | kPa : | 100 | - |

Consolidation Stage



| Stage number | Applied Pressure kPa | Void Ratio | Coefficient of Consolidation m2/year | Coefficient of Compressibility m2/MN | Stage number | Applied Pressure kPa | Void Ratio | Coefficient of Consolidation m2/year | Coefficient of Compressibility m2/MN |
|--------------|-------------------------|------------|---|---|--------------|-------------------------|------------|---|---|
| 1 | 100 | 0.8165 | | | 11 | | | | |
| 2 | 50 | 0.8272 | 0.30 | 0.118 | 12 | | | | |
| 3 | 25 | 0.8398 | 0.29 | 0.276 | 13 | | | | |
| 4 | 13 | 0.8488 | 0.15 | 0.390 | 14 | | | | |
| 5 | 2 | 0.8586 | 0.23 | 0.506 | 15 | | | | |
| 6 | 100 | 0.8253 | 0.67 | 0.183 | 16 | | | | |
| 7 | 200 | 0.7994 | 0.37 | 0.142 | 17 | | | | |
| 8 | 400 | 0.7603 | 0.67 | 0.109 | 18 | | | | |
| 9 | 10 | 0.8509 | 0.28 | 0.132 | 19 | | | | |
| 10 | | | | | 20 | | | | |



| | |
|---|--|
| One-Dimensional Consolidation Test | |
| BS 1377 : Part 5 : Clause 3 & 4 : 1990 | |
| Determination of the one-dimensional consolidation properties | |

| | |
|--------------------|------------|
| Approved by | |
| Initials : | kp |
| Date : | 25/10/2011 |

| CONCEPT SITE INVESTIGATIONS | | | | Summary Test Report - Undrained Triaxial Compression (Single-Stage) BS 1377 : Part 7: 1990 Clause 8 | | | | | | Date Reported: 24/10/2011 | | Job No.: 11/2405 | |
|--|-------------|-----------|---------------|---|---------------------|---------------------|--------------------|-------------------|-------|---------------------------|--------------------|---|--|
| Site Location: 48 Elsworthy Road, London NW3 3BU | | | | Client: Mr & Mrs Swycher | | | | | | | | | |
| BH No. | Sample Type | Sample No | Depth top (m) | Description | Cell pressure kN/m2 | Strain at failure % | Bulk Density Mg/m3 | Dry Density Mg/m3 | NMC % | Max Dev. Stress kPa | Shear Strength kPa | Mode of failure/Comments | |
| BH01 | U | 03 | 1.20 | Dark grey slightly sandy CLAY with occasional fine to coarse subrounded flint gravel, gravel sized brick and concrete fragments and rare pockets of mortar. Becoming brown slightly sandy CLAY with occasional subangular flint gravel at 1.42m. Becoming dark grey slightly sandy silty CLAY with semi decayed rootlets and rare sand sized brick fragments at 1.50m | 50 | 17.6 | 1.779 | 1.288 | 38 | 73 | 37 | Plastic Sample tested at 1.35m | |
| BH01 | U | 08 | 4.00 | Very closely fissured brown mottled bluish grey mottled yellowish brown slightly sandy CLAY with rare selenite crystals and decayed rootlets | 150 | 12.2 | 1.927 | 1.445 | 33 | 130 | 65 | Brittle with slight plastic deformation | |
| BH01 | U | 13 | 7.00 | Very closely fissured brown locally mottled bluish grey slightly sandy CLAY with occasional selenite crystals and rare pockets of orangish brown silt; becoming CLAYSTONE at 7.40m | 235 | 8.4 | 1.963 | 1.510 | 30 | 162 | 81 | Brittle (CLAYSTONE - not in test sample) | |
| BH01 | U | 18 | 10.00 | Extremely closely fissured brownish grey slightly sandy CLAY with rare pockets of dark and light grey silty fine sand (10x25mm), shell fragments and bioturbation | 330 | 3.3 | 1.972 | 1.522 | 30 | 188 | 94 | Brittle | |
| BH01 | U | 23 | 13.00 | Extremely closely fissured grey slightly sandy CLAY with rare pockets of dark grey silt | 415 | 4.9 | 1.998 | 1.558 | 28 | 239 | 119 | Brittle | |
| | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|---|--|
| Date - samples received: 03/10/2011 | | | | CONCEPT Unit 8 Warple Mews Warple Way London W3 0RF Tel: 020 8811 2880 Fax: 020 8811 2881 Email: Lab@conceptconsultants.co.uk | | | | | |   | |
| Date - samples tested: 06/10/2011 | | | | | | | | | | | |
| Approved Signatories: J Roberts (Quality Mngr) - K Mazerant (Lab Mngr) - J Fokt - JF (Snr Tech) | | | | | | | | | | | |
| Checked by: K.M. Date: 24/10/2011 | | | | | | | | | | | |

Concept Engineering Consultants Ltd
Unit 8
Warple Mews
Warple Way
London
W3 0RF

Intec
Parc Menai, Bangor,
Gwynedd, North Wales
LL57 4FP
Tel: 01248 672652
Fax: 01248 672601

26/09/2011

Your ref: 11/2405
Job No: Root260911113737

Re: Root Identification
Sample Origin: 48 Elsworthy Road, London, NW3 3BU

The sample of roots taken from the above property and received by us on 26 September 2011, has been examined and identification appears to be as follows:

| Reference | Depth | Species Identified | | Root Diameter | Starch |
|-----------|-------|-----------------------|---|---------------|----------|
| TP01 | 1.1m | <i>Acer</i> spp. | 1 | 1 mm | Moderate |
| TP01 | 1.1m | <i>Clematis</i> spp. | | 5 mm | Moderate |
| TP02 | 1.3m | <i>Acer</i> spp. | 2 | 1.5 mm | Moderate |
| TP03 | 0.8m | <i>Acer</i> spp. | 3 | <1 mm | Low |
| TP04 | 1.5m | <i>Hydrangea</i> spp. | | <1 mm | Abundant |
| TP05 | 0.5m | <i>Hydrangea</i> spp. | 4 | <1 mm | Moderate |

Comments:

- 1 - Plus 2 others also identified as *Acer* spp.
- 2 - Plus 1 other also identified as *Acer* spp.
- 3 - Two the same; both rather juvenile.
- 4 - Plus 3 other roots too juvenile for identification.

