

CATHEDRAL BUSINESS PARK

SITE B - SELF STORAGE

Surface Water Drainage

Prepared on Behalf of Seaward (Bognor Road) Limited

D1993/RMA4/DS1.0

26 March 2024



DOCUMENT CONTROL

| Project: | Cathedral | Business | Park |
|----------|-----------|-----------------|------|
| | | | |

Site B - Self Storage

Document: Surface Water Drainage

Client: Seaward (Bognor Road) Limited

Reference: D1993/RMA4/DS1.0

Document Checking:

Author: LF **Date**: 25/03/2024

Checked by: MA Date: 25/03/2024

Approved by: LF Date: 25/03/2024

Sta tus:

| Issue | Date | Sta tus | Issued by |
|-------|------------|---------|-----------|
| 1.1 | 25/03/2024 | FINAL | LF |

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| Surface Water Drainage Design Summary and Calculations | | | | | | |
|--|-------------------------------|--|--|--|--|--|
| Project Name: Cathedral Business Park | | | | | | |
| Project Number: | D1993 | | | | | |
| Client: | Seaward (Bognor Road) Limited | | | | | |
| Prepared by and Date: LF 25/03/2024 | | | | | | |

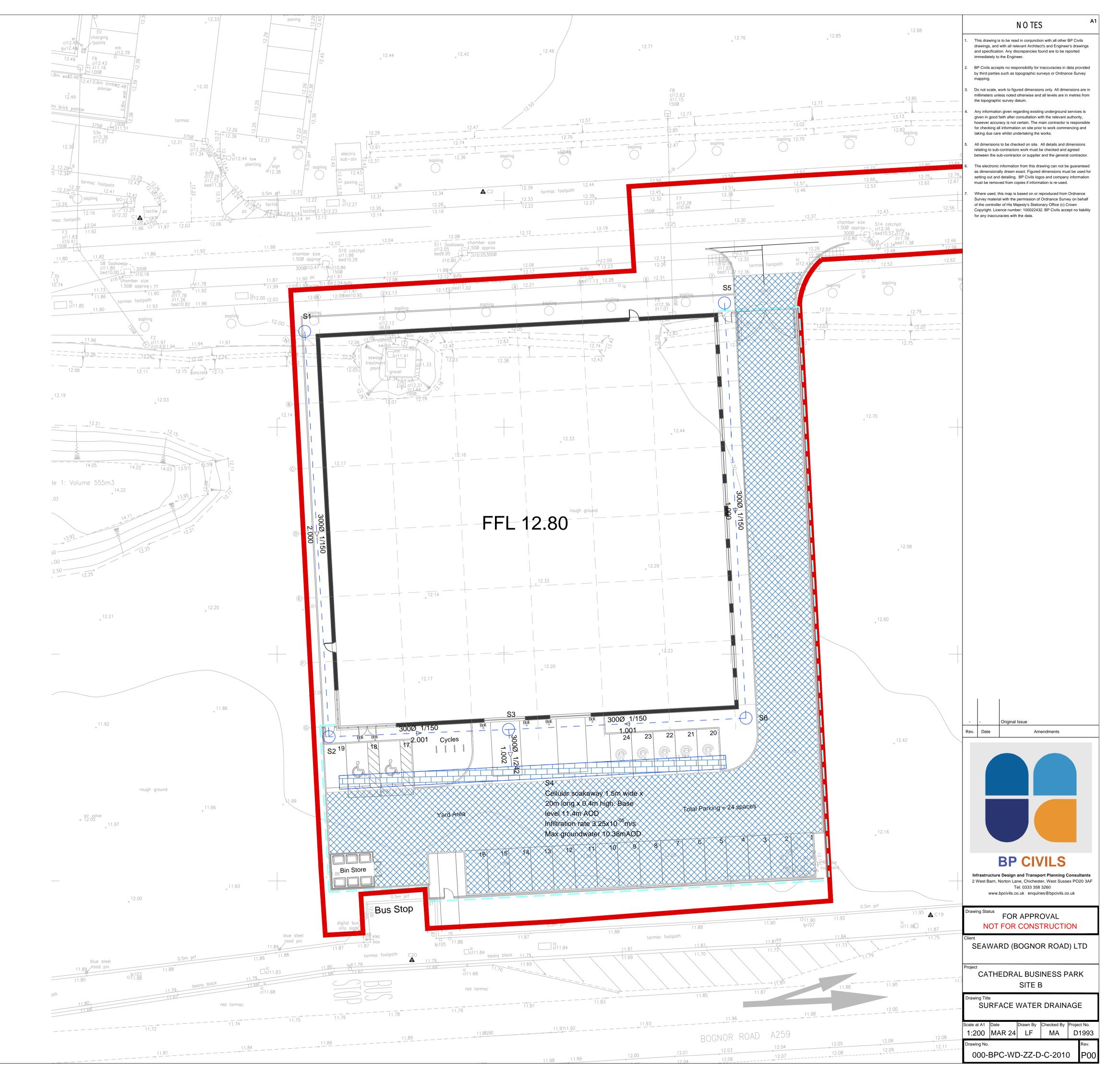


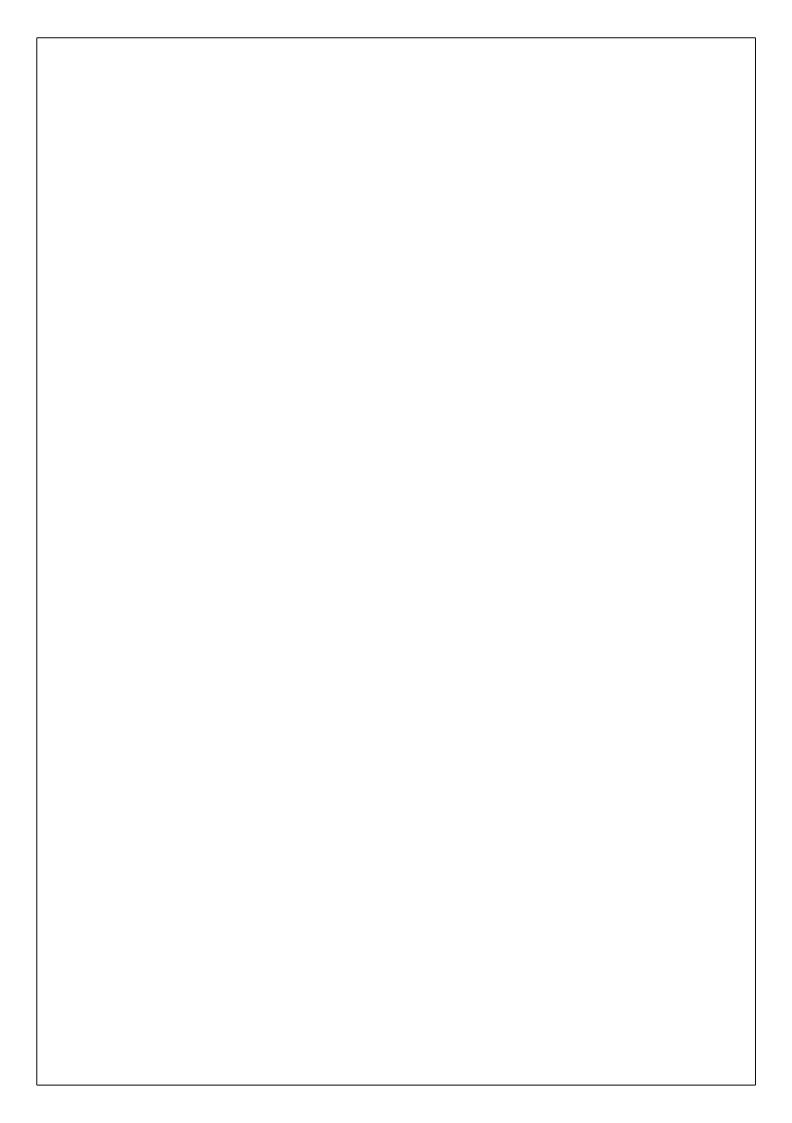
| Site Address: | Land off Bognor Road, Chichester –Plot B, Self Storage |
|---|---|
| Local Authority: | Chichester District Council |
| Lead Local Flood Authority: | West Sussex County Council |
| | |
| Site Area: | Plot B 0.61Ha |
| Geology: | Geotechnical investigation found Silt, Gravel, Sand & Chalk up to 5.0mbgl across the site. |
| Ground Water Depth: | Groundwater monitoring found levels at 8.79-11.15mAOD. Max 9.41 for this area. |
| Soil Infiltration rate: | Design infiltration rates varied across the site between 3.25 x 10s and 1.45 x 10s m/s. |
| Nearby watercourse: | None close by. |
| Nearby surface water sewer: | None |
| Proposed method of disposal and reason: | Infiltration. This is the most suitable method. |
| Design storms considered: | 1:100 year. FEH22 |
| Climate change: | 45% |
| | |
| Proposed Catchment Area: | 0.175Ha roof, 0.11Ha, externals. |
| Proposed discharge Rate: | N/A |
| Flow control method | N/A |
| Volume of Storage Provided and method: | Permeable paving and cellular soakaways. 357.6m ³ |
| | |
| Offsite works: | None |
| | |
| | The surface water drainage design follows the strategy set out in the Flood Risk Assessment prepared by GTA Civils and the subsequent addendum prepared by BP Civils, submitted under outline planning application. |
| Notes: | The proposal includes permeable paving to the car parking areas and cellular soakaways for the building roof. Ground water was found at a maximum level of 9.41mAOD, infiltration will take place above this level with an unsaturated zone of at least 1m. |
| | Building floor level set to 12.80 in line with the FRA and addendum. |
| | Infiltration rate used from test pit SA401 3.25x10-5m/s |

