

FACTUAL REPORT ON GROUND INVESTIGATION

PROPOSED REDEVELOPMENT:

10a OAKHILL AVENUE, LONDON NW3 7RE



| Client: | ESI Ltd |
|-------------|--|
| | New Zealand House |
| | 160 Abbey Foregate |
| | Shrewsbury |
| | SY2 6FD |
| Report ref: | 9374/MC/AW |
| Date: | 27 th February 2015 [Rev 1] |

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DOCUMENT ISSUE STATUS:

| Issue | Date | Description | Author | Checked/approved |
|-------|-------------|----------------|-------------------------------|--------------------------|
| Rev 0 | 24 May 2013 | First issue | Matthew Clarke | Alan Watson |
| Rev 1 | 27 February | Revised Client | Matthew Clarke | Alan Watson |
| | 2015 | details | BSc(Hons) MSc(Dipl) CGeol FGS | BSc (Eng) CEnv CEng MICE |
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- Index property testing
- Plasticity chart
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1.0 INTRODUCTION

It is proposed to demolish the existing buildings of No. 10a Oakhill Avenue, London NW3 7RE, and to construct a new residential building with four storeys above ground. The design will extend the existing front-aspect lower ground floor level to become a rear-aspect basement and, across some of the existing footprint, extend down for an additional basement level and a swimming pool.

This report presents the findings of a geotechnical ground investigation.

The site is also the subject of a further report: Soil Consultants Limited's, 'Land Stability Report' [Ref 9374D/MC/AW, dated February 2015].

This Report has been prepared for the benefit of the Client and associated parties directly involved with the design and construction of the project under direction of the Client. No reliance can be assumed by others without written agreement from Soil Consultants Limited.

2.0 SITE DESCRIPTION

The site of our investigation comprises the existing residential buildings, at number 10a Oakhill Avenue, in the Frognal and Fitzjohns district of the London Borough of Camden, at postcode NW3 7RE and approximate National Grid Reference 525690E, 185715N.

The site, which is approximately rectangular on plan, extends for some 23m along the northern side of Oakhill Avenue and 60m towards the north-west - covering an area of around 1135m². The existing buildings have a maximum of four above-ground storeys, including the front-aspect lower ground floor and are set amidst hardstanding with peripheral soft landscaping to the front and a garden to the rear. The site is bounded by further residential properties along Oakhill Avenue to the front and side and also to the rear, on Heath Drive.

The general topography slopes gently down, from Parliament Hill 500m to the NE, towards the River Westbourne, some 2.9km to the SW. The site is at an approximate elevation of +93mOD, although there are various elevation changes across the site: from a maximum of +96.25mOD near to the northern corner of the existing building, to +92.20mOD at the southern street boundary. Oakhill Avenue descends the hill along the steepest gradient and there is a fall across the length of the property of around 2.0m. The property is partially cut into the hillside and the southern half has been cut [by some 2.5m] to form an area of level hardstanding, providing access to lower ground floor garages, that are at street level at that end of the site. The northern half of the property is fronted by a terrace garden, which is accessed by stairway; rising from street level to the general 'ground floor' level of +96.2mOD. This general level extends, apart from a western corner of the rear garden which is at a lower elevation, to a point approximately mid-way along the property's length. From here the site slopes down by around 2.0m to the northern boundary.

There are rows of mature trees within the pavement on both sides of Oakhill Avenue and several mature trees, including oaks, within the gardens of the property and neighbouring properties. It is understood that the site has been the subject of an arboricultural survey and it is recommended that this be consulted with regard to tree locations, conditions, height and species.

The current site features are shown on the Site Plan which is included in the Appendix.



3.0 EXPLORATORY WORK

The ground investigation was carried out in May 2013 and the property was in residential occupancy. Potential locations for exploratory holes were therefore limited to those deemed suitable to avoid impeding site usage.

Our investigation comprised the following elements.

Window sample boreholes

Three window sample boreholes [WS1 to WS3] were completed using hand held/operated equipment under the supervision of an experienced geotechnical engineer. This technique involves driving hollow tubes of gradually reducing diameter into the ground using a hydraulically driven jackhammer. After each tube reaches the desired depth, it is removed using hydraulic jacks and the next tube is then driven. This method provides a near-continuous profile of the soil. Pocket penetrometer shear strength testing was performed at various depths and representative samples were taken for geotechnical and environmental testing. Monitoring pipes were installed in each borehole.

Groundwater monitoring

Water monitoring was carried out on two occasions following completion of the site works on 16^{th} May and 24^{th} May 2013.

Geotechnical laboratory testing

The following geotechnical laboratory testing was completed:

- moisture content profiling
- index properties tests [Atterberg Limits]
- pH and water-soluble sulphate tests [by QTS Environmental]

The engineering logs of the exploratory holes and the laboratory testing results to-date are included in the Appendix. The pH and sulphate results are pending and will be appended.

4.0 GROUND CONDITIONS

The geological survey map of the area indicates that the site is underlain by horizons of the London Clay Formation, with the uppermost unit, the Claygate Member at surface. Our investigation confirmed this sequence, beneath a thin cover of topsoil and made ground.