Acer spp. are maples, including sycamore, Norway maple, and Japanese maples.

Clematis spp. are common flowering, garden climbers.

Hydrangea spp. are common garden shrubs.

Signed MDM

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 3 years after the date of this report.



10. CHEMICAL TEST RESULTS

TEST REPORT

SOIL SAMPLE ANALYSIS



Report No. EFS/118241 (Ver. 1)

Concept Consultants
Unit 8
Warple Mews
Warple Way
Acton
London
W3 0RF

Site: Elsworthy Road

The 3 samples described in this report were logged for analysis by Scientifics on 28-Sep-2011. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 11-Oct-2011

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited
Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 3)
Table of PAH (MS-SIM) (80) Results (Pages 4 to 5)
Table of GRO Results (Page 6)
Table of TPH (Si) banding (UK-CWG) (Page 7)
GC-FID Chromatograms (Pages 8 to 11)
Table of WAC Analysis Results (Page 12)
Table of Asbestos Screening Results (Page 13)
Analytical and Deviating Sample Overview (Pages 14 to 15)
Table of Method Descriptions (Pages 16 to 17)
Table of Report Notes (Page 18)

On behalf of
Scientifics :
Andrew Timms

A handwritten signature in black ink, appearing to read 'Andrew Timms', written over the printed name.

Operations Manager

Date of Issue: 11-Oct-2011

Tests marked '^' have been subcontracted to another laboratory.

Scientifics accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

[illegible]

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

| | | | |
|-----------------------------------|-------------------------------------|------------------------|------------|
| Customer and Site Details: | Concept Consultants: Elsworthy Road | | |
| Sample Details: | TP03 0.60 | Job Number: | S11_8241 |
| LIMS ID Number: | CL1137664 | Date Booked in: | 28-Sep-11 |
| QC Batch Number: | 111873 | Date Extracted: | 03-Oct-11 |
| Quantitation File: | Initial Calibration | Date Analysed: | 04-Oct-11 |
| Directory: | 311PAH.MS14\ | Matrix: | Soil |
| Dilution: | 1.0 | Ext Method: | Ultrasonic |

UKAS accredited?: Yes

| Target Compounds | CAS # | R.T. (min) | Concentration mg/kg | % Fit |
|------------------------|-----------|---------------|------------------------|-------|
| Naphthalene | 91-20-3 | - | < 0.08 | - |
| Acenaphthylene | 208-96-8 | - | < 0.08 | - |
| Acenaphthene | 83-32-9 | - | < 0.08 | - |
| Fluorene | 86-73-7 | - | < 0.08 | - |
| Phenanthrene | 85-01-8 | 6.04 | 0.10 | 99 |
| Anthracene | 120-12-7* | - | < 0.08 | - |
| Fluoranthene | 206-44-0 | - | < 0.08 | - |
| Pyrene | 129-00-0 | 7.73 | 0.08 | 94 |
| Benzo[a]anthracene | 56-55-3 | - | < 0.08 | - |
| Chrysene | 218-01-9 | - | < 0.08 | - |
| Benzo[b]fluoranthene | 205-99-2 | - | < 0.08 | - |
| Benzo[k]fluoranthene | 207-08-9 | - | < 0.08 | - |
| Benzo[a]pyrene | 50-32-8 | - | < 0.08 | - |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | - | < 0.08 | - |
| Dibenzo[a,h]anthracene | 53-70-3 | - | < 0.08 | - |
| Benzo[g,h,i]perylene | 191-24-2 | - | < 0.08 | - |
| Total (USEPA16) PAHs | - | - | < 1.30 | - |

* Denotes compound is not UKAS accredited

"M" denotes that % fit has been manually interpreted

| Internal Standards | % Area |
|------------------------|--------|
| 1,4-Dichlorobenzene-d4 | NA |
| Naphthalene-d8 | 104 |
| Acenaphthene-d10 | 104 |
| Phenanthrene-d10 | 112 |
| Chrysene-d12 | 122 |
| Perylene-d12 | 119 |

| Surrogates | % Rec |
|------------------|-------|
| Nitrobenzene-d5 | NA |
| 2-Fluorobiphenyl | 87 |
| Terphenyl-d14 | 96 |

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Polycyclic Aromatic Hydrocarbons GC/MS (SIM)

| | | | |
|-----------------------------------|-------------------------------------|------------------------|------------|
| Customer and Site Details: | Concept Consultants: Elsworthy Road | | |
| Sample Details: | TP05 0.30 | Job Number: | S11_8241 |
| LIMS ID Number: | CL1137665 | Date Booked in: | 28-Sep-11 |
| QC Batch Number: | 111873 | Date Extracted: | 03-Oct-11 |
| Quantitation File: | Initial Calibration | Date Analysed: | 04-Oct-11 |
| Directory: | 311PAH.MS14\ | Matrix: | Soil |
| Dilution: | 1.0 | Ext Method: | Ultrasonic |

