



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH1

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|--------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 14/12/2004 | End date | |
| Ground level | 41.32 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 15.30 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | |
|-----------------|---------|---|---------|------|-----------|-------|--------|-------|---------------------|--|
| | Depth | SPT(N value) CPT(N value) l(blow) | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | |
| | | | 0.50 | D | | | | | FILL | <p>Medium dense pale brown and orange brown sandy clay FILL with much ragstone, frequent fine to medium clinker, ash, brick and concrete gravel. Frequent black organic and cemented white sandy partings, and occasional fine roots.</p> <p>From 2-3m becoming increasingly sandy and gravelly with coarse to cobble sized ragstone gravels, clayey pockets and much red brick.</p> <p>At 3.5m much cobble sized ragstone gravel.</p> <p>Medium dense to dense orange and grey brown clayey sandy FILL with much fine to coarse ragstone, frequent brick, concrete, clinker, hardcore, ash, with black organic and cemented sandy partings.</p> <p>From 4.5-5m - Very clayey.</p> <p>At 5m becoming increasingly sandy.</p> <p>At 5.5m becoming a pale brown and green grey sandy clay.</p> <p>Dense green and grey ragstone gravel FILL in a clayey sandy matrix with many orange red brown sandy clayey partings. Fine to coarse weathered ironstained fragments.</p> <p>Dense green grey sandy orange brown clayey FILL with fine to coarse weak weathered ironstained ragstone.</p> <p>At 7.5m friable pale brown clay.</p> <p>From 9.5-10.5m green grey clayey sand with fine-medium ragstone gravel and frequent red orange brown sandy clay pockets.</p> <p>From 10.5-12m becoming green grey slightly clayey sandy with fine to coarse ragstone gravel.</p> <p>At 12m tending to a sandy clay with occasional cobbles. At 12.5m slightly clayey sandy.</p> <p>At 13m orange brown friable fine sandy clay FILL with frequent fine-coarse ragstone gravels, with frequent black speckling.</p> <p>Dense to very dense green grey fine to cobble sized ragstone fragments in a clayey sandy matrix. Refusal at 15.3m on very dense rock.</p> <p>End of Borehole</p> |
| | | | 1.00 | D | | | | | | |
| | 1.50 | CPT (15) | 1.50 | B | | | | | | |
| | | | 2.00 | D | 4.20 | | | | | |
| | | | 2.50 | D | | | | | | |
| | 3.00 | CPT (25) | 3.00 | B | | | | | | |
| | | | 3.50 | D | | | | | | |
| | | | 4.50 | B | | 37.12 | | 4.20 | FILL | |
| | | | 5.00 | D | | | | | | |
| | | | 5.50 | D | 2.20 | | | | | |
| | 6.00 | CPT (58) | 6.00 | B | | | | 6.40 | FILL | |
| | | | 7.00 | D | 0.50 | 34.92 | | 6.90 | FILL | |
| | | | 7.50 | B | | 34.42 | | | | |
| | | | 8.00 | D | | | | | | |
| | | | 8.50 | D | | | | | | |
| | 9.00 | CPT (34) | 9.00 | B | | | | | | |
| | | | 9.50 | D | | | | | | |
| | | | 10.00 | D | | | | | | |
| | 10.50 | CPT (31) | 10.50 | B | | | | | | |
| | | | 11.00 | D | 8.20 | | | | | |
| | | | 11.50 | D | | | | | | |
| | 12.00 | CPT (36) | 12.00 | B | | | | | | |
| | | | 12.50 | D | | | | | | |
| | | | 13.00 | D | | | | | | |
| | 13.50 | CPT (39) | 13.50 | B | | | | | | |
| | | | 14.00 | D | | | | | | |
| | | | 14.50 | D | | | | | | |
| | 15.00 | CPT (40 for 150mm) | 15.00 | B | 0.20 | 26.22 | | 15.10 | FILL | |
| | | | 15.10 | D | | 26.02 | | 15.30 | FILL | |
| | | | 15.30 | D | | | | | | |

| Hole Diameters | | | Water Strikes | | | | | Chiselling Time | | | General Remarks | |
|----------------|-----------|-------------|---------------|-----------|------------|-------------|-------------|-----------------|----------|--------|-----------------|------------|
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | | Time (hrs) |
| 6.00 | | 200 | 14/12/04 | Dry | | | | | 6.40 | 6.90 | | 1 |
| | | | | | | | | | 15.10 | 15.30 | 1 | |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH3

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|------------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 13/12/2004 | End date | 14/12/2004 |
| Ground level | 38.46 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 14.60 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | | |
|-----------------|---------|---|---------|------|-----------|-------|--------|-------|---------------------|--|--|
| | Depth | SPT (N value) CPT (N value) (blows) | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | |
| | | | 0.50 | D | 1.00 | | | | FILL | Medium dense yellow brown silty sandy clay FILL with frequent fine to coarse ragstone gravels and fine to medium brick and concrete. Occasional fine roots, clinker, ash and black organic pockets. | |
| | 1.50 | SPT (10) | 1.00 | D | 0.40 | 37.46 | | 1.00 | FILL | | |
| | | | 1.50 | D | | 37.06 | | 1.40 | FILL | | |
| | | | 2.00 | D | | | | | FILL | Medium dense pale brown silty very sandy clay FILL with much fine to cobble sized ragstone gravels. Occasional fine to medium brick, concrete and clinker. Clayey partings with black silty pockets. | |
| | 3.00 | SPT (32) | 2.50 | D | 2.10 | | | | FILL | | |
| | | | 3.00 | D | | 34.96 | | 3.50 | FILL | | |
| | | | 3.50 | D | | | | | FILL | Stiff yellow and orange brown, mottled grey sandy silty clay FILL with fine to medium brick, concrete, clinker, ash and ragstone gravel. Occasional black organic and ironstained pockets. | |
| | 4.50 | SPT (25) | 4.00 | D | 0.90 | 34.06 | | 4.40 | FILL | | |
| | | | 4.50 | D | | | | | FILL | Medium dense orange brown slightly silty very sandy clay FILL with much fine to medium brick, concrete, flint, clinker, glass and ragstone gravel. Occasional plastic fragments. | |
| | | | 5.00 | D | | | | | FILL | | |
| | 6.00 | CPT (50 for 75mm) | 5.50 | D | 2.20 | | | 6.60 | FILL | | |
| | | | 6.00 | D | | 31.86 | | 7.40 | FILL | Dense orange brown and brown sandy clay FILL with much fine to medium brick, concrete and ragstone gravel. Occasional black pockets and speckling. Occasional roots. Musty odour. | |
| | 7.50 | CPT (7) | 6.50 | D | | 31.06 | | 8.00 | FILL | | |
| | | | 7.00 | D | | 30.46 | | | FILL | Stiff orange brown sandy clay FILL with much fine to coarse ragstone gravel, brick, concrete, and frequent black silty pockets. | |
| | | | 7.50 | D | | | | | FILL | | |
| | 9.00 | CPT (11) | 8.00 | D | | | | 10.90 | FILL | Very dense pale brown and green grey medium to cobble size angular ragstone gravel FILL in a silty sandy clayey matrix with black speckling. | |
| | | | 8.50 | D | | | | | FILL | Loose green grey sandy fine to cobble sized ragstone gravel FILL in a silty sandy matrix. | |
| | 10.50 | CPT (12) | 9.00 | D | | 27.56 | | 12.90 | FILL | Medium dense silty sandy clay FILL with frequent fine to coarse brick, concrete and ragstone gravel. | |
| | | | 9.50 | D | | | | | FILL | Medium dense to dense green grey and pale brown very sandy clay FILL with much fine to coarse ragstone gravels and dark red brown sandy clayey pockets. Refusal on dense rock at 14.6m. | |
| | 12.00 | CPT (38) | 10.00 | D | 2.00 | | | | FILL | | |
| | | | 10.50 | D | | 25.56 | | | FILL | | |
| | | | 11.00 | D | | | | | FILL | | |
| | 13.50 | CPT (20) | 11.50 | D | | | | 14.60 | FILL | | |
| | | | 12.00 | D | | 23.86 | | | FILL | | |
| | | | 12.50 | D | | | | | FILL | | |
| | | | 13.00 | D | | | | | FILL | | |
| | | | 13.50 | D | 1.70 | | | | FILL | | |
| | | | 14.00 | D | | | | | FILL | | |
| | | | 14.50 | D | | | | | FILL | | |
| | | | 14.60 | D | | | | | FILL | End of Borehole | |