4.1 Made ground

Boreholes WS2 and WS3 were located in areas of existing hard-standing, which was 0.10m and 0.15m thick and comprised paving slabs and tarmac hardstanding, respectively.

4.2 Topsoil

Beneath the paving slab in WS2 and from surface in WS1 was soft, very dark grey-brown, slightly sandy and gravelly, organic silt topsoil. This extended to 0.30m in WS1 and included gravel-size pieces of ash, glass and slate; and in WS2 it extended to 0.70m and included gravel of brick and flint.

4.3 Claygate Member

The Claygate Member was met beneath the made ground and topsoil and, where proven, extended to depths of between 5.95m [+90.20mOD] and 4.90m [+87.70mOD]. This deposit comprised orange-brown and light orange-brown, sandy, silty clay, with pockets and partings of silty sand.



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The Claygate Member was of soft, locally firm, becoming stiff consistency, but was locally soft and firm amidst the stiff. Atterberg Limits tests show these to be of low to intermediate plasticity in the Casagrande classification and, in the NHBC definition, to be soils of low volume-change potential.

Live rootlets were observed only within WS2, at a depth of 2.5m.

4.4 London Clay

The London Clay comprised fissured, dark grey-brown, slightly sandy, silty clay, with occasional pockets and partings of silty sand. The proportion of sand was lower than in the Claygate Member and the sandy pockets less frequent. Where proven the upper surface was present at depths of 4.90m and 5.95m. The London Clay was of stiff consistency.

This formation extended to the base of boreholes WS1 and WS3, at depths of 7.00m [89.15mOD] and 5.00m [87.60mOD].

4.5 Ground-water

Ground-water was encountered within the Claygate Member and rest levels of between 1.07m and 4.14m were measured during monitoring of the standpipes. The range in depths reflects the topographical variation across the site.

| BH | Inflows | Monitor | ring results [depth an | d level] |
|----|-------------|-------------|------------------------|-------------|
| ws | [depth & | 2 May 2013 | 16 May 2013 | 24 May 2013 |
| | level] | | | |
| 1 | Around 4.4m | 3.55m | 4.14m | 3.62m |
| | [+91.75mOD] | [+92.60mOD] | [+92.01mOD] | [+92.53mOD] |
| 2 | Dry | 4.55m | 3.19m | 3.27m |
| | | [+90.20mOD] | [+91.56mOD] | [+91.48mOD] |
| 3 | Around 3.6m | 2.20m | 1.07m | 1.29m |
| | [+89.00mOD] | [+90.40mOD] | [+91.53mOD] | [+91.31mOD] |

Water data are summarised in the table below:



GENERAL INFORMATION, LIMITATIONS AND EXCEPTIONS

Unless otherwise stated, our Report should be construed as being a Ground Investigation Report [GIR] as defined in BS EN1997-2. Our Report is not intended to be and should not be viewed or treated as a Geotechnical Design Report [GDR] as defined in EN1997-2. Any 'design' recommendations which are provided are for guidance only and are intended to allow the designer to assess the results and implications of our investigation/testing and to permit preliminary design of relevant elements of the proposed scheme.

The methods of investigation used have been chosen taking into account the constraints of the site including but not limited to access and space limitations. Where it has not been possible to reasonably use an EC7 compliant investigation technique we have adopted a practical technique to obtain indicative soil parameters and any interpretation is based upon our engineering experience and relevant published information.

The Report is issued on the condition that Soil Consultants Ltd will under no circumstances be liable for any loss arising directly or indirectly from ground conditions between the exploratory points which differ from those identified during our investigation. In addition Soil Consultants Ltd will not be liable for any loss arising directly or indirectly from any opinion given on the possible configuration of strata both between the exploratory points and/or below the maximum depth of the investigation; such opinions, where given, are for guidance only and no liability can be accepted as to their accuracy. The results of any measurements taken may vary spatially or with time and further confirmatory measurements should be made after any significant delay in using this Report.

Comments made relating to ground-water or ground-gas are based upon observations made during our investigation unless otherwise stated. Ground-water and ground-gas conditions may vary with time from those reported due to factors such as seasonal effects, atmospheric effects and and/or tidal conditions. We recommend that if monitoring installations have been included as part of our investigation, continued monitoring should be carried out to maximise the information gained.

Specific geotechnical features/hazards such as [but not limited to] areas of root-related desiccation and dissolution features in chalk/soluble rock can exist in discrete localised areas - there can be no certainty that any or all of such features/hazards have been located, sampled or identified. Where a risk is identified the designer should provide appropriate contingencies to mitigate the risk through additional exploratory work and/or an engineered solution.

Where a specific risk of ground dissolution features has been identified in our Report [anything above a 'low' risk rating], reference should be made to the local building control to establish whether there are any specific local requirements for foundation design and appropriate allowances should be incorporated into the design. If such a risk assessment was not within the scope of our investigation and where it is deemed that the ground sequence may give rise to such a risk [for example near-surface chalk strata] it is recommended that an appropriate assessment should be undertaken prior to design of foundations.

Where spread foundations are used, we recommend that all excavations are inspected and approved by suitably experienced personnel; appropriate inspection records should be kept. This should also apply to any structures which are in direct contact with the soil where the soil could have a detrimental effect on performance or integrity of the structure.