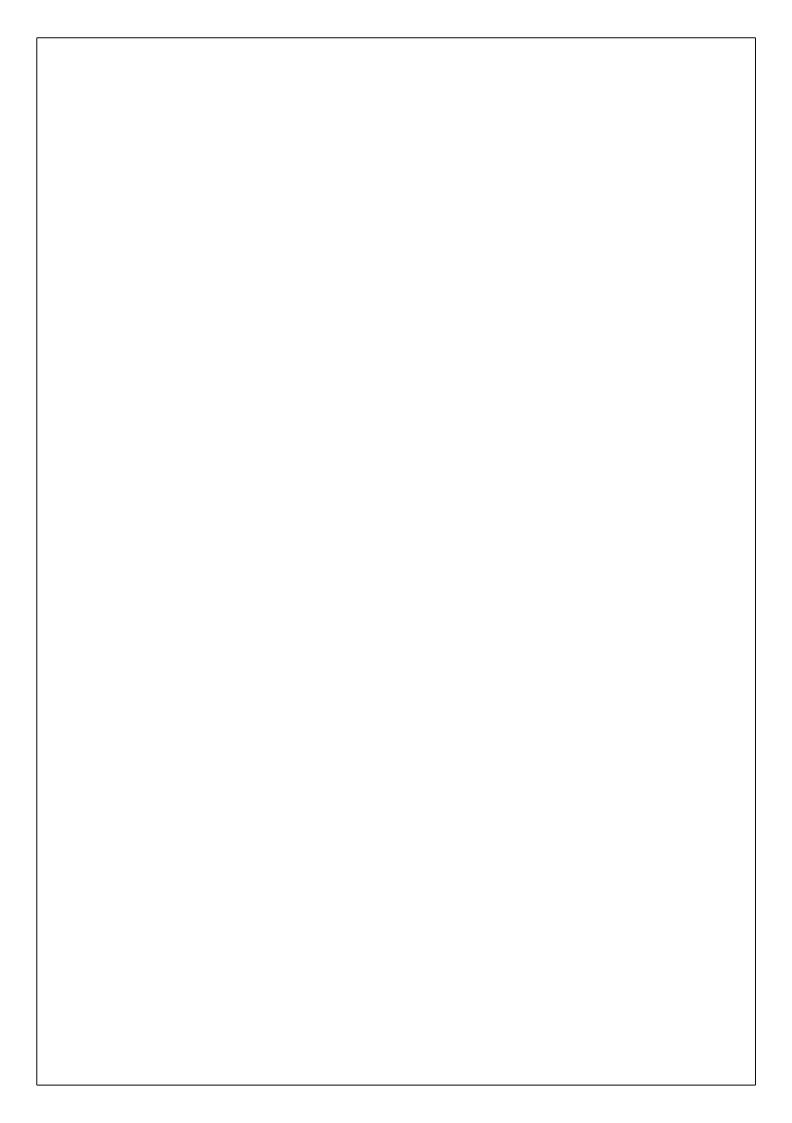


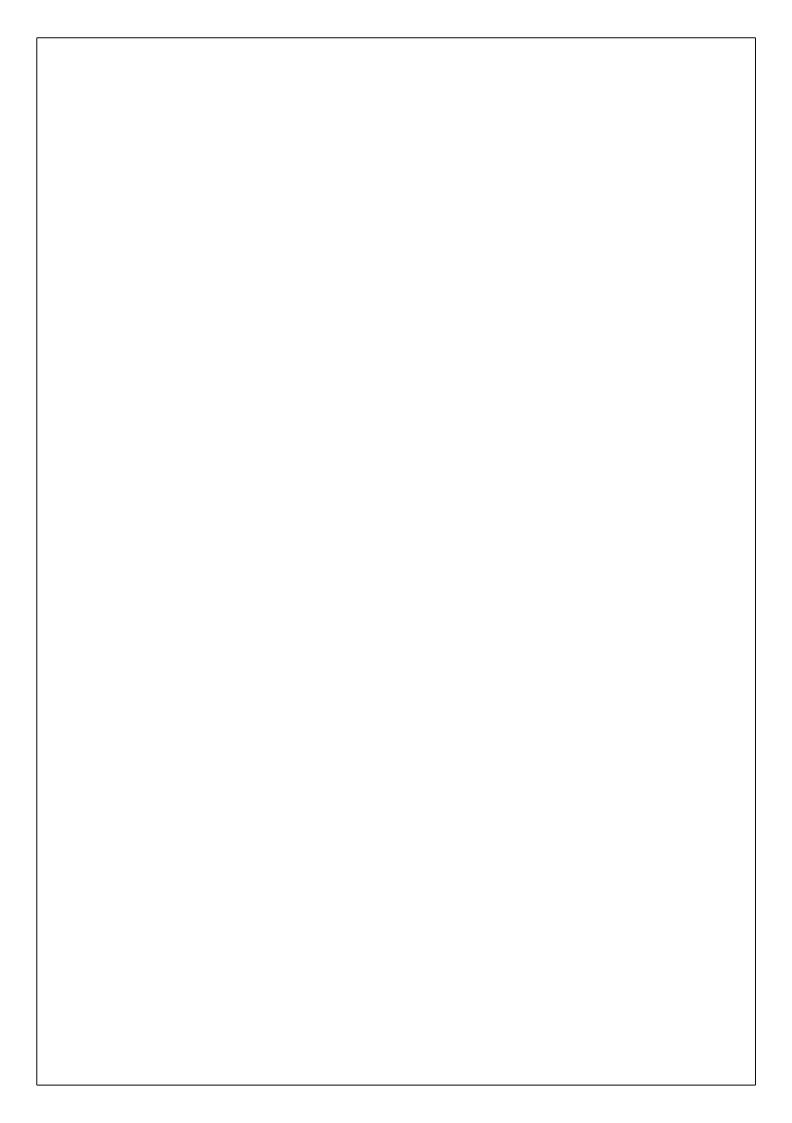
| PHASE | PHASE: 0 | | | | | | | | |
|-----------|-----------------------------|-----------------|-----------------------|------------------------|---------------------------|----------------|-----------------|--|--|
| MH No. | MANHOLE DIAMETER (mm) | MANHOLE TYPE | COVER LEVEL (m) | INVERT LEVEL (m) | DEPTH TO SOFFIT (m) | EASTING (m) | NORTHING (m) | | |
| S1 | 1350 | CATCHPIT | 12.800 | 12.200 | 0.300 | 487903.040 | 104235.561 | | |
| S2 | 1350 | CATCHPIT | 12.800 | 11.902 | 0.598 | 487905.722 | 104190.884 | | |
| S3 | 1350 | CATCHPIT | 12.800 | 11.720 | 0.780 | 487925.506 | 104191.694 | | |
| S4 | | SOAKAWAY | 12.800 | 11.697 | 0.803 | 487925.925 | 104186.143 | | |
| S5 | 1350 | CATCHPIT | 12.800 | 12.200 | 0.300 | 487949.308 | 104238.697 | | |
| S6 | 1350 | CATCHPIT | 12.800 | 11.895 | 0.605 | 487951.672 | 104192.934 | | |