| Hole Diameters | | | Water Strikes | | | | | | Chiselling Time | | | General Remarks |
|----------------|-----------|-------------|---------------|-----------|------------|-------------|-------------|------------|-----------------|--------|------------|---|
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | Time (hrs) | |
| 6.00 | | 200 | 14/12/04 | Dry | | | | | 6.00 | 6.60 | 0.5 | Installation: GL to 11.6m plain, 11.6 to 14.60m slotted with pea shingle surround. Bentonite seal GL-1m and 11.6-10.6m. Finish with gas tap and stop cock cover. |
| 14.60 | | 200 | | | | | | | 14.40 | 14.60 | 0.5 | |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH4

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|--------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 13/12/2004 | End date | |
| Ground level | 35.55 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 6.20 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | | | |
|-----------------|-----------|---|---------------|-----------|------------|-------------|-------------|-----------------|---------------------|--|---|------------|
| | Depth | SPT (N value) CPT (N value) U (blows) | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | | |
| | | | 0.50 | D | 1.50 | | | | FILL | Medium dense orange brown sandy clay FILL with much fine to cobble sized ragstone gravel, fine brick, clinker and charcoal. | | |
| | 1.50 | CPT (14) | 1.00 | D | | | | 1.50 | FILL | At 1.0m cobble sized ragstone gravel. | | |
| | | | 1.50 | B | | 34.05 | | | | | | |
| | | | 2.00 | D | 1.00 | | | 2.50 | FILL | Medium dense brown very sandy clay FILL with much fine to coarse ragstone gravel. occasional fine to medium brick, concrete, ash and clinker, with black organic clayey pockets. | | |
| | | | 2.50 | D | | 33.05 | | 3.00 | FILL | | | |
| | 3.00 | SPT (17) | 3.00 | D | 0.50 | 32.55 | | 3.50 | FILL | Medium dense green grey and yellow brown slightly clayey sandy fine to cobble sized ragstone gravel FILL, occasional red brick, fine roots and black decomposing matter. | | |
| | | | 3.00 | B | 0.50 | 32.05 | | 5.00 | FILL | Medium dense brown sandy clay FILL with frequent fine to coarse ragstone gravel occasional fine to medium brick and concrete, fine roots and black silty pockets. | | |
| | | | 3.50 | D | | | | 6.00 | FILL | | | |
| | 4.50 | CPT (21) | 4.00 | D | 1.50 | | | 6.20 | FILL | Medium dense orange brown sandy clay FILL with much fine to cobble sized ragstone gravel, occasional brick, ash and clinker. Frequent cemented sandy partings and black silty pockets. | | |
| | | | 4.50 | B | | | | | | | | |
| | | | 5.00 | D | | 30.55 | | | | At 3.5m cobble sized ragstone gravel. | | |
| | | | 5.50 | D | 1.00 | | | | | At 4m fine to coarse brick. | | |
| | 6.00 | CPT (41 for 75mm) | 6.00 | B | 0.20 | 29.55 | | | | Medium dense brown and dark orange brown ironstained sandy clay FILL with much fine to cobble sized ragstone gravel. Occasional clinker, and black organic pockets. | | |
| | | | 6.20 | D | | 29.35 | | | | At 5.5m ash / clinker fragments. Tending to a brown sandy clay with depth. | | |
| | | | | | | | | | | Dense grey brown coarse to cobble sized ragstone gravel FILL in a silty sandy matrix. Refusal at 6.2m on very dense rock. | | |
| | | | | | | | | | | At 6.1m tending to a brown sandy clay. | | |
| | | | | | | | | | | End of Borehole | | |
| Hole Diameters | | | Water Strikes | | | | | Chiselling Time | | | General Remarks | |
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | | Time (hrs) |
| 6.00 | | 200 | 13/12/04 | Dry | | | | | 6.10 | 6.20 | | 1 |
| | | | | | | | | | | | Water added from GL to 6m to aid drilling. | |
| | | | | | | | | | | | Installation: GL to 3m plain, 3 to 6m slotted with pea shingle surround. Bentonite seal GL-1m and 2-3m. | |
| | | | | | | | | | | | Finish with gas tap and stop cock cover. | |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH5