Ground contamination often exists in small discrete areas - there can be no certainty that any or all such areas have been located, sampled or identified.

The findings and opinions conveyed in this Report may be based on information from a variety of sources such as previous desk studies, investigations or chemical analyses. Soil Consultants Limited cannot and does not provide any guarantee as to the authenticity, accuracy or reliability of such information from third parties; such information has not been independently verified unless stated in our Report.

Our Report is written in the context of an agreed scope of work between Soil Consultants Ltd and the Client and should not be used in any different context. In light of additional information becoming available, improved practices and changes in legislation, amendment or re-interpretation of the assessment or the Report in part or in whole may be necessary after its original publication.

Unless otherwise stated our investigation does not include an arboricultural survey, asbestos survey, ecological survey or flood risk assessment and these should be deemed to be outside the scope of our investigation.

[Rev_1_08_03_2013]

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Soil Consultants

Geotechnical Analysis Contamination Assessment

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<u>APPENDIX</u>

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| | | | | | | | | | WS1 |
|---|------------------|--------------------------|-------------------|--------------------|---------------|------------|--|-------------|-----------------|
| Location London NW3 | 7RE | | | | | | | | |
| Client: ESI Ltd | | | | | | | Sheet | | 1 of 3 |
| Engineer: | | | | | | | Report No | »: 9 | 374/MC |
| Comments | S | amples | Field | | Strat | a | Strata Description | | Legend |
| comments | Туре | Depth[m] | Test | Depth[m | ו] | Level[mOD] | | | Ecgena |
| Borehole conducted: 02 May 2013 | D | 0.20 | | 0.00 | 0 | +96.15 | Grey stone dressing over TOPSOIL: Soft, very dark gre brown, slightly sandy and gravelly, organic silt. Gravel ash, glass and slate. | y- is of | 0 |
| | D | 0.50 | | 0.00 | | | 2.7m, orange-brown and light orange-brown, sandy silt with pockets and partings of silty sand. | y CLAY, | |
| | D | 0.90 | | | 1 | | | | 1 - × |
| | D | 1.20 | | | | | | | ×: |
| | D | 1.50 | | | | | | | ×. |
| | D | 1.80 | | | 2 | - | | | 2 |
| | D | 2.10 | | | | | | | |
| | D | 2.40 | | | | | | | × × |
| | | 3.00 | | | 3 | - | | | × |
| | D | 3.30 | | | 5 | | | | |
| Groundwater depth 3.55m [60 minutes after completion]. | | | | | | - | | | x x x |
| | D | 3.80 | | | 4 | | | | 4 |
| Groundwater strike around 4.4m depth | D | 4.30 | | | | | | | |
| | D | 4.80 | | | 5 | - | | | 5 |
| Constructed using tracked rig with cased percu | ussive sa | ampling syste | em [plasti | c liner] | • | | | | • |
| Key: U = Undisturbed B = Bulk D = Small dis | turbed | W = Water | S = SPT 'I | N' [split s | nooo | sampler] C | = SPT 'N' [solid cone] HV = Hand Vane [kPa] PP = Pocket Penetrometer [kg/cr | n²] | |
| Remarks :- Groundwater monitori Ground level interpola | ng we ted fro | ll installed om Kings | d on co Land a | mpletic nd Arcl | on - hitea | see Shee | et 3 for details rvevors' survey drawing (ref. 95274 0001) | Bore | ehole No: |
| | | isingo | a | | | | | | WS1 |
| [* = extrapolated SPT 'N' value] | | | | | | | s | oilCo | nsultants |

Borehole No:

10a Oakhill Avenue

Site

| Site | 10a Oakhill A | ven | ue | | | | | | Borehole No: | | ~ 4 |
|--------------|-----------------------------------|-------------|------------------------------|------------|--------------|----------------|------------|--|-------------------------------|--|-------|
| Location | London NW3 | 7RE | | | | | | | | ws | 51 |
| Client: | ESI Ltd | | | | | | | | Sheet | 2 o | f 3 |
| Engineer: | | | | | | | | | Report No: | 9374 | /MC |
| | Comments | S | amples | Field | | Strat | а | Strata Description | | Le | eaend |
| | | Туре | Depth[m] | Test | Depth[n | n] I | Level[mOD] | | | | |
| Constructed | using tracked rig with cased perc | D D D | 5.30 5.80 6.30 6.80 | em [plasti | 5.95 7.00 | 5 6 7 7 9 9 10 | +90.20 | continued from previous Stiff, locally soft and firm, orange-brown and li brown, sandy silty CLAY, with pockets and par- sand. Stiff, fissured, dark grey-brown, slightly sandy occasional pockets and partings of silty sand. End of borehole at 7.00m. | ght orange- tings of silty | 5 - - - - - - - - - - - - - | |
| Key: U = Und | disturbed B = Bulk D = Small dis | turbed | W = Water S | S = SPT 'N | N' [split s | poon : | sampler] C | = SPT 'N' [solid cone] HV = Hand Vane [kPa] PP = Pocket Penetro | umeter [kg/cm ²] | | |
| Remarks : | - | | | | | | | | Вс | orehole | No: |
| | | | | | | | | | | WS | 51 |
| l° = extrap | oorated SEL IN, value] | | | | | | | | Soil | onsul | tants |