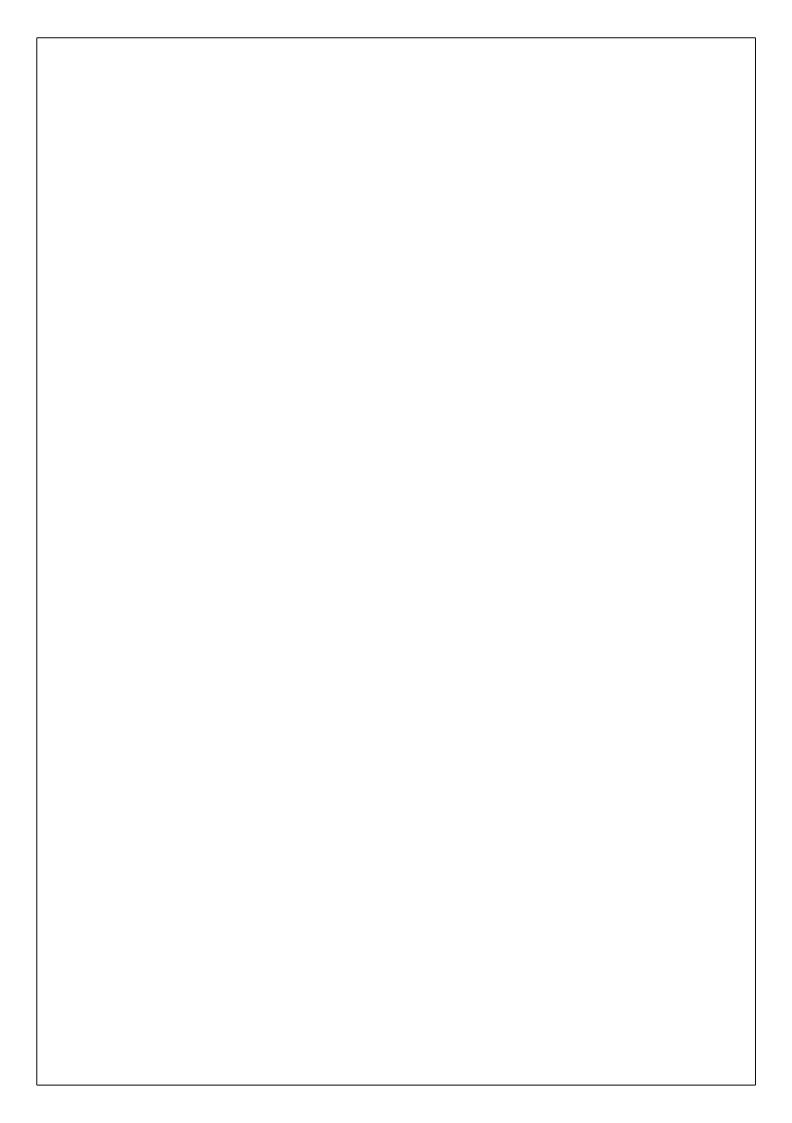
| PRIVATE SURFACE WATER DRAINAGE | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|
| S# | CATCHPIT | | | | | | |
| | PRIVATE SURFACE WATER DRAINAGE | | | | | | |
| | | | | | | | |
| | PERMEABLE PAVING (INFILTRATION WITH NO CONNECTION TO PIPED SYSTEM) 450mm subbase | | | | | | |













Hanbury Properties (Chichester) Ltd

Cathedral Park, Chichester Factual report on winter groundwater levels and infiltration testing

July, 2021



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| Approved | Nick Langdon, Director MSc BEng DIC CEnv CEng CMg | gr FICE FGS FCMI MIoD | | | | | | |
| Reference | CG/28824B | Issue Date | July 2021 | | | | | |

CATHEDRAL PARK, CHICHESTER Factual report on winter groundwater levels and infiltration testing



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Figure 2 Site layout and exploratory hole location plan

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Appendix A CGL trial pit and borehole logs

Appendix B Soakage test results



1. INTRODUCTION

1.1 General

Following discussions with Chichester District Council (CDC) in September 2019 on the preliminary drainage design for Phase 1 of Cathedral Park Business Park (Bognor Bridge Road), Chichester PO20 1EG, it was agreed that there would be a programme of groundwater monitoring of specifically installed standpipes through the winter months of November 2019 to February 2020. In addition, a series of BRE 365 infiltration tests would be undertaken within trial pits in the Phase 1 area at a level of 11.2mOD together with tests at deeper levels, circa 10.5mOD and falling head tests within the standpipe installations.

Following submission of the factual report specific to the Phase 1 area, Hanbury Properties instructed CGL to update the report to include groundwater monitoring data for the Phase 2 area of Cathedral Park Business Park

This report presents the factual information in connection with the testing and monitoring recently undertaken. A site location plan is provided in Figure 1.



2. WINTER GROUNDWATER LEVELS

2.1 Standpipe installations

A series of standpipes were installed across the site within windowless sampling boreholes, details of which are provided in Table 1 below. The monitoring response zones were such that groundwater levels at near surface relevant to a possible infiltration elevation of 11.2mOD could be achieved.