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|--------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 22/12/2004 | End date | |
| Ground level | 36.60 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 22.50 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | | |
|-----------------|---------|--|---------|------|-----------|-------|--------|-------|---------------------|---|--|
| | Depth | SPT(N value) CPT(N value) U(ktone) | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | |
| | | | 0.50 | D | 0.90 | | | | FILL | Dense to very dense green grey fine to coarse and cobble sized weak to moderately weak ragstone gravel FILL in a brown and grey with black speckling clay matrix. Occasional ash pockets. | |
| | | | 1.00 | D | | 35.70 | | 0.90 | FILL | | |
| | 1.50 | CPT (40 for 150mm) | 1.50 | B | | | | | | Dense dark grey to grey brown very sandy gravelly clay FILL with much weak to moderately strong fine to cobble sized ragstone gravel, occasional brick, limestone, breeze block and ashy pockets. | |
| | | | 2.00 | D | | | | | | | |
| | | | 2.50 | D | 3.60 | | | | | | |
| | 3.00 | CPT (30 for 75mm) | 3.00 | B | | | | | | | |
| | | | 3.50 | D | | | | | | | |
| | | | 4.00 | D | | | | | | | |
| | 4.50 | CPT (50 for 150mm) | 4.50 | D | | 32.10 | | 4.50 | | | |
| | | | 5.00 | D | | | | | FILL | Medium dense dark green grey slightly clayey moderately weak to medium strong fine to cobble sized ragstone gravel FILL in a silty sandy clayey matrix. | |
| | 6.00 | CPT (21) | 6.00 | B | 2.40 | | | | | | |
| | | | 6.50 | D | | | | | | | |
| | | | 7.00 | D | | 29.70 | | 6.90 | | | |
| | 7.50 | CPT (11) | 7.50 | B | | | | | FILL | Medium dense orange brown silty clay FILL with much shredded plastic (15-20%), metal, ash, clinker, glass, ceramic, rubber, possible asbestos, chalk, brick, and ragstone gravel. | |
| | | | 8.00 | D | | | | | | | |
| | | | 8.50 | D | | | | | | | |
| | 9.00 | CPT (10) | 9.00 | B | | | | | | | |
| | | | 9.50 | D | 4.90 | | | | | Possible asbestos containing material in sample 5-10%(?) | |
| | | | 10.00 | D | | | | | | | |
| | 10.50 | CPT (8) | 10.50 | B | | | | | | | |
| | | | 11.00 | D | | | | | | | |
| | | | 11.50 | D | | | | | | | |
| | 12.00 | CPT (32) | 12.00 | B | | 24.80 | | 11.80 | | | |
| | | | 12.30 | D | | | | | FILL | Medium dense grey brown and green grey, speckled black silty sand/clay FILL with much fine to cobble sized ragstone gravel. | |
| | | | 13.00 | D | | | | | | | |
| | 13.50 | CPT (28) | 13.50 | B | | | | | | | |
| | | | 14.00 | D | 4.50 | | | | | | |
| | | | 14.50 | D | | | | | | | |
| | 15.00 | CPT (14) | 15.00 | B | | | | | | | |
| | | | 15.50 | D | | | | | | | |
| | | | 16.00 | D | | | | | | | |
| | 16.50 | SPT (30) | 16.50 | D | 0.60 | 20.30 | | 16.30 | | | |
| | 16.50 | UCS (150) | 16.50 | D | | 19.70 | | 16.90 | CLAY | Firm dark brown very fine sandy CLAY with occasional fine iron stained gravels | |
| | 17.00 | UCS (200) | 17.00 | D | | | | | CLAY | Stiff light grey mottled yellow and orange brown very fine sandy CLAY | |
| | | | 17.50 | D | 1.70 | | | | | | |
| | 18.00 | SPT (31) | 18.00 | D | | | | | | | |
| | | | 18.00 | B | | 18.00 | | 18.60 | | | |
| | | | 18.00 | D | | | | | CLAY | Very stiff to stiff fissured pale brown mottled orange brown very fine sandy silty CLAY with occasional iron stained pockets | |
| | 19.00 | UCS (300) | 18.50 | D | | 1.30 | | | | | |
| | | | 19.00 | D | | | | | | | |
| | 19.50 | SPT (35) | 19.50 | D | | | | | | | |
| | | | 19.50 | D | | 16.70 | | 19.90 | | | |
| | 20.00 | UCS (170) | 19.50 | D | | | | | CLAY | Stiff fissure dark grey brown mottled pale grey fine sandy silty CLAY | |
| | | | 20.00 | D | 1.30 | | | | | | |
| | | | 20.50 | D | | | | | | | |
| | 21.00 | SPT (39) | 21.00 | D | | 15.40 | | 21.20 | | | |
| | | | 21.00 | D | 1.30 | | | | CLAY | Very stiff light grey brown and orange brown mottled fine sandy silty CLAY with occasional weakly cemented orange brown sandstone pockets. | |
| | | | 21.50 | D | | | | | | | |
| | | | 21.50 | D | | | | | | | |
| | 22.50 | SPT (31) | 22.00 | D | | 14.10 | | 22.50 | | | |
| | | | 22.50 | D | | | | | | End of Borehole | |
| | | | 22.50 | D | | | | | | | |

| Hole Diameters | | | Water Strikes | | | | | | Chiselling Time | | | General Remarks |
|----------------|-----------|-------------|---------------|-----------|------------|-------------|-------------|------------|-----------------|--------|------------|-----------------|
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | Time (hrs) | |
| 12.00 | | 200 | 22/12/04 | Dry | | | | | 0.90 | 5.00 | 3.5 | |
| 22.50 | | 200 | | | | | | | 18.00 | 22.50 | 4.5 | |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH6