| Control EST Ltd Control EST Ltd Ingreer Departing Borchole Installation and Backfill Details Control Loss Sectorial Sect | Site | 10a Oakhill Ave | nue | | | | | Borehole No: | WS1 |
|--|------------|----------------------------------|--------------------|-----------------|--------|---------------------------------------|-----------------|--------------|--------------|
| Pitter 1 jetti 1 | Location | London NW3 7R | E | | | | | | W 51 |
| improve Openine Openine Torspoil, Cround Level Openine Openine Openine Torspoil, Brantmanie 0.0 0.5.15 Torspoil, CurvesATE MEMBER Filter Growel 0.0 0.5.15 Torspoil, CurvesATE MEMBER Filter Growel 0.0 0.5.15 Torspoil, CurvesATE MEMBER Filter Growel 0.0 Openine Openine Openine Openine | Client: | ESI Ltd | | | | | | Sheet | 3 of 3 |
| <section-header></section-header> | Engineer: | | | | | | | Report No: | 9374/MC |
| Filter Gravel | | | Borehol | e Install | ation | and Bac | kfill Details | | |
| Image: control Livel void 0.00 90.15 Image: control Livel void Bentonite 0.00 90.15 Image: control Livel void Image: control Livel void 0.00 90.15 Image: control Livel void Filter Gravel 0.00 Image: control Livel void Image: control Livel void Filter Gravel 0.00 Image: control Livel void Image: control Livel void Filter Gravel 0.00 Image: control Livel void Image: control Livel void Total void 0.00 Image: control Livel void Image: control Livel void Total void 0.00 Image: control Livel void Image: control Livel void Total void 0.00 Image: control Livel void Image: control Livel void Total void 0.00 Image: control Livel void Image: control Livel void Total void 0.00 Image: control Livel void Image: control Livel void Total void 0.00 Image: control Livel void Image: control Livel void Total void 0.00 Image: control Livel void Image: control Livel void Total void 0.00 Image: control Livel void Image: control Livel void <td></td> <td></td> <td>Den</td> <td>th</td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | Den | th | | | | | |
| Void 0.35 0.10 0.10 Bentonite 1.00 0.15 0.10 0.10 1.00 0.15 0.10 0.10 0.10 Filter Oravel 0.10 0.10 0.10 0.10 Filter Oravel 0.10 0.10 0.10 0.10 1.00 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 | | Ground | (m) Level | | (mOD) | | | | |
| 0.2.5 9.5.0 CLAYGATE MEMBER Bentonite 1.00 9.5.15 CLAYGATE MEMBER Filter Gravel 1.00 9.5.15 CLAYGATE MEMBER Filter Gravel 1.00 9.5.15 CLAYGATE MEMBER Total Tota | | Void | 0.00 | | 96.15 | | TOPSOIL | | |
| Bentonite 1.00 Fiter Gravel Fiter Gravel 0.00 0.0 | | | 0.25 | | 95.90 | | CLAYGATE MEMBER | | |
| Filer Gravel | | Bentonit | e | | | · <u>× · · ·× ·</u> | | | |
| Filter Gravel Fi | | | | | | × · × · | | | |
| Fiter Gravel | | | 1.00 |) 🕅 🕅 | 95.15 | | | | |
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| Constructed using tracked rig with cased percussive sampling system (plastic liner) Remarks :- [] Pipe diameter: 19mm [] Tip at 7m depth [89.15m OD approx] []] Bung fitted Constructed using tracked rig with cased percussive sampling system (plastic liner) | | Filter Gr | avel | | | × <u>·</u> ··× | | | |
| Constructed using tracked rig with cased percussive sampling system [plastic liner] | | | | | | <u> </u> | | | |
| Remarks :- [] Pipe diameter: 19mm [] Tip at 7m depth [89.15m OD approx] Borehole Mo: WS1 | | | | | | ····· | | | |
| Constructed using tracked rig with cased percussive sampling system [plastic liner] Remarks [i] Pipe diameter: 19mm [ii] Tip at 7m depth [89.15m OD approx] [iii] Bung fitted Remarks [ii] Pipe diameter: 19mm [iii] Tip at 7m depth [89.15m OD approx] [iii] Constructed using tracked rig with cased percussive sampling system [plastic liner] | | | | | | <u>× ×</u> | | | |
| Constructed using tracked rig with cased percussive sampling system [plastic liner] | | | | | | | | | |
| Remarks :- [] Pipe diameter: 19mm [] Pipe diameter: 19mm [] Burg fitted | | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| Remarks :- [i] Pipe diameter: 19mm Borehole No: [ii] Tip at 7m depth [89.15m OD approx] Borehole No: [iii] Bung fitted WS1 | | | | | | × | | | |
| Remarks :- [i] Pipe diameter: 19mm Borehole No: [ii] Tip at 7m depth [89.15m OD approx] Borehole No: [iii] Bung fitted WS1 | | | | | | | | | |
| Remarks :- [i] Pipe diameter: 19mm [ii] Tip at 7m depth [89.15m OD approx] Borehole No: WS1 | | | | | | | | | |
| Remarks :- [i] Pipe diameter: 19mm Borehole No: [ii] Tip at 7m depth [89.15m OD approx] WS1 | | | | | | E_E_ | LONDON CLAY | | |
| Remarks :- [i] Pipe diameter: 19mm Borehole No: [ii] Tip at 7m depth [89.15m OD approx] WS1 | | | | | | ~ Z ~ Z | | | |
| Remarks :- [i] Pipe diameter: 19mm Borehole No: [ii] Tip at 7m depth [89.15m OD approx] WS1 | | | | | | ÅÅ | | | |
| 7.00 89.15 Constructed using tracked rig with cased percussive sampling system [plastic liner] Remarks :- [i] Pipe diameter: 19mm [ii] Tip at 7m depth [89.15m OD approx] [iii] Bung fitted | | | | | | \square | | | |
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| Remarks :- [i] Pipe diameter: 19mm Borehole No: [ii] Tip at 7m depth [89.15m OD approx] WS1 [iii] Bung fitted Image: Comparison of the second se | Constructe | d using tracked rig with cased p | ercussive sampling | system [plastic | liner] | | | | |
| [ii] Tip at 7m depth [89.15m OD approx] WS1 [iii] Bung fitted Image: Comparison of the second s | Remarks : | - [i] Pipe diameter: 19mm | | | | | | | Borehole No: |
| [iii] Bung fitted | | [ii] Tip at 7m depth [89.1 | 5m OD approx] | | | | | | WS1 |
| | · | [iii] Bung fitted | | | | | | | |