UKAS accredited?: Yes

| Target Compounds | CAS # | R.T. (min) | Concentration mg/kg | % Fit |
|------------------------|-----------|---------------|------------------------|-------|
| Naphthalene | 91-20-3 | - | < 0.08 | - |
| Acenaphthylene | 208-96-8 | - | < 0.08 | - |
| Acenaphthene | 83-32-9 | - | < 0.08 | - |
| Fluorene | 86-73-7 | - | < 0.08 | - |
| Phenanthrene | 85-01-8 | 6.04 | 0.08 | 98 |
| Anthracene | 120-12-7* | - | < 0.08 | - |
| Fluoranthene | 206-44-0 | 7.43 | 0.08 | 92 |
| Pyrene | 129-00-0 | 7.73 | 0.08 | 93 |
| Benzo[a]anthracene | 56-55-3 | - | < 0.08 | - |
| Chrysene | 218-01-9 | - | < 0.08 | - |
| Benzo[b]fluoranthene | 205-99-2 | 10.98 | 0.09 | 96 |
| Benzo[k]fluoranthene | 207-08-9 | - | < 0.08 | - |
| Benzo[a]pyrene | 50-32-8 | - | < 0.08 | - |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | - | < 0.08 | - |
| Dibenzo[a,h]anthracene | 53-70-3 | - | < 0.08 | - |
| Benzo[g,h,i]perylene | 191-24-2 | - | < 0.08 | - |
| Total (USEPA16) PAHs | - | - | < 1.29 | - |

* Denotes compound is not UKAS accredited

"M" denotes that % fit has been manually interpreted

| Internal Standards | % Area |
|------------------------|--------|
| 1,4-Dichlorobenzene-d4 | NA |
| Naphthalene-d8 | 100 |
| Acenaphthene-d10 | 99 |
| Phenanthrene-d10 | 104 |
| Chrysene-d12 | 112 |
| Perylene-d12 | 111 |

| Surrogates | % Rec |
|------------------|-------|
| Nitrobenzene-d5 | NA |
| 2-Fluorobiphenyl | 95 |
| Terphenyl-d14 | 103 |

Concentrations are reported on a wet weight basis.

The Total PAH result is the sum of non-rounded individual PAH results and therefore may differ to the sum of the rounded individual PAH results printed above. By convention, where any one or more result is a "less than", the total is expressed as a "less than" and includes the "less than" concentration within the total.

Gasoline Range Organics (BTX and Aromatic/Aliphatic Carbon Ranges)

Customer and Site Details: Concept Consultants : Elsworthy Road
Job Number: S11_8241
Directory: D:\TES\DATA\Y2011\1003HSA_GC12\100311A 2011-10-03 12-43-26\142B2301.D
Method: HEADSPACE GCFID

Matrix: Soil
Date Booked in: 28-Sep-11
Date extracted: 03-Oct-11
Date Analysed: 03-Oct-11, 19:49:11
Units: mg/kg

* Sample data with an asterisk are not UKAS accredited.

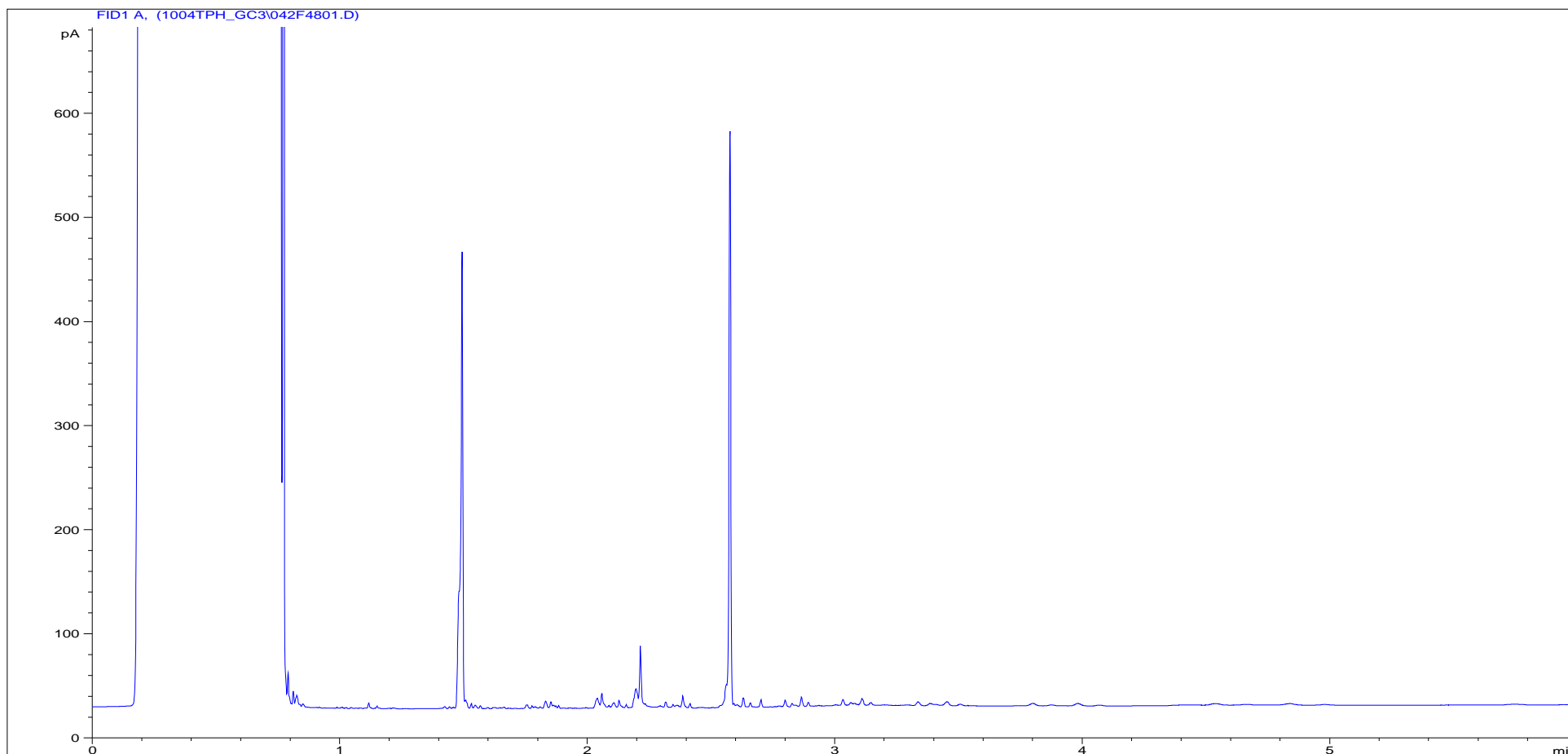
[illegible]