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|--------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 15/12/2004 | End date | |
| Ground level | 36.69 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 19.00 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | | |
|-----------------|---------|--|---------|------|-----------|-------|--------|-------|---------------------|--|--|
| | Depth | SPT(N value) CPT(N value) U(blowe) | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | |
| | | | 0.50 | D | 1.00 | | | | FILL | Medium dense pale brown sandy clay FILL with fine-coarse brick, concrete, glass, ash, clinker, ragstone, plastic and black organic pockets. | |
| | | | 1.00 | D | | 35.69 | | 1.00 | FILL | Medium dense pale brown sandy clay FILL with fine to cobble sized ragstone gravel, brick, concrete, ash, clinker, plastic and glass. | |
| | 1.50 | CPT (19) | 1.50 | B | | | | | | | |
| | | | 2.00 | D | | | | | | | |
| | | | 2.50 | D | 3.10 | | | | | | |
| | 3.00 | CPT (10) | 3.00 | B | | | | | | From 1m-1.9m slight musty odour | |
| | | | 3.50 | D | | | | | | | |
| | | | 4.00 | D | | 32.59 | | 4.10 | FILL | At 2.0m tending increasingly clayey. Occurance of brick and concrete decreasing with depth. | |
| | 4.50 | CPT (11) | 4.50 | B | | | | | | At 2.5m tending to a dark brown sandy clay and becoming more sandy with depth. | |
| | | | 5.50 | D | | | | | | | |
| | 6.00 | CPT (11) | 6.00 | B | | | | | | Medium dense yellow brown and green grey very sandy clay FILL with much fine to coarse ragstone gravel. Occasional brick and concrete. Tending increasingly clayey with depth. | |
| | | | 6.50 | D | | | | | | | |
| | | | 7.00 | D | 6.20 | | | | | | |
| | 7.50 | CPT (28) | 7.50 | B | | | | | | Sample at 6.5m recovered very wet. | |
| | | | 8.00 | D | | | | | | | |
| | | | 8.50 | D | | | | | | | |
| | 9.00 | CPT (12) | 9.00 | B | | | | | | At 9m much brick, concrete, clinker, and ash. | |
| | | | 9.50 | D | | | | | | | |
| | | | 10.00 | D | | 26.39 | | 10.30 | FILL | At 10m much brick, ash and clinker fragments. | |
| | 10.50 | CPT (17) | 10.50 | B | | | | | | Medium dense green grey and pale brown sandy clay FILL with fine to cobble sized ragstone gravel. | |
| | | | 11.00 | D | | | | | | | |
| | | | 11.50 | D | | | | | | | |
| | 12.00 | CPT (15) | 12.00 | B | | | | | | At 11.5m becoming a soft green grey sandy clay with white grey silty sandy partings. | |
| | | | 12.50 | D | | | | | | | |
| | | | 13.00 | D | 5.40 | | | | | | |
| | 13.50 | CPT (23) | 13.50 | B | | | | | | | |
| | | | 14.00 | D | | | | | | | |
| | | | 14.50 | D | | | | | | | |
| | 15.00 | CPT (25) | 15.00 | B | | | | | | | |
| | | | 16.00 | D | 0.70 | 20.99 | | 15.70 | FILL | Medium dense pale brown very clayey sand FILL with medium to coarse ragstone gravel. | |
| | 16.50 | SPT (19) | 16.50 | D | 0.50 | 20.29 | | 16.40 | FILL | Medium dense dark grey very silty sandy clay FILL with rare medium ragstone gravel. | |
| | | | 17.20 | B | 0.30 | 19.79 | | 16.90 | FILL | Medium dense dark grey very silty sandy clay FILL with rare medium ragstone gravel. | |
| | | | 18.00 | D | 1.80 | 17.69 | | 17.20 | CLAY | Dense dark grey very silty sandy clay FILL with much fine to coarse ragstone gravel. | |
| | 18.50 | U (52) | 18.50 | D | | | | | | Stiff to very stiff plastic grey brown fissured, thinly laminated silty sandy CLAY with frequent off white and grey silty sandy partings and occasional fine grey veining. | |
| | | | 18.50 | U | | | | 19.00 | | | |
| | | | 19.00 | D | | | | | | End of Borehole | |

| Hole Diameters | | | Water Strikes | | | | | | Chiselling Time | | | General Remarks |
|----------------|-----------|-------------|---------------|-----------|------------|-------------|-------------|------------|-----------------|--------|------------|--|
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | Time (hrs) | |
| 16.50 | | 200 | 15/12/04 | 15.70 | | | | | 10.20 | 11.00 | 1 | |
| 19.00 | | 200 | | | | | | | | | | Installation: GL to 3m plain, 3 to 6m slotted with pea shingle surround. Bentonite seal GL-1m and 6 to 5m. Finish with gas tap and stop cock cover. |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH7

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|--------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 19/12/2004 | End date | |
| Ground level | 32.23 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 9.00 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | | | |
|-----------------|-----------|--|---------------|-----------|------------|-------------|-------------|-----------------|--|--------|-----------------|--|
| | Depth | SPT(N value) CPT(M value) L(Blows) | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | | |
| | | | 0.50 | D | | | | | <p>FILL</p> <p>Loose to medium dense medium brown sandy clay and ragstone gravel FILL with much brick, ash, clinker, glass, plastic, rubber, black organic pockets, fragments of wood and decomposing organic matter.</p> <p>Tending increasingly sandy with depth.</p> <p>At 4m much cobble sized ragstone gravel.</p> <p>FILL</p> <p>Dense brown and black moist silty sandy clay and ragstone gravel FILL with brick, black organic decomposing matter, and orange / yellow brown clayey pockets. Organic odour.</p> <p>FILL</p> <p>Loose dark brown and black moist silty sandy clay FILL with fine to coarse ragstone gravel and fine brick. Strong diesel/hydrocarbon odour.</p> <p>FILL</p> <p>Sample at 6m very strong diesel/hydrocarbon odour.</p> <p>CLAY</p> <p>At 6.5m dark grey black odouress patches.</p> <p>At 7m large cobble sized ragstone gravels.</p> <p>Loose grey brown sandy clay FILL with brick, sandstone, clinker, ash, ironstained cemented sandy partings and frequent grey black speckled organic odouress pockets.</p> <p>Stiff to very stiff fissured orange brown and dark red brown sandy CLAY with off white and grey veining, and ironstained cemented sandy pockets.</p> <p>End of Borehole</p> | | | |
| | 1.50 | CPT (9) | 1.00 | D | | | | | | | | |
| | | | 1.50 | B | | | | | | | | |
| | | | 2.50 | D | 4.50 | | | | | | | |
| | 3.00 | CPT (27) | 3.00 | B | | | | | | | | |
| | | | 3.50 | D | | | | | | | | |
| | | | 4.00 | D | | | | | | | | |
| | 4.50 | CPT (38) | 4.50 | B | | 27.73 | | | | 4.50 | | |
| | | | 5.50 | D | 1.10 | | | | | | | |
| | 6.00 | CPT (17) | 6.00 | D | | 26.63 | | | | 5.60 | | |
| | | | 6.00 | B | 1.80 | | | | | | | |
| | | | 6.50 | D | | | | | | | | |
| | | | 7.00 | D | | | | | | | | |
| | 7.50 | CPT (4) | 7.50 | B | | 24.83 | | | | 7.40 | | |
| | | | 8.00 | D | 0.50 | | | | | 7.90 | | |
| | | 8.50 | D | 1.10 | | | | | | | | |
| 9.00 | SPT (27) | 9.00 | D | | 23.23 | | 9.00 | | | | | |
| Hole Diameters | | | Water Strikes | | | | | Chiselling Time | | | General Remarks | |
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | | Time (hrs) |
| 7.50 | | 200 | 19/12/04 | Dry | | | | | 4.60 | 5.60 | | 1 |
| 9.00 | | 200 | | | | | | | | | | <p>Water added from GL to 9m to aid in drilling.</p> <p>Installation: GL to 6m plain, 6 to 9m slotted with pea shingle surround. Bentonite seal GL-1m and 6 to 5m.</p> <p>Finish with gas tap and stop cock cover.</p> |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH8