| Site | 10a Oakhill A | venu | Je | | | | | Borehole No: | |
|------------------|-------------------|------|----------|-------|--------------|-------|------------------|---|---|
| Location | London NW3 | 7RE | | | | | | | |
| Client: | ESI Ltd | | | | | | | Sheet | |
| Engineer: | | | | | | | | Report No: | 2 |
| | Comments | Sa | amples | Field | 9 | Strat | а | Strata Description | |
| | comments | Туре | Depth[m] | Test | Depth[m | i] I | Level[mOD] | Strata Description | |
| Borehole 2013 | conducted: 02 May | D | 0.25 | | 0.00 0.10 | 0 | +94.75 +94.65 | MADE GROUND: Paving slab over light orange-brown, slightly silty sand. TOPSOIL: Soft, very dark grey-brown, slightly sandy and gravelly, organic silt. Gravel is of brick and flint. | |

0.70

1

2

+94.05

D

D

D

D

D

D

D

D

Rootlets at 2.5m depth.

0.50

0.80

1.10

1.40

1.70

2.00

2.30

2.60

Soft, locally firm, becoming stiff, locally soft and firm, below

with pockets and partings of silty sand.

3.4m, orange-brown and light orange-brown, sandy silty CLAY,

WS2

Legend

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×

4

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Borehole No:

Soil Consultants

WS2

1

2

1 of 2

n

9374/MC eport No:

D 2.90 3 D 3.40 3.90 D 4 D 4.40 Groundwater depth 4.55m [10 minutes after completion]. Borehole dry throughout boring D 4.90 +89.75 End of borehole at 5.00m 5.00 5 Constructed using tracked rig with cased percussive sampling system [plastic liner] Key: U = Undisturbed B = Bulk D = Small disturbed W = Water S = SPT 'N' [split spoon sampler] C = SPT 'N' [solid cone] HV = Hand Vane [kPa] PP = Pocket Penetrometer [kg/cm²] Remarks :- Groundwater monitoring well installed on completion - see Sheet 2 for details Ground level interpolated from Kings Land and Architectural Surveyors' survey drawing (ref. 95274.0001) [* = extrapolated SPT 'N' value]

| Site | 10a Oakhill Avenue | | | | | Borehole No: | WS2 |
|------------|---|---|----------------------------------|---------|--|--------------|--------------|
| Client: | ESI Ltd | | | | | Sheet | 2 of 2 |
| Engineer: | | | | | | Report No: | 9374/MC |
| | Bor Ground Level Void | ehole Insta Depth (m) 0.00 0.25 | Level (mOD) 94.75 94.50 | and Bac | kfill Details MADE GROUND TOPSOIL | | |
| Constructe | Filter Gravel | 1.00 5.00 | 93.75 89.75 | | CLAYGATE MEMBER | | |
| Remarks | a using tracked rig with cased percussive s | ampling system [plas | suc iinerj | | | | Darak - L- N |
| Komarks : | I) Pipe diameter: 35mm [ii] Tip at 5m depth [89.75m OD a [iii] Bung fitted | pprox] | | | | | WS2 |
| | | | | | | Soil | Consultant |