ALIPHATIC / AROMATIC FRACTION BY GC/FID

04-Oct-11

[illegible]

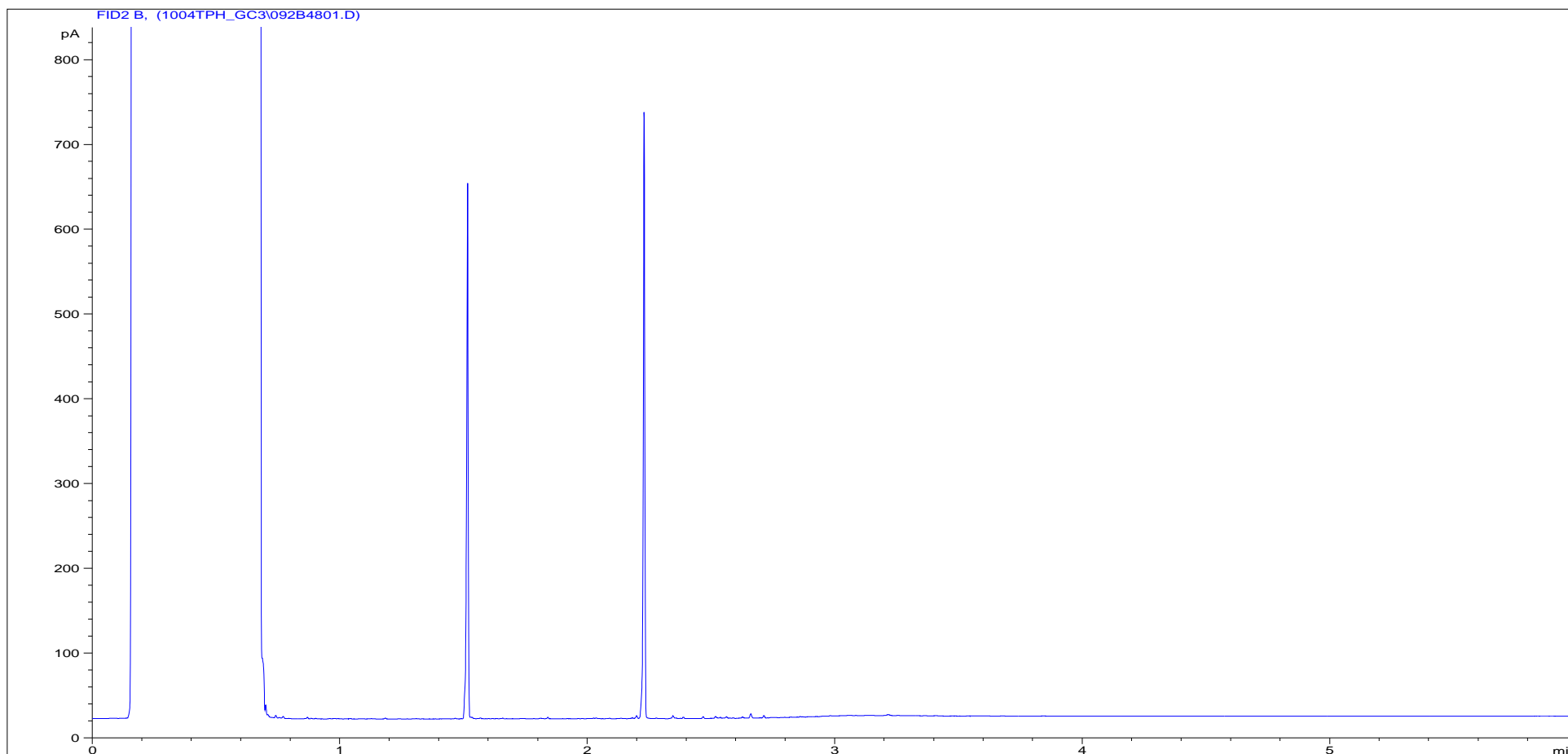
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



| | | | |
|-------------------------------|--|---------------------------|---------------------|
| Sample ID: | CL1137664ALI | Job Number: | S11_8241 |
| Multiplier: | 15.2 | Client: | Concept Consultants |
| Dilution: | 1 | Site: | Elsworthy Road |
| Acquisition Method: | 5UL_RUNF.M | Client Sample Ref: | TP03 0.60 |
| Acquisition Date/Time: | 04-Oct-11 | | |
| Datafile: | D:\TES\DATA\Y2011\OCT2011\1004TPH_GC3\042F4801.D | | |

Where individual results are flagged see report notes for status.