Table 1. Groundwater monitoring boreholes and corresponding ground levels

| Phase 1 Area | | | | | | | |
|--------------|----------|--|--|--|--|--|--|
| Borehole | GL (mOD) | | | | | | |
| WS305 | 12.9 | | | | | | |
| WS307 | 11.83 | | | | | | |
| WS308 | 12.15 | | | | | | |
| WS309 | 11.8 | | | | | | |
| BH201 | 11.8 | | | | | | |
| BH2 | 11.95 | | | | | | |
| Phase | 2 Area | | | | | | |
| Borehole | GL (mOD) | | | | | | |
| WS301 | 13.26 | | | | | | |
| WS302 | 13.24 | | | | | | |
| WS303 | 12.94 | | | | | | |
| WS304 | 12.5 | | | | | | |
| WS306 | 12.4 | | | | | | |
| WS310 | 12.49 | | | | | | |
| WS311 | 12.87 | | | | | | |
| WS312 | 12.9 | | | | | | |
| WS313 | 12.6 | | | | | | |
| WS204 | 12.4 | | | | | | |
| WS211 | 11.8 | | | | | | |
| BH1 | 12 | | | | | | |

At the same time BH201 and BH2 from earlier stages of investigation were re activated.

The location of these monitoring points is shown on Figure 2. Borehole records are included in Appendix A.

2.2 Winter groundwater monitoring

It had been agreed that water level monitoring would occur at approximately 2 week intervals through the months of November and December, 2019 and January and February, 2020.

The tabulated readings in relation to Ordnance Datum are shown in Table 2 and Table 3 below.



Table 2. Winter groundwater monitoring records for Phase 1 Area

| | | 23/10/2019 | 06/11/2019 | 20/11/2019 | 11/12/2019 | 23/12/2019 | 03/01/2020 | 16/01/2020 | 29/01/2020 | 12/02/2020 | 02/03/2020 |
|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Borehole | GL (mOD) | Level (mOD) |
| WS305 | 12.9 | 9.63 | 9.64 | 9.67 | 9.65 | 10.2 | 10.13 | 10.14 | 10.07 | 10.02 | 10.23 |
| WS307 | 11.83 | 9.77 | 9.54 | 9.56 | 9.77 | 10.46 | 10.31 | 10.32 | 10.23 | 10.12 | 10.31 |
| WS308 | 12.15 | DRY |
| WS309 | 11.8 | 9.74 | 9.72 | 9.82 | 9.75 | 10.52 | 10.39 | 10.38 | 10.23 | 10.19 | 10.39 |
| BH201 | 11.8 | 9.49 | 8.98 | 9.61 | 9.55 | 10.29 | 10.15 | 10.14 | 10.07 | 9.98 | 10.17 |
| BH2 | 11.95 | 9.69 | 9.7 | 9.7 | 9.63 | 10.41 | 10.25 | 10.21 | 10.16 | 10.08 | 10.25 |

Table 3. Winter groundwater monitoring records for Phase 2 Area

| | | 23/10/19 | 6/11/1 9 | 20/11/19 | 11/12/19 | 23/12/19 | 03/01/20 | 16/01/20 | 29/01/20 | 12/02/20 | 02/03/20 |
|--------------|-------------|----------------|----------------|----------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Borehol e | GL (mOD) | Level (mOD) | Level (mOD) | Level (mOD) | Level (mOD) | Level (mOD) | Level (mOD) | Level (mOD) | Level (mOD) | Level (mOD) | Level (mOD) |
| WS301 | 13.26 | 9.86 | 9.79 | 9.79 | 9.79 | 10.46 | 10.35 | 10.37 | 10.27 | 10.16 | 10.38 |
| WS302 | 13.24 | 9.73 | 9.73 | 9.73 | 9.70 | 10.27 | 10.19 | 10.21 | 10.12 | 10.01 | 10.21 |
| WS303 | 12.94 | 9.62 | 9.6 | 9.6 | 12.47 FLOODED | 10.2 | 10.09 | 10.14 | 9.96 | 10.01 | 10.23 |
| WS304 | 12.5 | 9.24 | 9.18 | 9.65 | 9.22 | 9.76 | 9.67 | 9.84 | 9.6 | 9.67 | 9.9 |
| WS306 | 12.4 | 9.79 | 9.77 | 9.79 | 9.76 | 10.49 | 10.36 | 10.38 | 10.3 | 10.15 | 10.37 |
| WS310 | 12.49 | 9.77 | 9.79 | 9.85 | 9.78 | 10.65 | 10.49 | 10.46 | 10.34 | 10.29 | 10.5 |
| WS311 | 12.87 | 9.84 | 9.84 | 9.85 | 9.83 | 10.59 | 10.42 | 10.43 | 10.35 | 10.28 | 10.49 |
| WS312 | 12.9 | 9.69 | 9.6 | 9.74 | 9.69 | 10.42 | 10.29 | 10.3 | 10.13 | 10.13 | 10.34 |
| WS313 | 12.6 | 10.39 | 10.25 | 10.27 | 10.28 | 11.15 | 11.02 | 11.01 | 10.94 | 10.85 | 11.03 |
| WS204 | 12.4 | 10.18 | 10.18 | 10.21 | 10.17 | 11.01 | 10.84 | 10.81 | 10.66 | 10.63 | 10.79 |
| WS211 | 11.8 | 8.79 | 8.79 | 8.86 | 8.81 | 9.41 | 9.28 | 9.29 | 9.18 | 9.17 | 9.38 |
| BH1 | 12 | 9.69 | 9.26 | 9.23 | 9.14 | 10.01 | 9.85 | 9.83 | 9.75 | 9.64 | 9.86 |

The water levels can be compared to the proposed development levels and the proposed infiltration level for the Phase 1 area of 11.2mOD as shown in Plate 1 below.



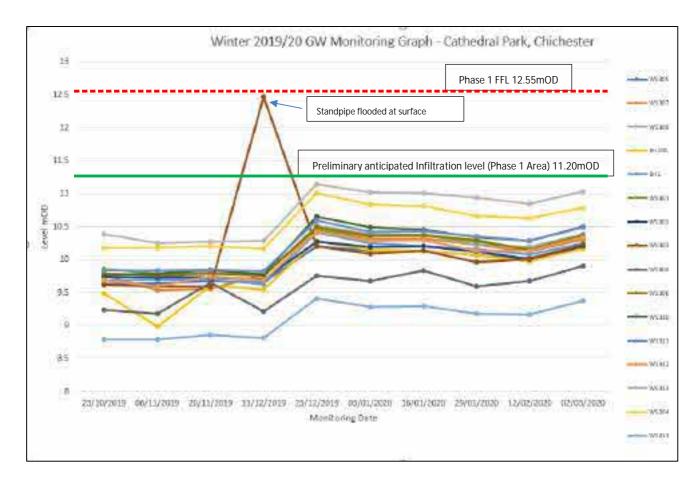


Plate 1. Winter groundwater levels compared to key development levels

2.3 Rainfall records for monitoring period

The winter of 2019/20 has seen a series of significant storms and greater than average monthly rainfall for the last decade as shown in Plate 2 below.



Plate 2. Rainfall data for Chichester - 2009 to 2020



3. INFILTRATION

3.1 Infiltration testing

Two series of infiltration tests were undertaken, broadly in line with BRE365 as conditions allowed in January and March 2020. Two levels for infiltration testing were targeted, approximately 11.2mOD and deeper at approximately 10.5mOD. The locations of the tests are shown on Figure 2.

Trial pit logs are provided in Appendix A. The records for each test are presented in Appendix B.