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|------------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 18/12/2004 | End date | 20/12/2004 |
| Ground level | 34.41 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 11.70 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | | | |
|---|-----------|---|---------------|-----------|------------|-------------|-------------|------------|---------------------|--|------------|--|
| | Depth | SPT (N value) CPT (t value) U (blows) | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | | |
| | 1.50 | CPT (5) | 0.50 | D | 1.80 | 32.61 | | 1.80 | FILL | Loose moist dark brown silty sandy clay FILL with much fine to medium brick, flint, clinker, plastic, ceramics, glass, ragstone, concrete, metal wire, bits of wood, fine roots, and black decomposing organic odouress pockets. | | |
| | | | 1.00 | D | | | | | FILL | Loose decomposing paper FILL in an odouress black sandy matrix. | | |
| | 3.00 | SPT (7) | 1.50 | D | 1.30 | 31.31 | | 3.10 | FILL | Loose green grey and grey brown silty sandy clay FILL with much plastic, paper, brick, clinker, glass, metal wire, black decomposing patches, plastic bottle caps, wood, aluminium, metal staples and sandy black ash. | | |
| | | | 2.00 | D | | | | | | At 4m frequent fine to medium ragstone gravel. | | |
| | 4.50 | SPT (9) | 2.50 | D | 1.40 | 29.91 | | 4.50 | FILL | Medium dense FILL comprising of paper, plastic, metal wire, brick, flint, glass, ceramics, wood, black sandy ash and occasional ragstone in a dark brown to black sandy clayey matrix. | | |
| | | | 3.00 | D | | | | | | At 5.5m much black ash. | | |
| | 6.00 | SPT (15) | 3.50 | D | 1.50 | 28.41 | | 6.00 | FILL | Medium dense to dense FILL comprised of black sandy ash with paper, plastic, metal wire, brick, ceramics, flints, clinker, wood and occasional ragstone. | | |
| | | | 4.00 | D | | | | | | At 6.5-7m much metal / wire | | |
| | 7.50 | SPT (50 for 75mm) | 4.50 | D | 0.70 | 26.91 | | 7.50 | FILL | Medium dense medium to cobble sized concrete gravel FILL in a black clayey sandy ash matrix with much plastic, metal wire, brick, glass and wood pieces. | | |
| | | | 5.00 | D | | | | | | Sample at 8m recovered very wet. | | |
| | 9.00 | CPT (11) | 5.50 | D | 2.60 | 26.21 | | 8.20 | FILL | Medium dense dark brown clayey FILL comprised of decomposing paper, plastic, metal wire, glass, ceramics, brick, flint, wood, concrete, in a silty sandy clayey matrix. Organic odour. | | |
| | | | 6.00 | D | | | | | | Medium dense dark grey green brown black clayey FILL comprised of cobble sized concrete, plastic, brick, metal wire. | | |
| | 10.50 | CPT (18) | 6.50 | D | 0.20 | 23.61 | | 10.80 | FILL | Dense concrete FILL. Refusal at 11.7m. | | |
| | | | 7.00 | D | | | | | | At 11.5m cobble sized concrete and brick gravel. | | |
| | 11.00 | | 7.50 | D | 0.70 | 23.41 | | 11.00 | FILL | Sample at 11.7m recovered as a black sandy fill with much brick and ash. | | |
| | | | 8.00 | D | | | | | | End of Borehole | | |
| | 11.50 | | 8.50 | D | | 22.71 | | 11.70 | FILL | | | |
| | | | 9.00 | D | | | | | | | | |
| Hole Diameters | | | Water Strikes | | | | | | Chiselling Time | | | General Remarks |
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | Time (hrs) | |
| 11.50 | | 200 | 20/12/04 | Dry | | | | | 7.50 | 8.20 | 0.35 | |
| Installation: GL to 8.7m plain, 8.7 to 11.7m slotted with pea shingle surround. Bentonite seal GL-1m and 8.7 to 6.7m. | | | | | | | | | | | | Finish with gas tap and stop cock cover. |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH9

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|------------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 20/12/2004 | End date | 21/12/2004 |
| Ground level | 37.57 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 11.10 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | | |
|-----------------|-------------------|--|---------|------|-----------|-------|--------|-------|---------------------|--|--|
| | Depth | SPT(N value) CPT(N value) U(blowe) | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | |
| | 1.50 | CPT (18) | 0.50 | D | 0.80 | 36.77 | | 0.80 | FILL | Medium dense dark brown silty FILL comprised of plastic, metal wire, brick, glass, occasional fine to medium ragstone gravel, clinker, decomposing wood and cloth in a silty sandy matrix. | |
| | | | 1.00 | D | | | | | FILL | | |
| | 3.00 | CPT (12) | 1.50 | D | 8.20 | | | | | | Loose to medium dense orange and green brown fine to coarse ragstone gravelly FILL with much plastic, clinker and brick. |
| | | | 2.00 | D | | | | | | | |
| | | | 2.50 | D | | | | | | | |
| | | | 3.00 | D | | | | | | | |
| | 4.50 | CPT (10) | 3.50 | D | | | | | | | |
| | | | 4.00 | D | | | | | | | |
| | | | 4.50 | D | | | | | | | |
| | 6.00 | SPT (11) | 5.00 | D | | | | | | | |
| | | | 5.50 | D | | | | | | | |
| | | | 6.00 | D | | | | | | | |
| | | | 6.50 | D | | | | | | | |
| | 7.50 | SPT (1) | 7.00 | D | | | | | | | |
| 7.50 | | | D | | | | | | | | |
| 8.00 | | | D | | | | | | | | |
| 9.00 | CPT (29) | 8.50 | D | | | | | | | | |
| | | 9.00 | D | | | | | | | | |
| | | 9.50 | D | | | | | | | | |
| 10.50 | CPT (18) | 10.00 | D | 2.10 | 28.57 | | | 9.00 | FILL | Dense pale brown FILL comprised of weak to very hard fine to cobble sized ragstone gravel in a silty sandy clayey matrix. Refusal at 11.1m on very dense rock. | |
| | | 10.50 | D | | | | | | | | |
| 11.10 | CPT (50 for 75mm) | 11.00 | D | | 26.47 | | | 11.10 | End of Borehole | | |

| Hole Diameters | | | Water Strikes | | | | | | Chiselling Time | | | General Remarks |
|----------------|-----------|-------------|---------------|-----------|------------|-------------|-------------|------------|-----------------|--------|------------|--|
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | Time (hrs) | |
| 1.50 | | 200 | 21/12/04 | Dry | | | | | 10.80 | 11.10 | 0.45 | |
| 11.10 | | 200 | | | | | | | | | | Finish with gas tap and stop cock cover. |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH10