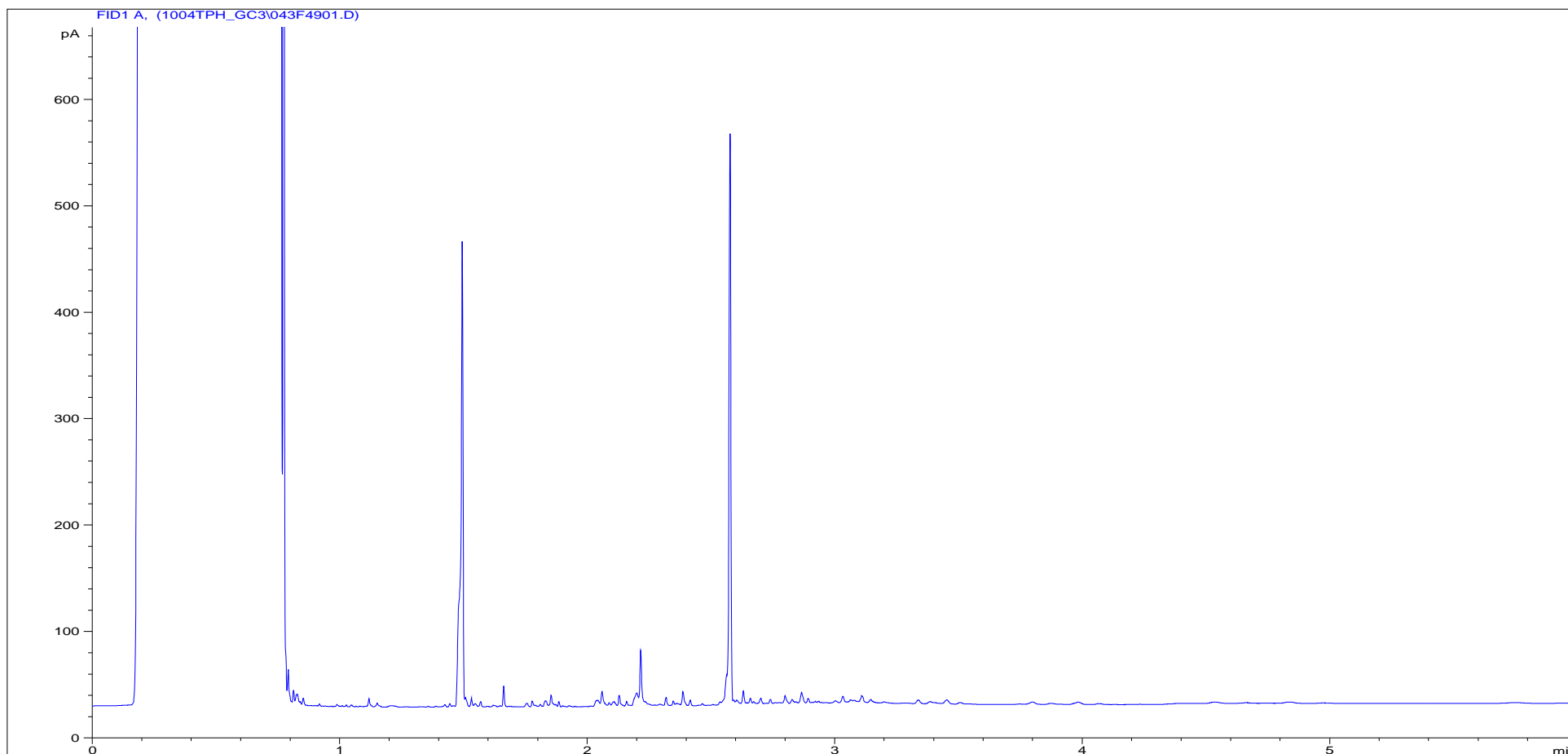
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



| | | | |
|-------------------------------|--|---------------------------|---------------------|
| Sample ID: | CL1137664ARO | Job Number: | S11_8241 |
| Multiplier: | 11.78 | Client: | Concept Consultants |
| Dilution: | 1 | Site: | Elsworthy Road |
| Acquisition Method: | 5UL_RUNF.M | Client Sample Ref: | TP03 0.60 |
| Acquisition Date/Time: | 04-Oct-11 | | |
| Datafile: | D:\TES\DATA\Y2011\OCT2011\1004TPH_GC3\092B4801.D | | |

Where individual results are flagged see report notes for status.

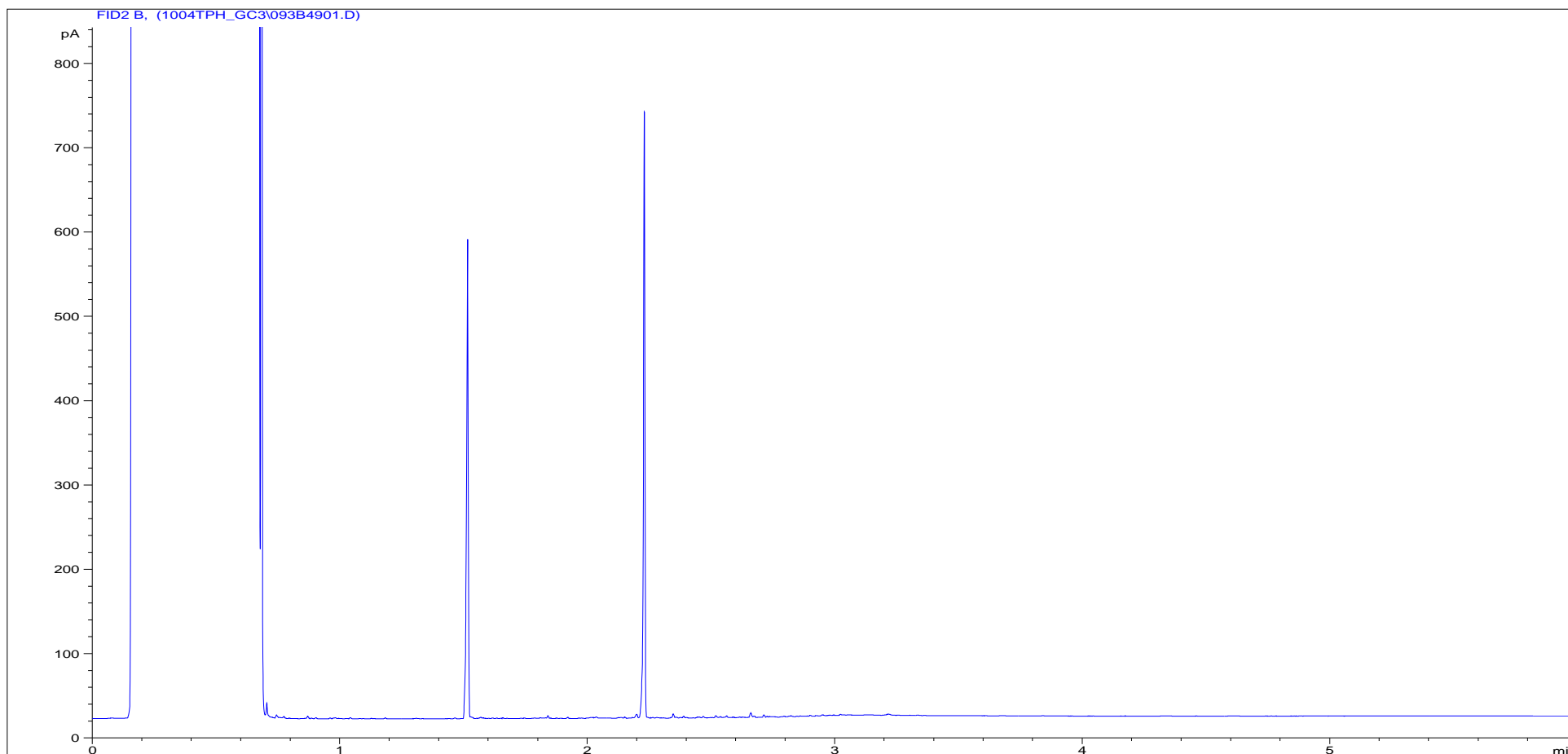
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