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| Site | 10a Oakhill A | veni | ue | | | | | | Borehole No: | | M62 | | | |
|--------------------|-------------------|---------------|----------------------|---------------|--------------|-------|------------------|---|-------------------------------|----|--------|--|--|--|
| ocation | London NW3 | ondon NW3 7RE | | | | | | | | | | | | |
| Client: | ESI Ltd | | | | | | | | Sheet | | 1 of 2 | | | |
| Engineer: | | | | | | | | | Report No: | 93 | 74/MC | | | |
| | Comments | S Type | amples Depth[m] | Field Test | S Depth[m | Strat | a _evel[mOD] | Strata Description | | | Legend | | | |
| 3orehole (2013 | conducted: 02 May | D D D | 0.25 0.50 0.70 | | 0.00 | 0 | +92.60 +92.45 | MADE GROUND: Reinforced concrete slab. Firm, becoming stiff, locally firm, below 1.8m, and light orange-brown, sandy silty CLAY, wit partings of silty sand. | orange-brown h pockets and | | | | | |

| | D | 0.25 | | | | | and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | | <u>× </u> | |
|--|---------|--------------|------------|--------------------------|--------|------------|---|------|---------------------------------------|---|
| | | | | | | | | | × | |
| | D | 0.50 | | | | | | 2 | <u></u> | |
| | | | | | | | | - | <u> </u> | |
| | D | 0.70 | | | | | | Ŀ | <u>-</u> | |
| | | | | | | | | | × · | |
| | D | 1.00 | | | 1 | | | 1 | <u></u> | |
| | | | | | | | | - | | |
| | D | 1.30 | | | | | | ÷ | | |
| | | | | | | | | | | |
| | D | 1.60 | | | | | | | | |
| | | | | | | | | | ×. | |
| | П | 1 90 | | | | | | | × | |
| | D | 1.70 | | | 2 | | | 2 ? | <u></u> | - |
| Consumption doubte 2, 2000 [10 | | | | | | | | - | × × | |
| minutes after completion]. | D | 2.20 | | | | | | ŀ | | |
| | | | | | | | | | | |
| | | | | | | | | 2 | · · · · · · · · · · · · · · · · · · · | |
| | D | 2.70 | | | | | | | × | |
| | | | | | | | | | | |
| | D | 3 00 | | | 3 | | | 3 | <u> </u> | _ |
| | 5 | 0100 | | | U | | | ľ. | X | |
| | | | | | | | | | <u>×</u> | |
| | | | | | | | | | × | |
| | D | 3.50 | | | | | | > | <u></u> | |
| Groundwater strike around 3.6m | | | | | | | | - | ix i | |
| depth | | | | | | | | ÷ | | |
| | | | | | | | | . 5 | | |
| | D | 4.00 | | | 4 | | | 4 | X | |
| | | | | | | | | | <u>×</u>] | |
| | | | | | | | | | × | |
| | D | 4.50 | | | | | | 2 | <u></u> | |
| | | | | | | | | - | <u>× ×</u> | |
| | | | | | | | Stiff, fissured, dark grey-brown, slightly sandy silty CLAY, with | ŀ | | |
| | | | | 4.90 | | +87.70 | occasional pockets and partings of silty sand. | | Ĭ. | |
| | | | | 5.00 | 5 | +87.60 | End of borehole at 5.00m. | 5 | | _ |
| Kev: U = Undisturbed B = Bulk D = Small dist | urbed W | upling syste | s = SPT 'N | ; iiner] ' [split si | ooon - | sampler1 C | = SPT 'N' [solid cone] HV = Hand Vane [kPa] PP = Pocket Penetrometer [kn/cm²] | | | - |
| Remarks :- Groundwater monitorir | ng well | installed | l on cor | npletic | on - | see Shee | et 2 for details Bore | hole | No: | - |
| Ground level interpolat | ed fror | m Kings | Land ar | nd Arcl | hited | ctural Su | rveyors' survey drawing (ref. 95274.0001) | w/4 | 53 | |
| | | | | | | | | | | |
| i = extrapolated SPT 'N' value] | | | | | | | | | | |



| Site | 10a Oakhill Avenue | | | | | Borehole No: | WS3 |
|-----------|--|-------------------------|------------|---|-----------------|--------------|--------------|
| Location | London NW3 7RE | | | | | | 1135 |
| Client: | ESI Ltd | | | | | Sheet | 2 of 2 |
| Engineer: | | | | | | Report No: | 9374/MC |
| | Bo | orehole Insta | llation | and Bac | kfill Details | | |
| | | Donth | Loval | | <u>Neturo</u> | | |
| | Ground Loval | (m) | (mOD) | | | | |
| | Void | 0.00 | 92.60 | | MADE GROUND | | |
| | Volu | 0.25 | 92.35 | | CLAYGATE MEMBER | | |
| | | | | <u> </u> | | | |
| | Pontonito | | | <u>· ×·</u> · ×· | | | |
| | Bentonite | | | | | | |
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| | Filter Gravel | | <u>i</u> | | | | |
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| | | | | <u> </u> | | | |
| | | 5.00 | 87.60 | \neq | LONDON CLAY | | |
| onstructe | d using tracked rig with cased percussiv | e sampling system [plas | tic liner] | | FORMATION | | |
| emarks : | - [i] Pipe diameter: 35mm | | | | | | Borehole No: |
| | [ii] Tip at 5m depth [87.6m OD | approx] | | | | | WS3 |
| | [iii] Bung fitted | | | | | | |
| | | | | | | Soil | Consulta |