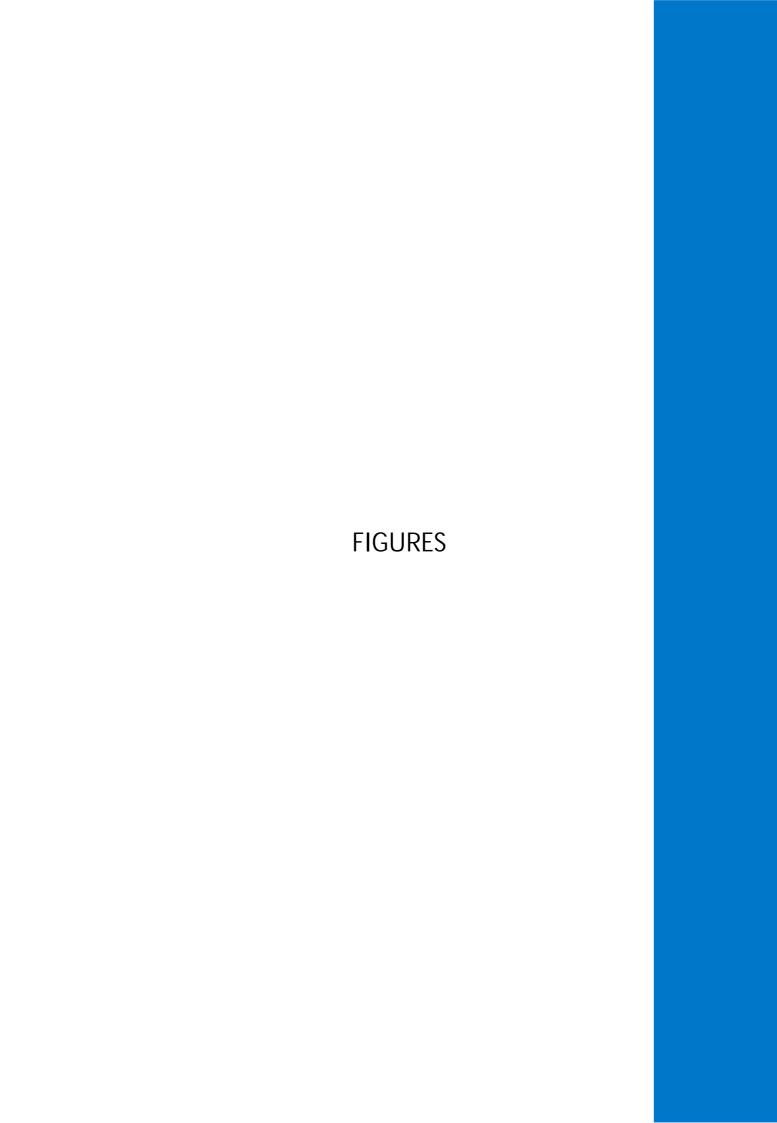
In summary, the infiltration permeability in m/s for those tests done at approximately 11.2mOD are tabulated below:

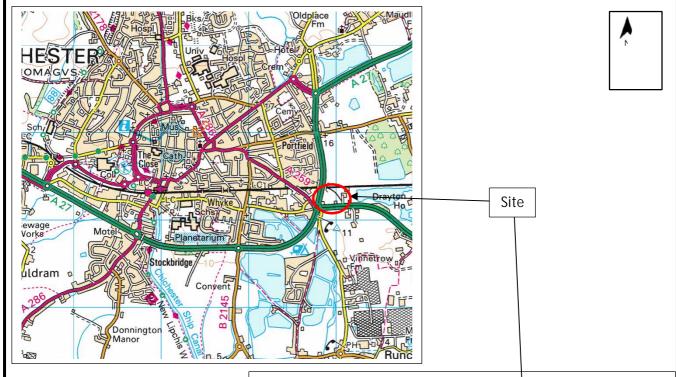
| Location | Level of test | Run 1 | Run 2 | Run 3 | Average |
|----------|---------------|----------|----------|----------|----------|
| SA-401 | 11.30 | 3.25E-05 | | | 3.25E-05 |
| SA-403 | 11.65 | 3.71E-05 | | | 3.71E-05 |
| SA-404 | 11.20 | 1.76E-04 | 8.30E-05 | 1.65E-03 | 6.36E-04 |
| SA-405 | 11.25 | 1.76E-03 | 1.47E-03 | 1.06E-03 | 1.43E-03 |
| SA-406 | 10.85 | 3.50E-03 | 1.64E-03 | 1.38E-03 | 2.17E-03 |
| SA-407 | 11.10 | 3.03E-04 | 1.45E-04 | 8.95E-05 | 1.79E-04 |
| | | | | Average | 7.47E-04 |

Note: Results for SA402 have been omitted due to presence of void infilled with brick cobbles encountered below soakage test level.

The infiltration permeability for those tests done at approximately 10.5mOD are tabulated below:

| Location | Level of test | Run 1 | Run 2 | Run 3 | Average |
|----------|---------------|----------|----------|----------|----------|
| SA_301 | 10.70 | 7.14E-04 | 3.66E-04 | 1.52E-04 | 4.11E-04 |
| SA_302 | 10.75 | 1.94E-02 | 1.66E-03 | 1.45E-03 | 7.51E-03 |
| SA_303 | 10.45 | 4.74E-03 | 1.29E-03 | 2.33E-03 | 2.79E-03 |
| SA_304 | 10.65 | 1.44E-03 | 5.34E-04 | 2.32E-04 | 7.34E-04 |
| SA_305 | 10.30 | 1.75E-03 | 1.38E-03 | 1.10E-03 | 1.41E-03 |
| SA_306 | 11.05 | 4.23E-04 | 2.16E-04 | 7.89E-04 | 4.76E-04 |
| SA_307 | 9.90 | 5.70E-04 | 4.57E-04 | 4.20E-04 | 4.82E-04 |
| SA_308 | 10.35 | 2.88E-04 | 1.82E-04 | 2.34E-04 | 2.35E-04 |
| SA_309 | 9.95 | 8.22E-05 | 6.14E-04 | 7.73E-04 | 4.90E-04 |
| | | | | Average | 1.61E-03 |