| | | | |
|-------------------------------|--|---------------------------|---------------------|
| Sample ID: | CL1137665ALI | Job Number: | S11_8241 |
| Multiplier: | 17.22 | Client: | Concept Consultants |
| Dilution: | 1 | Site: | Elsworthy Road |
| Acquisition Method: | 5UL_RUNF.M | Client Sample Ref: | TP05 0.30 |
| Acquisition Date/Time: | 04-Oct-11 | | |
| Datafile: | D:\TES\DATA\Y2011\OCT2011\1004TPH_GC3\043F4901.D | | |

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



| | | | |
|-------------------------------|--|---------------------------|---------------------|
| Sample ID: | CL1137665ARO | Job Number: | S11_8241 |
| Multiplier: | 12.6 | Client: | Concept Consultants |
| Dilution: | 1 | Site: | Elsworthy Road |
| Acquisition Method: | 5UL_RUNF.M | Client Sample Ref: | TP05 0.30 |
| Acquisition Date/Time: | 04-Oct-11 | | |
| Datafile: | D:\TES\DATA\Y2011\OCT2011\1004TPH_GC3\093B4901.D | | |

Where individual results are flagged see report notes for status.

WASTE ACCEPTANCE CRITERIA TESTING

BSEN 12457/3

| Client | Concept Consultants | | | | Leaching Data | |
|--------------------|---------------------|-----------|------------|------------|--|-------|
| | | | | | Weight of sample (kg) | 0.225 |
| Contact | Dr J Roberts | | | | Moisture content @ 105°C (%) | 20.4 |
| | | | | | Equivalent Weight based on drying at 105°C (kg) | 0.180 |
| Site | Elsworthy Road | | | | Volume of water required to carry out 2:1 stage (litres) | 0.315 |
| | | | | | Weight of Sieved Soil to carry out 2:1 stage (kg) | 0.281 |
| Sample Description | | Report No | Sample No | Issue Date | Weight of Deionised water to carry out 2:1 stage (kg) | 0.394 |
| TP05 1.50 | | s11_8241 | CL/1137666 | 11-Oct-11 | Volume to undertake analysis (2:1 Stage) (litres) | 0.300 |
| | | | | | Weight of Deionised water to carry out 8:1 stage (kg) | 1.380 |

| Accreditation | Method Code | Solid Waste Analysis (Dry Basis) | Concentration in Solid (Dry Weight Basis) | Landfill Waste Acceptance Criteria Limit Values | | |
|---------------|-------------|---|---|---|---|--------------------------|
| | | | | Inert Waste Landfill | Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill | Hazardous Waste Landfill |
| | WSLM59 | Total Organic Carbon (% M/M) | | 3 | 5 | 6 |
| | LOI450 | Loss on Ignition (%) | | | | 10 |
| | BTEXHSA | Sum of BTEX (mg/kg) | | 6 | | |
| | PCBUSECD | Sum of 7 Congener PCB's (mg/kg) | | 1 | | |
| | TPHFIDUS | Mineral Oil (mg/kg) | | 500 | | |
| | PAHMSUS | PAH Sum of 17 (mg/kg) | | 100 | | |
| | PHSOIL | pH (pH units) | | | >6 | |
| | ANC | Acid Neutralisation Capacity (mol/kg) @pH 7 | | | To be evaluated | To be evaluated |