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|--------|
| National Grid Reference | | TQ 752 54Z | |
| Start date | 23/12/2004 | End date | |
| Ground level | 45.38 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 13.70 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | | | |
|-----------------|-------------------|---|---------------|-----------|------------|-------------|-------------|---|---|---|---|------------|
| | Depth | SPT (N value) CPT (N value) U/blows | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | | |
| | 1.50 | SPT (32) | 0.50 | D | 0.80 | | | 0.80 | FILL | Dense dark brown and black very sandy clay FILL comprised of fine to coarse brick, concrete, clinker and tarmac. Occasional fine roots. | | |
| | | | 1.00 | D | 0.60 | 44.58 | | 1.40 | FILL | | | |
| | 1.50 | D | 0.40 | 43.98 | 1.80 | FILL | | Dense dark brown FILL comprised of fine to cobble sized brick, concrete, ragstone gravel, clinker, tarmac, organic partings in a silty sandy clayey matrix. | | | | |
| | 2.00 | D | 0.70 | 43.58 | 2.50 | FILL | | | | | | |
| | 2.50 | D | | 42.88 | | FILL | | | | | | |
| | 3.00 | CPT (10) | 3.00 | D | 3.50 | | | | 6.00 | FILL | Dense dark brown clayey sandy FILL comprised of fine to coarse brick, concrete, ash and clinker. | |
| | | | 3.50 | D | | | | | | | | |
| | | | 4.00 | D | | | | | | | | |
| | 4.50 | SPT (9) | 4.50 | D | 39.38 | | | | 6.00 | FILL | Medium dense grey orange brown fissured sandy clay FILL with frequent fine to coarse concrete, brick, clinker, tarmac, organic odours partings, grey infilled veins, decomposing organic material and ironstaining. | |
| | | | 5.00 | D | | | | | | | | |
| | | | 5.50 | B | | | | | | | | |
| | 6.00 | CPT (13) | 6.00 | D | 7.70 | | | | 6.00 | FILL | Medium dense brown very sandy clayey FILL with much fine to cobble sized concrete, brick, tiles, blacktop, clinker, ash, wood and occasional fine roots. | |
| | | | 6.50 | B | | | | | | | | |
| | | | 7.00 | D | | | | | | | | |
| | 7.50 | SPT (11) | 7.50 | D | 7.70 | | | | 6.00 | FILL | From 4.9m tending to a pale brown silty clayey with black organic partings / speckling. | |
| | | | 8.00 | B | | | | | | | | |
| | | | 8.50 | B | | | | | | | | |
| | 9.00 | SPT (10) | 9.00 | B | 7.70 | | | | 6.00 | FILL | Medium dense green grey, very sandy clay FILL with frequent fine to coarse ragstone gravel, brick, concrete, clinker, ash, and decomposing bits of wood. Refusal at 13.7m. | |
| 9.50 | | | B | | | | | | | | | |
| 10.00 | | | B | | | | | | | | | |
| 10.50 | SPT (9) | 10.50 | B | 7.70 | | | 6.00 | FILL | At 6.5m fine sandy and silty partings. | | | |
| | | 11.00 | D | | | | | | | | | |
| | | 11.50 | D | | | | | | | | | |
| 12.00 | SPT (11) | 12.50 | D | 31.68 | | | 13.70 | FILL | From 9m less brick, concrete etc increasing ragstone content. No rubble from 10m. | | | |
| | | 13.00 | B | | | | | | | | | |
| | | 13.50 | D | | | | | | | | | |
| 13.50 | SPT (66 for 75mm) | 13.50 | D | 31.68 | | | 13.70 | FILL | At 11.5m frequent cobble size ragstone. tending increasingly sandy with depth with frequent very clayey pockets / horizons. | | | |
| | | 13.70 | D | | | | | | | | | |
| | | | | | | | | | | End of Borehole | | |
| Hole Diameters | | | Water Strikes | | | | | Chiselling Time | | | General Remarks | |
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | | Time (hrs) |
| 4.50 | | 200 | 23/12/04 | Dry | | | | | 1.00 | 1.40 | | 0.3 |
| 13.70 | | 200 | | | | | | | 2.70 | 3.40 | 0.2 | |
| | | | | | | | | | 13.50 | 13.70 | 0.3 | |
| | | | | | | | | | | | Installation: GL to 7.7m plain, 7.7 to 13.7m slotted with pea shingle surround. Bentonite seal GL-1m and 7.7 to 6.7m. Finish with gas tap and stop cock cover. | |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH13

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

| | | | |
|-------------------------|------------|---------------|--------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 04/01/2005 | End date | |
| Ground level | 43.36 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 14.10 | Page | 1 of 1 |