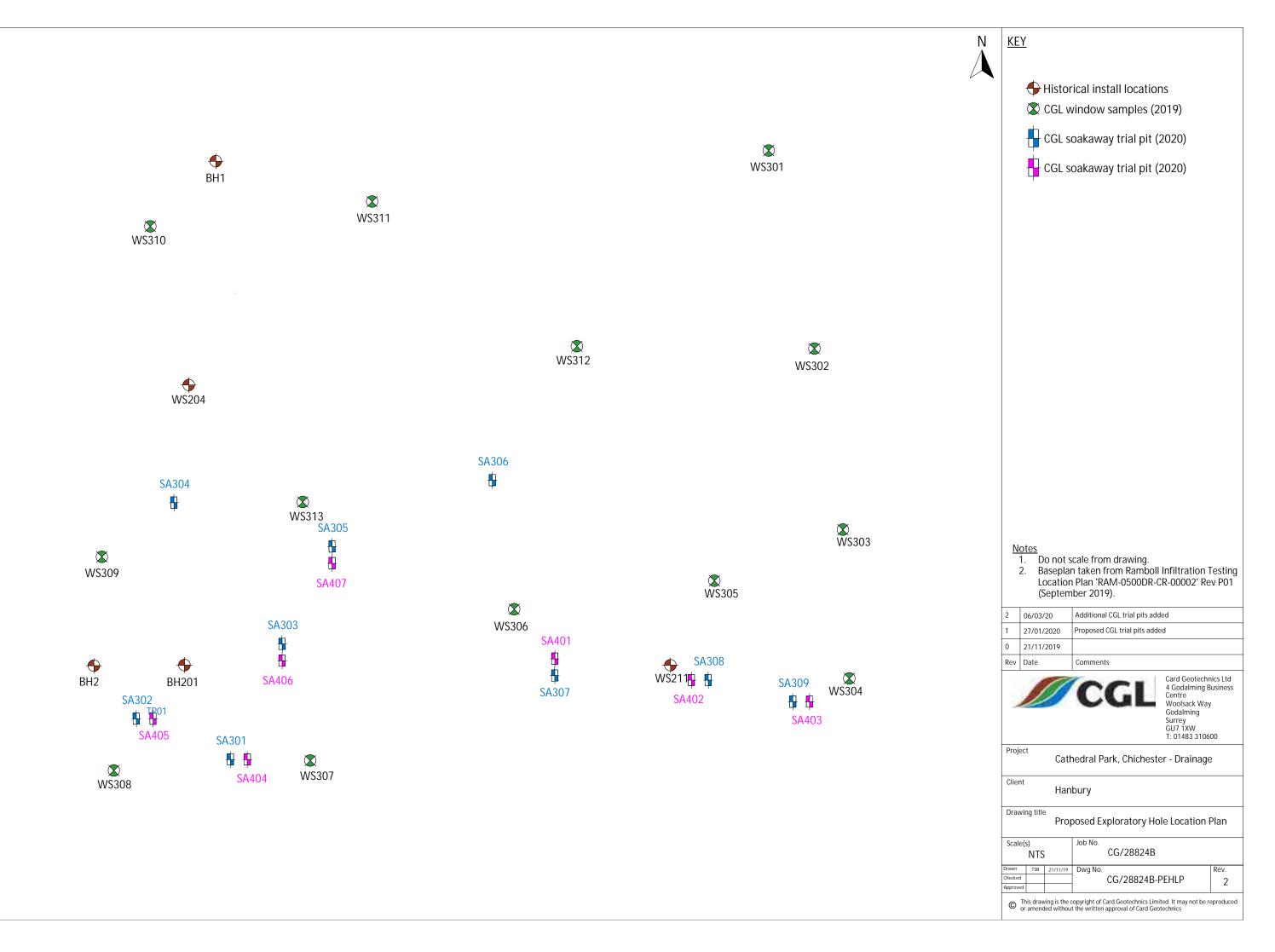




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| Hanbury Properties (Chichester) Ltd | Cathedral Park, Chichester | Job No CG/28824B |
|--|----------------------------|---------------------|
| CGL | Site Location Plan | Figure 1 |



APPENDIX A

CGL borehole and trial pit logs



| Project | | | | TRIAL PIT No |
|--------------|---------------|------------------|-------------------------|--------------|
| Cathedral Pa | C A 2 O 1 | | | |
| Job No | Date 29-01-20 | Ground Level (m) | Co-Ordinates (m) | - SA301 |
| CG/28824 | 29-01-20 | 12.00 | E 487,885.3 N 104,172.8 | |
| Client | Sheet | | | |
| Hanbury Pro | 1 of 1 | | | |

| 1. Trial excavated for BRE365 soakage test. 2. Coordinates and ground levels extracted from topographic survey. 3. Backfilled with arisings upon completion topographic survey. Stable | SHOTTE | | | | | | | 011 | 001 |
|--|------------|----------|--|----------|---|----------------------------|---|--|---------------------------------------|
| Depth (m) Type Result (even dependence) Result | Hanbu | ry Prope | erties (0 | Chichest | ter) Lin | nited | | | 1 of 1 |
| Grass over: Firm dark brown sandy gravelly silt TOPSOIL. Sand is fine to coarse Grave is time to medium, angular to subrounded of filmt. 11.00 10.70 Medium dense dark brown sandy very silty fine to coarse. Frequent cobbies of angular to rubrounded filmt. Medium dense dark brown sandy very silty fine to coarse. Frequent cobbies of angular to rubrounded filmt. Medium dense dark brown sandy very silty fine to coarse. Frequent cobbies of angular to rubrounded filmt. Medium dense dark brown sandy very silty fine to coarse. Frequent cobbies of angular to rubrounded filmt. 1.00 Becoming dense. Ceneral Remarks 1.71al excavated for BRE365 soakage test. 2. Coordinates and ground levels extracted from topographic survey. 3. Backfilled with arisings upon completion strated from topographic survey. 3. Backfilled with arisings upon completion to the firmth of the properties of the prope | SAMPLES | | | | | | | | |
| 11.70 1.00 | Depth T | ype Res | est Sult Sult | | Legend | (Thick- | | ON | |
| 1. Trial excavated for BRE365 soakage test. 2. Coordinates and ground levels extracted from topographic survey. 3. Backfilled with arisings upon completion topographic survey. Stable | Depth T I | Type Res | est sult water and a support of the sult o | 11.70 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | (0.30) (0.30) (0.70) | Grass over: Firm dark brown sandy gravelly Gravel is fine to medium, angular to subrounded is fine to subrounded of flint. Sand is fine angular to rubrounded flint. Medium dense dark brown sandy very silty subrounded of flint. Sand is fine to coarse. rubrounded flint. 1.00 Becoming dense. | y silt TOPSOIL. Sar unded of flint. y SILT. Gravel is fir to coarse. Freque | ne to coarse, ent cobbles of |
| Method/ Field Crew Logged By Checked By | Stability: | | | - | | - | | . 2. Coordinates a filled with arising | nd ground levels s upon completior |



| Project | | | | TRIAL PIT No | | | |
|--------------|---|------------------|-------------------------|--------------|--|--|--|
| Cathedral Pa | SA302 | | | | | | |
| Job No | Date 29-01-20 | Ground Level (m) | Co-Ordinates (m) | | | | |
| CG/28824 | 29-01-20 | 12.05 | E 487,857.3 N 104,184.9 | | | | |
| Client | Sheet | | | | | | |
| Hanbury Pro | Hanbury Properties (Chichester) Limited | | | | | | |

| 1 | | | | | | | | | 11001 |
|--|------------|-------------------------------|----------|------------------|--|-------------------------------|--|---------------------------------------|---|
| Han | bury Pi | ropertie | es (C | Chichest | er) Lin | nited | | | 1 of 1 |
| SAMPLI | ES & TI | ESTS | je. | | | | STRATA | | |
| Depth (m) | Type No | Test Result (N/kPa/ppm) | Water | Reduced Level | Legend | Depth (m) (Thick- ness) | DESCRIPTION | ON | |
| | | | | 11.65 | %Ω ' X | - (0.40) - 0.40 | Grass over: Dark brown slighlty gravelly, sil Gravel is fine to medium, angular to subrou Firm dark brown very gravelly sandy cobbly angular to subrounded of flint. Sand is fine | unded of flint. | |
| | | | | | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | (0.60) | angular to subrounded flint. 0.70 Becoming light brown and slightly sand | | dent comples of |
| | | | | 11.05 | *0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × | } | Medium dense dark brown slightly silty sar rounded GRAVEL of flint. Sand is fine to coa subrounded flint. | ndy fine to coars arse. Frequent c | se, subangular to obbles of angular to |
| Plan O.8m Stability: Method/ Plant Used | | | | | | | (Pit terminated at 1.3m) General Remarks | | |
| 0.8m | Stab | ßm——— | - | | | | Trial excavated for BRE365 soakage test. extracted from topographic survey. 3. Back | 2. Coordinates filled with arisir | and ground levels ngs upon completion |
| Method/ Plant Used | 8 tor | nne tracl | ked | excavato | or | | Field Crew BPH Plant Hire | Logged By ELD | Checked By DRAFT |