| Accreditation | Method Code | Leachate Analysis | 2:1 Leachate | 8:1 Leachate | Calculated amount leached @ 2:1 | Calculated cumulative amount leached @ 10:1 | Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1 mg/kg (dry weight) | | |
|---------------|-------------|------------------------------------|---------------------------|--------------|-------------------------------------|---|--|-------|--------|
| | | | mg/l except ⁰⁰ | | mg/kg (dry weight) | | | | |
| U | WSLM3 | pH (pH units) ⁰⁰ | 8.3 | 7.9 | Calculated data not UKAS Accredited | | | | |
| U | WSLM2 | Conductivity (µs/cm) ⁰⁰ | 560 | 260 | | | | | |
| U | ICPMSW | Arsenic | 0.003 | 0.004 | 0.006 | 0.04 | 0.5 | 2 | 25 |
| N | ICPWATVAR | Barium | 0.35 | 0.2 | 0.7 | 2.2 | 20 | 100 | 300 |
| U | ICPMSW | Cadmium | <0.0001 | <0.0001 | <0.0002 | <0.001 | 0.04 | 1 | 5 |
| U | ICPMSW | Chromium | 0.002 | 0.002 | 0.004 | 0.02 | 0.5 | 10 | 70 |
| U | ICPMSW | Copper | 0.007 | 0.01 | 0.014 | 0.1 | 2 | 50 | 100 |
| U | ICPMSW | Mercury | 0.0001 | <0.0001 | 0.0002 | <0.001 | 0.01 | 0.2 | 2 |
| U | ICPMSW | Molybdenum | 0.045 | 0.011 | 0.09 | 0.17 | 0.5 | 10 | 30 |
| U | ICPMSW | Nickel | 0.001 | 0.001 | 0.002 | 0.01 | 0.4 | 10 | 40 |
| U | ICPMSW | Lead | 0.028 | 0.01 | 0.056 | 0.13 | 0.5 | 10 | 50 |
| U | ICPMSW | Antimony | 0.003 | 0.003 | 0.006 | 0.03 | 0.06 | 0.7 | 5 |
| U | ICPMSW | Selenium | 0.002 | <0.001 | 0.004 | <0.01 | 0.1 | 0.5 | 7 |
| U | ICPMSW | Zinc | 0.099 | 0.06 | 0.198 | 0.66 | 4 | 50 | 200 |
| U | KONENS | Chloride | 4 | 2 | 8 | 23 | 800 | 15000 | 25000 |
| U | ISEF | Fluoride | 0.8 | 0.7 | 1.6 | 7 | 10 | 150 | 500 |
| U | ICPWATVAR | Sulphate as SO4 | 135 | 18 | 270 | 375 | 1000 | 20000 | 50000 |
| N | WSLM27 | Total Dissolved Solids | 439 | 203 | 878 | 2423 | 4000 | 60000 | 100000 |
| U | SFAPI | Phenol Index | <0.05 | 0.11 | <0.1 | <1 | 1 | | |
| N | WSLM13 | Dissolved Organic Carbon | 8.5 | 2.4 | 17 | 34 | 500 | 800 | 1000 |

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

ASBESTOS ANALYSIS RESULTS - SOIL ANALYSIS

| | |
|---------|-------------------------------------|
| Client: | Scientifics Environmental Chemistry |
|---------|-------------------------------------|

Page 1 of 1

Address: Etwall House, Bretby Business Park, Ashby Road, Burton upon Trent

Report No:ANO-0488-2157

For the attention of : Concept Consultants

Report Date:30/09/11

Site Address: Elsworthy Road

Project Number:S118241

[illegible]

*Sampling carried out by client ** Detection limit of Method SCI-ASB-020 is 0.001 *** Analysis carried out 200g Qualitative H&S Screen

The sample analysis for the above results was carried out using the procedures detailed in ESG Asbestos Limited in house method (SCI-ASB-020) based on HSE document MDHS 90 - Asbestos Contaminated Land - Draft 5 - November 1997 (withdrawn). Fibre identification was carried out using ESG Asbestos Limited in house method of transmitted/polarised light microscopy and centre stop dispersion staining (SCI-ASB-007), based on HSE's HSG 248. The analysis of fine fraction for asbestos content only includes fibres and does not discriminate non-asbestos fibres. All fibres are assumed, unless specified, to be amphiboles. All tests were carried out at ESG Asbestos Laboratory, Derwent House, Bretby Business Park, Ashby Road, Burton-upon-Trent, Staffordshire. DE15 0XD. UKAS Laboratory Number 1089.

Key

Authorised Signatory:

Name:

Andrew Elsby

NADIS = No Asbestos Detected in Sample

Position:

Regional Manager

ESG Asbestos Limited is a wholly owned subsidiary of Environmental Scientifics Group Limited (ESG), registered in England and Wales, registered company 04951688.

Where individual results are flagged see report notes for status.

Customer
Site
Report No

Concept Consultants
Elsworthy Road
S118241

Consignment No S23721
Date Logged 28-Sep-2011

| Report Due 05-Oct-2011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-----------------------------|------|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|
| TPHUSI | TPH by GC/FID (Si-UKCWG)>44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TMS | Tot.Moisture @ 105C | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| Sub002a | ^Asbestos Screen | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| SFAS | Sulphide as S (AR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Phenol Index.(AR) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| SFAP1 | Cyanide(Total) (AR) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| PHSOIL | pH units (AR) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| PAHMSUS | PAH (16) by GCMS | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Beryllium. | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| ICPSOIL | Barium. | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Zinc (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Vanadium (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Selenium (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Nickel (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Mercury (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Lead (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Copper (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Chromium (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| | Cadmium (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| ICPMSS | Arsenic (MS) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| ICPBOR | Boron (H2O Soluble) | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| GROHSA | GRO (AA-UK) HSA-GCFID | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | | |
| CustServ | REPORT A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CEN Leac(P)2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEN Leach(P1) | CEN Leac(P)1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MethodID | Sampled | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ID Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accredited to ISO17025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1137664 | TP03 | 0.60 | | 26/09/11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1137665 | TP05 | 0.30 | | 26/09/11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL/1137666 | TP05 | 1.50 | | 26/09/11 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: For analysis where the Report Due date is greater than 7 days (PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may become deviant whilst being processed in the Laboratory.

In this instance, please contact the Laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

A The sample was received in an inappropriate container for this analysis
B The sample was received without the correct preservation for this analysis
C Headspace present in the sample container
D The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E Sample processing did not commence within the appropriate holding time

Requested Analysis Key

Analysis Required

Analysis dependant upon trigger result - **Note: due date may be affected if triggered**

No analysis scheduled

Analysis Subcontracted

Customer
Site
Report No

Concept Consultants
Elsworthy Road
S118241

Consignment No S23721
Date Logged 28-Sep-2011

Report Due 05-Oct-2011

Analytical and Deviating Sample Overview

| ID Number | Description | MethodID | TSBRE1 | WSLMS9 | Total Organic Carbon |
|------------------------|-------------|----------|----------------|--------|----------------------|
| | | Sampled | Total Sulphur. | | |
| Accredited to ISO17025 | | | | | |
| CL/1137664 | TP03 0.60 | 26/09/11 | | | |
| CL/1137665 | TP05 0.30 | 26/09/11 | | | |
| CL/1137666 | TP05 1.50 | 26/09/11 | | | |

Note: For analysis where the Report Due date is greater than 7 days (PAH, Pesticides, PCB, Phenols, Herbicides) or 2 days (BOD) after the sampling date, although we will do our utmost to prioritise your samples, they may become deviant whilst being processed in the Laboratory.