| Piezometer or Monitoring well | Testing | | Samples | | Strata | | | | | | |
|-------------------------------|---------|---|---------|------|-----------|-------|--------|-------|---------------------|---|--|
| | Depth | SPT(N value) CPT(N value) t/blows | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | |
| | | | 0.50 | D | 1.70 | | | | FILL | Dense grey green and brown sandy clay FILL comprised of fine to coarse ragstone gravel, brick, concrete, plastic, paper, fine roots, clinker, chalk and occasional metal wire. Musty odour. | |
| | 1.50 | CPT (36 for 150mm) | 1.00 | D | | 41.66 | | 1.70 | FILL | Loose grey and mauve sandy very silty clayey ash FILL with fine to cobble sized brick, concrete, clinker, wood, ash, glass and black speckling. | |
| | | | 2.00 | D | 1.40 | | | | FILL | At 2.0m much wool fibres. | |
| | 3.00 | CPT (4) | 2.50 | D | | | | 3.10 | FILL | Loose mauve slightly sandy very silty clayey ash FILL with brick, concrete, clinker, ragstone and black speckling. Much domestic refuse. | |
| | | | 3.00 | B | 0.30 | 40.26 | | 3.40 | FILL | Loose mauve very silty clayey ash FILL with frequent fine to coarse brick, concrete, ragstone, black speckling and occasional glass. | |
| | | | 3.50 | D | 0.60 | 39.96 | | 4.00 | FILL | Loose mauve very silty clayey ash FILL with much black speckling, cemented lumps, frequent clinker, and occasional brick, concrete, flint and ragstone and green yellow staining. | |
| | 4.50 | CPT (9) | 4.00 | D | | | | | | | |
| | | | 4.50 | B | | | | | | | |
| | | | 5.00 | D | | | | | | | |
| | 6.00 | CPT (8) | 5.50 | D | | | | | | | |
| | | | 6.00 | B | | | | | | | |
| | | | | | 5.90 | | | | | | |
| | 7.50 | SPT (0) | 7.50 | D | | | | | | | |
| | | | 8.50 | D | | | | | | | |
| | 9.00 | SPT (22) | 9.00 | B | | | | | | | |
| | | | 9.50 | D | | | | | | | |
| | | | 10.00 | D | | 33.46 | | 9.90 | FILL | FILL comprised of mauve very silty clayey ash matrix with clinker and occasional brick and concrete. | |
| | 10.50 | SPT (13) | 10.50 | D | 1.60 | | | | | | |
| | | | 10.50 | B | | | | | | | |
| | | | 11.00 | D | | 31.86 | | 11.50 | FILL | At 11m frequent medium to coarse concrete and brick and yellow brown staining. | |
| | 12.00 | CPT (42) | 11.50 | D | 0.80 | 31.06 | | 12.30 | FILL | Medium dense brown and green grey fine sandy clay FILL with brick, concrete, ragstone, clinker and ash. | |
| | | | 12.00 | B | | | | | | | |
| | | | 12.50 | D | | | | | | | |
| | 13.50 | CPT (54 for 225mm) | 13.00 | D | 1.60 | | | 13.90 | FILL | Very dense brown and grey green very sandy clay FILL with fine to coarse ragstone gravel, brick, concrete, clinker and black speckling. | |
| | | | 13.50 | B | 0.20 | 29.46 | | 14.10 | FILL | Very dense grey green very sandy clay FILL with much hard bits of ragstone and frequent bits of clinker, flint, brick and glass. Refusal at 14.1m on very dense rock. | |
| | | | | | | 29.26 | | | | End of Borehole | |

| Hole Diameters | | | Water Strikes | | | | | | Chiselling Time | | | General Remarks |
|----------------|-----------|-------------|---------------|-----------|------------|-------------|-------------|------------|-----------------|--------|------------|---|
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | Time (hrs) | |
| 12.00 | | 200 | 04/01/05 | Dry | | | | | 13.90 | 14.10 | 0.5 | |
| 14.00 | | 200 | | | | | | | | | | Installation: GL to 2m plain, 2 to 5m slotted with pea shingle surround. Bentonite seal GL-1m Finish with gas tap and stop cock cover. |



SOUTHERN TESTING

Geotechnical Consultancy, Site Investigation & Environmental Survey

Job No: J8281

Hole No: BH14

Site : Land off Farleigh Hill, Tovil

Client : Barratt South London Ltd

Drilling Method : Shell and Auger (200mm)

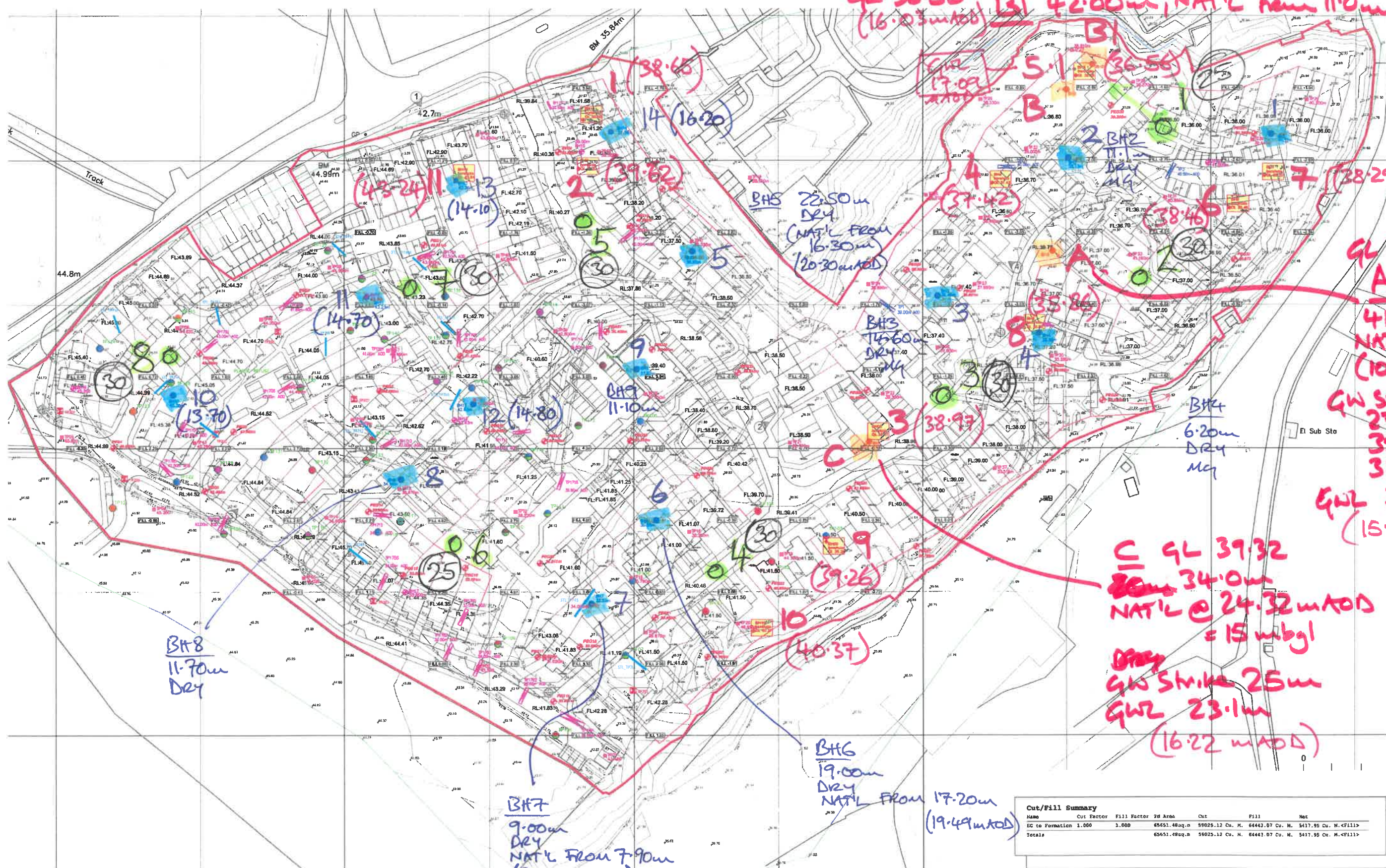
| | | | |
|-------------------------|------------|---------------|--------|
| National Grid Reference | | TQ 752 542 | |
| Start date | 21/12/2004 | End date | |
| Ground level | 37.38 | Backfill date | |
| Logged by | NA/JW | Engineer | DS |
| Final depth | 16.20 | Page | 1 of 1 |