| Project | | | | TRIAL PIT No |
|--------------|---------------|------------------|-------------------------|--------------|
| Cathedral Pa | C \ 2 \ 2 | | | |
| Job No | Date 29-01-20 | Ground Level (m) | Co-Ordinates (m) | - SA303 |
| CG/28824 | 29-01-20 | 11.65 | E 487,900.7 N 104,207.2 | |
| Client | Sheet | | | |
| Hanbury Pro | 1 of 1 | | | |

| l | Hanbury Properties (Chichester) Limited 1 of 1 | | | | | | | | |
|--------------------------------------|---|-------------------------------|-------|------------------|----------|--|---|---|--|
| | | <u>'</u> | es (C | hichest | ter) Lim | nited | | | 1 of 1 |
| SAMPLE | ES & TI | | e. | | | | STRATA | | |
| Depth (m) | Type No | Test Result (N/kPa/ppm) | Wate | Reduced Level | Leaend | Depth (m) <u>(</u> Thick- ness) | DESCRIPTI | | |
| Depth (m) | | Test Result (N/kPa/ppm) | Water | 11.25 | Legend | - (0.40) - 0.40 - (0.60) - 1.00 | | ly silty fine to coar unded of flint. y SILT. Gravel is fin to coarse. Frequen | e to coarse, nt cobbles of ed GRAVEL of flint. |
| Plan Stability: Method/ Plant Used | | .5m | | - | | - | General Remarks 1. Trial excavated for BRE365 soakage test. extracted from topographic survey. 3. Back | . 2. Coordinates an | d ground levels upon completion |
| Stability: | Stab | le | |] | | | | | |
| Method/ Plant Used | Method/ Plant Used 8 tonne tracked excavator | | | | or | | Field Crew BPH Plant Hire | Logged By ELD | Checked By DRAFT |



| Project | | | | | TRIAL PIT No |
|----------------|---------------|------------------|------------------|-------------|--------------|
| Cathedral Parl | SA304 | | | | |
| Job No | Date 29-01-20 | Ground Level (m) | Co-Ordinates (m) | | 3A3U4 |
| CG/28824 | 29-01-20 | 11.85 | E 487,868.4 | N 104,249.2 | |
| Client | Sheet | | | | |
| Hanbury Prop | 1 of 1 | | | | |

| Hanl | oury Pr | opertie | es (C | Chichest | er) Lim | 1 of 1 | | |
|--|------------|-------------------------------|-------|------------------|---------|---------------------------------------|--|--------------------------------------|
| SAMPLE | S & TE | STS | ŀ | | | | STRATA | |
| Depth (m) | Type No | Test Result (N/kPa/ppm) | Water | Reduced Level | Legend | Depth (m) <u>(</u> Thick- ness) | DESCRIPTION | |
| Report ID: CGL TP LOG Project: CG_28824B CATHEDRAL PARK, CHICHETSTER. GPJ Library: CGL_AGS4_R1.GLB Date: 9 March 2020 Definition | | Result (N/kPa/ppm) | | 11.25 | % | - (0.60) - 0.60 | Grass over: Dark brown slightly gravelly silty fine to coal is fine to medium, angular to subrounded of flint. Firm dark brown very gravelly sandy cobbly SILT. Gravel angular to subrounded of flint. Sand is fine to coarse. Frangular to rubrounded flint. Dense light brown slightly sandy fine to coarse, subange of flint. Sand is fine to coarse. Frequent cobbles of angular to rubrounded at 1.2m) General Remarks 1. Trial excavated for BRE365 soakage test. 2. Coordinal extracted from topographic survey. 3. Backfilled with an extracted from topographic survey. | is fine to coarse, equent cobbles of |
| Stability: | Stab | le | | | | | | |
| Ö | y. | | | | | Elali Comment | Object 15 | |
| Method/ Plant Used | 8 tor | nne trac | ked | excavato | or | | Field Crew BPH Plant Hire Logged By ELD | Checked By DRAFT |



| Project | | | | TRIAL PIT No | | | |
|--------------|---|------------------|-------------------------|--------------|--|--|--|
| Cathedral Pa | SA305 | | | | | | |
| Job No | Date 29-01-20 | Ground Level (m) | Co-Ordinates (m) | | | | |
| CG/28824 | 29-01-20 | 11.90 | E 487,915.6 N 104,236.2 | | | | |
| Client | Sheet | | | | | | |
| Hanbury Pro | Hanbury Properties (Chichester) Limited | | | | | | |

| Hanbury Propertie | es (C | Chichester) Limited | 1 of 1 | |
|---|----------|--|---|----------------------------------|
| SAMPLES & TESTS | 7 | | STRATA | |
| Depth Type Result (N/kPa/ppm) | Water | Reduced Level Legend (Thick- ness) | DESCRIPTION | |
| - | | × × × × × × × × × × × × × × × × × × × | Grass over: Firm dark brown slightly gravelly sandy silt TOPSOII coarse. Gravel is fine to coarse, angular to subrounded of flint. Firm dark brown very gravelly sandy cobbly SILT. Gravel is fine | |
| - | | (0.72) | angular to subrounded of flint. Sand is fine to coarse. Frequent angular to rubrounded flint. | cobbles of |
| - - - :- | ± | (0.48) | Structureless CHALK composed of light brown to cream slightly medium to coarse, subangular to rounded GRAVEL with many cobbles. Gravel is of flint and weak, low density, white chalk. N uncompact and light brown. (Grade Dc) | rounded flint |
| Plan Stability: Stable Method/ Plant Used 8 tonne trace | ÷ | - | (Pit terminated at 1.6m) | |
| Plan | | | General Remarks | |
| 2.8m—— | | - | Trial excavated for BRE365 soakage test. 2. Coordinates and extracted from topographic survey. 3. Backfilled with arisings under the state of t | ground levels ipon completion |
| Stability: Stable | | | | |
| Method/ Plant Used 8 tonne trac | ked | excavator | Field Crew BPH Plant Hire Logged By ELD | Checked By DRAFT |



| Project | | | | TRIAL PIT No | | | |
|--------------|---|---------|----------------------|--------------|--|--|--|
| Cathedral Pa | SA306 | | | | | | |
| Job No | ob No Date 30-01-20 Ground Level (m) Co-Ordinates (m) | | | | | | |
| CG/28824 | 30-01-20 | 12.65 | E 487,963.3 N 104,25 | 55.9 | | | |
| Client | Sheet | | | | | | |
| Hanbury Pro | perties (Chichester) | Limited | | 1 of 1 | | | |

| Hanbury Propertie | s (C | hichester) Limited | | | 1 of 1 |
|--------------------------------------|-------|------------------------------------|--|---|--|
| SAMPLES & TESTS | | STRATA | | | |
| Depth Type Result (m) No (N/kPa/ppm) | Water | Reduced Legend (Thick- ness) | DESCRIPTIO | ON | |
| | | (0.55) | Grass over: Firm dark brown to orange sligh TOPSOIL. Sand is fine to coarse. Gravel is fir subrounded of flint. Firm dark brown very clayey gravelly sandy angular to subrounded of flint. Sand is fine | | |
| - | | 11.20 (2.25) | angular to rubrounded flint. | | |
| - | | (0.15) 11.05 (0.15) 1.60 | Structureless CHALK composed of slightly g Gravel is fine to medium, angular to subrou white of chalk. Cobbles are angular to subro (Pit terminated at 1.6m) | ravelly SILT with oc nded of flint and w ounded flint. (Grade | casional cobbles. eak, low density e Dm) |
| Plan | | | General Remarks | | |
| → 2.45m— 0.7m ↓ | | | Trial excavated for BRE365 soakage test. extracted from topographic survey. 3. Backi | 2. Coordinates and filled with arisings u | ground levels upon completion |
| Stability: Stable | | | | | |
| Method/ Plant Used 8 tonne track | ced | excavator | Field Crew BPH Plant Hire | Logged By ELD | Checked By DRAFT |