In this instance, please contact the Laboratory immediately should you wish to discuss how you would like us to proceed. If you do not respond within 24 hours, we will proceed as originally requested.

Deviating Sample Key

A The sample was received in an inappropriate container for this analysis
B The sample was received without the correct preservation for this analysis
C Headspace present in the sample container
D The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E Sample processing did not commence within the appropriate holding time

Requested Analysis Key

Analysis Required

Analysis dependant upon trigger result - **Note: due date may be affected if triggered**

No analysis scheduled

Analysis Subcontracted

Method Descriptions

| Matrix | MethodID | Analysis Basis | Method Description |
|--------|-----------|----------------|---|
| Soil | GROHSA | As Received | Determination of Total Gasoline Range Organics Hydrocarbons (GRO) by Headspace GCFID |
| Soil | ICPBOR | Air Dried | Determination of Boron in soil samples by hot water extraction followed by ICPOES detection |
| Soil | ICPMSS | Air Dried | Determination of Metals in soil samples by aqua regia digestion followed by ICPMS |
| Soil | ICPSOIL | Air Dried | Determination of Metals in soil samples by aqua regia digestion followed by ICPOES detection |
| Soil | PAHMSUS | As Received | Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection |
| Soil | PHSOIL | As Received | Determination of pH of 2.5:1 deionised water to soil extracts using pH probe. |
| Soil | SFAPI | As Received | Segmented flow analysis with colorimetric detection |
| Soil | SFAS | As Received | Segmented flow analysis with colorimetric detection |
| Soil | SubCon* | * | Contact Laboratory for details of the methodology used by the sub-contractor. |
| Soil | TMSS | As Received | Determination of the Total Moisture content at 105°C by loss on oven drying gravimetric analysis |
| Soil | TPHUSSI | As Received | Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection including quantitation of Aromatic and Aliphatic fractions. |
| Soil | TSBRE1 | Air Dried | Determination of Total Carbon and/or Total Sulphur in solid samples by high temperature combustion/infrared detection |
| Soil | WSLM59 | Air Dried | Determination of Organic Carbon in soil using sulphurous Acid digestion followed by high temperature combustion and IR detection |
| Water | ICPMSW | As Received | Direct quantitative determination of Metals in water samples using ICPMS |
| Water | ICPWATVAR | As Received | Direct determination of Metals and Sulphate in water samples using ICPOES |
| Water | ISEF | As Received | Determination of Fluoride in water samples by Ion Selective Electrode (ISE) |
| Water | KONENS | As Received | Direct analysis using discrete colorimetric analysis |
| Water | SFAPI | As Received | Determination of Total Phenols by segmented flow analysis with colorimetric detection |
| Water | WSLM13 | As Received | Instrumental analysis using acid/persulphate digestion and dispersive IR detection |
| Water | WSLM2 | As Received | Determination of the Electrical Conductivity ($\mu\text{S}/\text{cm}$) by electrical conductivity probe. |
| Water | WSLM27 | As Received | Gravimetric Determination |

Where individual results are flagged see report notes for status.

Method Descriptions

| Matrix | MethodID | Analysis Basis | Method Description |
|--------|----------|----------------|--|
| Water | WSLM3 | As Received | Determination of the pH of water samples by pH probe |

Where individual results are flagged see report notes for status.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

CR Denotes Crocidolite

AM Denotes Amosite

NAIIS No Asbestos Identified in Sample

Symbol Reference

^ Sub-contracted analysis. Note: The accreditation status is that assigned by the subcontract laboratory.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

Req Analysis requested, see attached sheets for results

▮ Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Where individual results are flagged see report notes for status.

11. PHOTOGRAPHS

| | | | | | |
|-----------------|-----------------------------------|---------|---------|------------|-------|
| Site Name | 48 Elsworthy Road, London NW3 3BU | Job No. | 11/2405 | Trial Pit | TP01 |
| Carried out for | Mr & Mrs Swycher | Date | | Photograph | 1 & 2 |



Photograph No 1



Photograph No 2

| | | | | | |
|-----------------|-----------------------------------|---------|---------|------------|-------|
| Site Name | 48 Elsworthy Road, London NW3 3BU | Job No. | 11/2405 | Trial Pit | TP02 |
| Carried out for | Mr & Mrs Swycher | Date | | Photograph | 3 & 4 |



Photograph No 3



Photograph No 4

| | | | | | |
|-----------------|-----------------------------------|---------|---------|------------|-------|
| Site Name | 48 Elsworthy Road, London NW3 3BU | Job No. | 11/2405 | Trial Pit | TP03 |
| Carried out for | Mr & Mrs Swycher | Date | | Photograph | 5 & 6 |



Photograph No 5



Photograph No 6

| | | | | | |
|-----------------|-----------------------------------|---------|---------|------------|-------|
| Site Name | 48 Elsworthy Road, London NW3 3BU | Job No. | 11/2405 | Trial Pit | TP03 |
| Carried out for | Mr & Mrs Swycher | Date | | Photograph | 7 & 8 |



Photograph No 7



Photograph No 8

| | | | | | |
|-----------------|-----------------------------------|---------|---------|------------|--------|
| Site Name | 48 Elsworthy Road, London NW3 3BU | Job No. | 11/2405 | Trial Pit | TP04 |
| Carried out for | Mr & Mrs Swycher | Date | | Photograph | 9 & 10 |



Photograph No 9



Photograph No 10

| | | | | | |
|-----------------|-----------------------------------|---------|---------|------------|---------|
| Site Name | 48 Elsworthy Road, London NW3 3BU | Job No. | 11/2405 | Trial Pit | TP05 |
| Carried out for | Mr & Mrs Swycher | Date | | Photograph | 11 & 12 |



Photograph No 11



Photograph No 12