10a Oakhill Avenue Location London NW3 7RE

Site

Report No:

9374/MC

| | | | | Ро | cke | et Pene | tromet | er | Test Re | esults | | | | | | |
|--------------|-----------------------|----|--------------|-----------------------|-----|--------------|-----------------------|-----|---------|-----------------------|------------|-------|-----------------------|------------|-------|-----------------------|
| 10/ | C1 | IF | 14 | 6.2 | | 14/ | 6.2 | 1 1 | | | – – | | | – – | | |
| Depth | S I Value | | VV Depth | 52 Value | · | VV Depth | S3 Value | | Denth | Value | - | Denth | Value | - | Denth | Value |
| [m] | [kg/cm ²] | | [m] | [kg/cm ²] | | [m] | [kg/cm ²] | | [m] | [kg/cm ²] | | [m] | [kg/cm ²] | | [m] | [kg/cm ²] |
| 0.50 | 1.7 | | 0.90 | 1.5 | | 0.60 | 1.8 | | - | | | - | | | - | |
| 0.75 | 1.2 | | 1.20 | 1.3 | | 0.90 | 1.6 | | | | | | | | | |
| 1.00 | 0.7 | | 1.50 | 1.7 | | 1.20 | 1.8 | | | | | | | | | |
| 1.50 | 1.7 | | 2.10 | 1.8 | | 1.80 | 2.7 | | | | | | | | | |
| 1.75 | 1.7 | | 2.40 | 2.0 | | 2.10 | 1.9 | | | | | | | | | |
| 2.00 | 1.5 | | 2.70 | 1.8 | | 2.40 | 2.5 | | | | | | | | | |
| 2.25 | 1.1 | | 3.00 | 1.8 | | 2.70 | 2.9 | | | | | | | | | |
| 2.75 | 1.9 | | 3.60 | 2.2 | | 3.30 | 2.4 | | | | | | | | | |
| 3.00 | 1.5 | | 3.90 | 2.2 | | 3.60 | 1.8 | | | | | | | | | |
| 3.25 | 1.4 | | 4.20 | 2.7 | | 3.90 | 2.2 | | | | | | | | | |
| 3.50 3.75 | 1.0 1.4 | | 4.50 4.80 | 1.8 3.4 | | 4.40 4.90 | 1.0 1.6 | | | | | | | | | |
| 4.00 | 2.2 | | 5.00 | 3.4 | | | | | | | | | | | | |
| 4.25 | 2.0 | | | | | | | | | | | | | | | |
| 4.50 | 0.8 | | | | | | | | | | | | | | | |
| 4.75 | 1.2 | | | | | | | | | | | | | | | |
| 5.25 | 2.9 | | | | | | | | | | | | | | | |
| 5.50 | 3.2 | | | | | | | | | | | | | | | |
| 5.75 | 2.6 | | | | | | | | | | | | | | | |
| 6.00 6.25 | 2.6 | | | | | | | | | | | | | | | |
| 6.50 | 1.7 | | | | | | | | | | | | | | | |
| 6.75 | 1.6 | | | | | | | | | | | | | | | |
| 7.00 | 1.8 | | | | | | | | | | | | | | | |
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| Notes | | | | | | | | | | | | | | | | |
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Site Location **10**

10a Oakhill Avenue, London NW3 7RE

9374/MC

Ref:

| 16/05/2013 10:45 WS1 4.14 6.15 AC 24/05/2013 12:00 WS1 3.62 - - - 24/05/2013 12:00 WS2 3.27 - - - MVR 24/05/2013 12:00 WS1 3.62 - - - - 24/05/2013 12:00 WS1 3.62 - - - - WS2 3.27 - - - - - - WS3 1.29 - - - - - - WS3 1.29 - - - - - - Image: Contract of the state | Date | Time | Well Ref | Groundwater depth from surface [m] | Depth of base of monitoring pipe from surface [m] | Comments | Recorde by |
|---|------------|-------|----------|---|--|----------|---------------|
| WS2 3.19 4.95 24/05/2013 12:00 WS1 3.62 - WS3 1.29 - WS3 1.29 - | 16/05/2013 | 10:45 | WS1 | 4.14 | 6.15 | | AC |
| WS3 1.07 3.40 24/05/2013 12:00 WS1 3.62 - WS3 1.29 - - WS3 - - - WS3 - - - WS3 - - - WS3 - - - WS4 - - - WS5 - - - WS4 - - - WS5 - - - WS5 - - - WS4 - | | | WS2 | 3.19 | 4.95 | | |
| 24/05/2013 12:00 WS1 3.62 - WS2 3.27 - WS3 1.29 - WS3 1.29 - MVR | | | WS3 | 1.07 | 3.40 | | |
| WS2 3.27 WS3 1.29 | 24/05/2013 | 12:00 | WS1 | 3.62 | - | | M∨R |
| WS3 1.29 - | | | WS2 | 3.27 | - | | |
| | | | WS3 | 1.29 | - | | |
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Site

10a Oakhill Avenue Location London NW3 7RE

Report No:

9374/MC

| | | Index Proper | ty Test | Resul | ts | | | Sheet 1 of |
|----------|-------------|---|--------------|------------|------------|------------|-------------|----------------------------|
| | | | Moisture | Liquid | Plastic | Plasticity | Percent | |
| Sample | Depth | Sample | Content | Limit | Limit | Index | Passing | |
| ocation | (m) | Description | [%] | [%] | [%] | [%] | [%] | Remarks |
| WS1 | 0.90 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 25 | 33 | 17 | 16 | 100 | Kondiko |
| | 1.20 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 26 | | | | | |
| | 1.50 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 28 | | | | | |
| | 1.80 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 28 | | | | | |
| | 2.10 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 29 | | | | | |
| | 2.40 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 26 | | | | | |
| | 2.70 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 29 | | | | | |
| | 3.00 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 29 | 33 | 19 | 14 | 100 | |
| | 3.30 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 30 | | | | | |
| | 3.80 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 30 | | | | | |
| | 4.30 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 27 | | | | | |
| | 4.80 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 30 | | | | | |
| | 5.30 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 29 | | | | | |
| otes | | • | | | | | | |
| Moistur | e contont | test: BS 1377-Part 2 [1000] Clause 2.2 [volue in | n hrackots | - calculat | ed matrix | moisture | content for | comparison with LL and DL1 |
| line 11 | | | | | | | | companison with LL and PL] |
| Liquid a | ind Plastic | : LIMIT: BS 1377: Part 2 [1990] Clauses 4.4, 5.2, | 5.3, 5.4 i | s carried | out on fin | ie grained | soli matrix | |
| Percent | passing 4 | 425 micron sieve is by estimation, by hand* or by | y wet sievin | ıg** | | | | |

- LOI = Loss on Ignition

Sample examined by MC (Engineer)

Results checked by MC (Engineer)

24/05/2013 Certificate date :



Site Location

10a Oakhill Avenue London NW3 7RE

Report No:

9374/MC

| | | Index Propert | y Test | Resul | ts | | | Sheet 2 of 3 |
|----------------------------------|--------------------------|---|--------------------------|-------------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| | | | Moisture | Liquid | Plastic | Plasticity | Percent | |
| Sample | Depth | Sample | Content | Limit | Limit | Index | Passing | |
| Location | (m) | Description | [%] | [%] | [%] | [%] | [%] | Remarks |
| WS1 | 5.80 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 31 | 39 | 20 | 19 | 100 | |
| | 6.30 | Dark grey-brown, slightly sandy silty CLAY, with occasional pockets and partings of silty sand. | 29 | | | | | |
| | 6.80 | Dark grey-brown, slightly sandy silty CLAY, with occasional pockets and partings of silty sand. | 26 | | | | | |
| WS2 | 0.80 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 25 | | | | | |
| | 1.10 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 24 | | | | | |
| | 1.40 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 24 | | | | | |
| | 1.70 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 27 | | | | | |
| | 2.00 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 27 | | | | | |
| | 2.30 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 28 | | | | | |
| | 2.60 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 26 | | | | | |
| | 2.90 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 27 | | | | | |
| | 3.40 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 25 | | | | | |
| | 3.90 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 26 | | | | | |
| Notes - Moistur - Liquid a | e content and Plastic | sandy silty CLAY, with pockets and partings of silty sand. test: BS 1377:Part 2 [1990] Clause 3.2 [value in Limit: BS 1377:Part 2 [1990] Clauses 4.4, 5.2, | brackets = 5.3, 5.4 i | = calculat s carried | ed matrix out on fin | a moisture ne grained : | content for soil matrix | comparison with LL and PL] |

- Percent passing 425 micron sieve is by estimation, by hand* or by wet sieving**

- LOI = Loss on Ignition

Sample examined by MC (Engineer)

Results checked by MC (Engineer)

24/05/2013 Certificate date :



Site Location

10a Oakhill Avenue London NW3 7RE

Report No:

9374/MC

| | Percent | Plasticity | Plastic | Liquid | Moisture | | | |
|---------|---------|------------|---------|--------|----------|---|-------|---------|
| | Passing | Index | Limit | Limit | Content | Sample | Depth | ample |
| Remarks | [%] | [%] | [%] | [%] | [%] | Description | (m) | ocation |
| | | | | | 30 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 4.40 | NS2 |
| | | | | | 27 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 4.90 | |
| | | | | | 28 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 0.70 | WS3 |
| | | | | | 24 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 1.00 | |
| | | | | | 27 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 1.30 | |
| | | | | | 27 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 1.60 | |
| | | | | | 27 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 1.90 | |
| | | | | | 30 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 2.20 | |
| | | | | | 26 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 2.70 | |
| | | | | | 25 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 3.00 | |
| | | | | | 31 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 3.50 | |
| | | | | | 29 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 4.00 | |
| | | | | | 27 | Orange-brown and light orange-brown, sandy silty CLAY, with pockets and partings of silty sand. | 4.50 | |

- Percent passing 425 micron sieve is by estimation, by hand* or by wet sieving**

- LOI = Loss on Ignition

Sample examined by MC (Engineer)

Results checked by MC (Engineer)

24/05/2013 Certificate date :

SoilConsultants











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