| Monitoring well | Testing | | Samples | | Strata | | | | | | |
|-----------------|-------------------|---|---------|------|-----------|-------|--------|-------|---------------------|--|--|
| | Depth | SPT(N value) CPT(N value) (blows) | Depth | Type | Thickness | Level | Legend | Depth | Strata Descriptions | | |
| | 1.50 | CPT (20) | 0.50 | D | 2.60 | 34.78 | | 2.60 | FILL | Medium dense black to dark grey very sandy clay FILL with fine to coarse and cobble sized ragstone gravels. Occasional fragments of rubber, clinker, ash, and brick. | |
| | | | 1.00 | D | | | | | | | |
| | 3.00 | CPT (5) | 1.50 | B | 1.20 | 33.58 | | 3.80 | FILL | Medium dense to loose dark grey to light grey speckled black fine very sandy very gravelly clay FILL of weak to moderately weak fine to cobble sized ragstone gravel, black clay pockets with scattered brick and ash fragments. | |
| | | | 2.00 | D | | | | | | | |
| | | | 2.50 | D | | | | | | | |
| | 4.50 | CPT (11) | 3.00 | B | 2.70 | 30.88 | | 6.50 | FILL | Loose black, grey and orange brown silty clay FILL with metal, plastic, fine to cobble sized ragstone gravel. | |
| | | | 3.50 | D | | | | | | | |
| | | | 4.00 | D | | | | | | | |
| | 6.00 | CPT (14) | 4.50 | B | 2.80 | 28.08 | | 9.30 | FILL | Loose black sandy ashy FILL with clinker, brick, plastic, large metal pieces, soft grey clay pockets. Becoming more clayey with depth. | |
| | | | 5.00 | D | | | | | | | |
| | | | 5.50 | D | | | | | | | |
| | 7.50 | CPT (3) | 6.00 | B | 1.70 | 26.38 | | 11.00 | FILL | Light grey yellow speckled black reworked fine to cobble sized ragstone gravel FILL in a clayey fine grained sand matrix with dark yellow and orange clay pockets and black clay patches. | |
| | | | 6.50 | D | | | | | | | |
| | | | 7.00 | D | | | | | | | |
| | 9.00 | CPT (9) | 7.50 | B | 5.10 | 21.28 | | 16.10 | FILL | Loose light grey and yellow brown speckled black fine to cobble sized weak to moderately strong ragstone GRAVEL in a clayey sand matrix. | |
| | | | 8.00 | D | | | | | | | |
| | | | 8.50 | D | | | | | | | |
| | 10.50 | CPT (25) | 9.00 | D | 0.10 | 21.18 | | 16.20 | FILL | Recovered as a pale brown and green grey strong to very strong ragstone cobbles. Refusal at 16.2m on very dense rock. | |
| | | | 9.50 | D | | | | | | | |
| | | | 10.00 | D | | | | | | | |
| 12.00 | CPT (7) | 10.50 | B | | | | | | | | |
| | | 11.00 | D | | | | | | | | |
| | | 11.50 | D | | | | | | | | |
| 13.50 | CPT (25) | 12.00 | B | | | | | | | | |
| | | 12.50 | D | | | | | | | | |
| | | 13.00 | D | | | | | | | | |
| 15.00 | CPT (43) | 13.50 | B | | | | | | | | |
| | | 14.00 | D | | | | | | | | |
| | | 14.50 | D | | | | | | | | |
| 16.50 | CPT (50 for 75mm) | 15.00 | B | | | | | | | | |
| | | 15.50 | D | | | | | | | | |
| | | 16.00 | D | | | | | | | | |
| | | | 16.20 | D | | | | | FILL | End of Borehole | |

| Hole Diameters | | | Water Strikes | | | | | | Chiselling Time | | | General Remarks |
|----------------|-----------|-------------|---------------|-----------|------------|-------------|-------------|------------|-----------------|--------|------------|-----------------|
| Depth (m) | Hole (mm) | Casing (mm) | Date | Water (m) | Casing (m) | Time (mins) | Rose to (m) | Sealed (m) | From (m) | To (m) | Time (hrs) | |
| 9.00 | | 200 | 21/12/04 | Dry | | | | | 16.10 | 16.20 | 0.5 | |

APPENDIX F

Contamination Results



GL 38.66 (16.03 m AOD) B 21.00m (term in MG) DRY.

GL 38.53 (16.03 m AOD) B1 42.00m, NAT'L from 11.0m

Strike @ 35u
GL 22.5m

BH1
15.30m
DRY.
MG

GL 37.81
A

41.00m
NAT'L @ 27
(10.81 m AOD)

GW Striked
27.00
35.00
38.00

GL 22.5m
(15.31 m AOD)

C GL 39.32
20m 34.0m
NAT'L @ 24.32 m AOD
= 15 mbgl

DRY
GW Strike 25m
GL 23.1m
(16.22 m AOD)

BH6
19.00m
DRY
NAT'L FROM 17.20m
(19.49 m AOD)

BH7
9.00m
DRY
NAT'L FROM 7.90m
(24.33 m AOD)

BH8
11.70m
DRY

1-14
STL BH'S 2004
(DEPTH + DEPTH
TO NAT'L IF
ENCOUNTERED)

GEOTECHNICAL BH WITH
DETAILS OF DEPTH TO
NAT'L, GW (STRIKES +
STANDING)

3 RECENTLY
DIPPED BH
WITH EXISTING GL
(38.97)

REF 8
PROPOSED BH'S (STA W SPTS)
TO REF.
ROTARY FOLLOW-ON'S TO PREDICTED
GWL + 5m

| Name | Cut Factor | Fill Factor | 7d Area | Cut | Fill | Net |
|-----------------------|------------|---------------------|------------------------|------------------------|-----------------------|--------|
| EC to Formation 1.000 | 1.000 | 65651.48sq.m | 59025.12 Cu. M. | 64443.07 Cu. M. | 5417.95 Cu. M. | <F111> |
| Totals | | 65651.48sq.m | 59025.12 Cu. M. | 64443.07 Cu. M. | 5417.95 Cu. M. | <F111> |