| Project | | | | TRIAL PIT No | | | | | |
|---------------|---|---|-------------------------|--------------|--|--|--|--|--|
| Cathedral Par | SA307 | | | | | | | | |
| Job No | Date 30-01-20 | Date 20 01 20 Ground Level (m) Co-Ordinates (m) | | | | | | | |
| CG/28824 | 30-01-20 | 12.00 | E 487,981.9 N 104,197.8 | | | | | | |
| Client | Client | | | | | | | | |
| Hanbury Prop | Hanbury Properties (Chichester) Limited | | | | | | | | |

| Hanbury Propertie | s (C | Chichester) Limited | | 1 of 1 | |
|---|-------|------------------------------------|--|--|--|
| SAMPLES & TESTS | | | STRATA | | |
| Depth Type Result (M) No (N/kPa/ppm) | Water | Reduced Legend (Thick- ness) | DESCRIPTION | N | |
| | | X | Grass over: Dark brown slightly sandy slightly fine to coarse. Gravel is fine to medium, angu | | |
| - - - - | | (0.70) | Firm dark brown very gravelly sandy cobbly SI angular to subrounded of flint. Sand is fine to angular to rubrounded flint. | ilLT. Gravel is fine o coarse. Frequent | to coarse, cobbles of |
| - - - | | (0.40) | Structureless CHALK composed of slightly grader of structureless CHALK composed of slightly grader of subrounce white of chalk. Cobbles are angular to subrounce of chalk. | ivelly SILT with oc ded of flint and w inded flint. (Grade | casional cobbles. eak, low density Dm) |
| Plan Stability: Stable Method/ Plant Used 8 tonne track | | 9.90 × × × 2.10 | (Pit terminated at 2.1m) | | |
| Plan | | | General Remarks | | |
| 2.5m—— | - | | Trial excavated for BRE365 soakage test. 2. extracted from topographic survey. 3. Backfill | . Coordinates and led with arisings u | ground levels upon completion |
| Stability: Stable | | | | | |
| Method/ Plant Used 8 tonne track | ked (| excavator | Field Crew BPH Plant Hire Lc | ogged By ELD | Checked By DRAFT |



| Project | | | | TRIAL PIT No | | | | |
|--------------|----------------------|------------------|-------------------------|--------------|--|--|--|--|
| Cathedral Pa | SA308 | | | | | | | |
| Job No | Date 30-01-20 | Ground Level (m) | Co-Ordinates (m) | 3A3U0 | | | | |
| CG/28824 | 30-01-20 | 12.10 | E 488,027.6 N 104,196.4 | | | | | |
| Client | Client | | | | | | | |
| Hanbury Pro | perties (Chichester) | Limited | | 1 of 1 | | | | |

| | Hank | oury Pr | opertie | es (C | Chichester) Lin | ichester) Limited | | | |
|---|-----------------------|------------|-------------------------------|-------|-------------------------|--|--|--|--|
| | SAMPLE | S & TE | | Ţ. | | | STRATA | | |
| | Depth (m) | Type No | Test Result (N/kPa/ppm) | Water | Reduced Level Legend | Depth (m) (<u>T</u> hick- <u>nes</u> s) | DESCRIPTION | | |
| | | | | | X | (1.00) | Grass over: Dark brown clayey silt TOPSOIL. Sand is fine fine to coarse, angular to subrounded of gravel flint. | to coarse. Occasional | |
| LB Date: 9 March 2020 | | | | | X | (0.55) | Medium dense light brown to cream silty gravelly fine to fine to medium, angular to subrounded of flint. | | |
| AGS4_R1.G | | | | | 10.35 | (0.20) | Dense brown silty SAND and GRAVEL. Sand is fine to coangular to subrounded flint. Gravel is fine to coarse, and flint. | rse. Frequent cobbles of Jular to subrounded of | |
| Report D. CGL TP LOG Project: CG_28824B CATHEDRAL PARK, CHICHETSTER.GPJ Library: CGL AGS4_R1.GLB Date: 9 March 2020 | | | | | | - | (Pit terminated at 1.75m) | | |
| | Plan | | 1 | | | | General Remarks | | |
| GL P LUG Project: CG_28824B (| 0.7m Stability: | 2. | 3m | • | | | Trial excavated for BRE365 soakage test. 2. Coordinat extracted from topographic survey. 3. Backfilled with ar | es and ground levels isings upon completion | |
| Keport ID: C | Method/ Plant Used | 8 tor | nne tracl | ked | excavator | | Field Crew Logged By BPH Plant Hire ELD | Checked By DRAFT | |



| Project | | | | | TRIAL PIT No | |
|--------------|--|---------|-------------|-------------|--------------|--|
| Cathedral Pa | SA309 | | | | | |
| Job No | No Date 30-01-20 Ground Level (m) Co-Ordinates (m) | | | | | |
| CG/28824 | 30-01-20 | 12.05 | E 488,052.8 | N 104,190.0 | | |
| Client | Sheet | | | | | |
| Hanbury Pro | perties (Chichester) | Limited | | | 1 of 1 | |

| | Hank | oury Pr | ropertie | es (C | Chichester) L | nichester) Limited | | | |
|--|---------|------------|-------------------------------|-------|---------------------------------------|--|--|---|--|
| SA | MPLE | S & TE | | Jé | , | | STRATA | | |
| Dep (m | th) | Type No | Test Result (N/kPa/ppm) | Water | Reduced Level Leger | Depth (m) nd <u>(T</u> hick- <u>nes</u> s) | DESCRIPTION | | |
| Report D. CGL TP LOG Project: CG_288248 CATHEDRAL PARK, CHICHETS TER. GPJ Library: CGL_AGS4_K1:GLB Date: 9 March 2020 | | | | | X X X X X X X X X X | (1.10) (1.10) (1.10) (1.10) (1.10) (1.10) (1.10) | Firm dark brown very sandy slightly gravelly cobbly SIL angular to subrounded of flint. Sand is fine to coarse. Fangular to rubrounded flint. Structureless CHALK composed of slightly gravelly SILT Gravel is fine to medium, angular to subrounded of flir white of chalk. Cobbles are angular to subrounded flint (Pit terminated at 2.1m) | with occasional cobbles. | |
| Plan | | | | | | | General Remarks | | |
| PLOG Project: CG_288248 | | | 5m | | | | Trial excavated for BRE365 soakage test. 2. Coordinates extracted from topographic survey. 3. Backfilled with a survey. 3. Backfilled with a survey. | ites and ground levels risings upon completion | |
| Stabil | od/ | Stab | | | | | Field Crew Logged By | Checked By | |
| Plant l | Jsed | 8 tor | nne tracl | ked | excavator | | BPH Plant Hire ELD | DRAFT | |



| Project | | | | TRIAL PIT No | | | | | |
|--------------|----------------------|------------------|-------------------------|--------------|--|--|--|--|--|
| Cathedral Pa | SA401 | | | | | | | | |
| Job No | Date 02-03-20 | Ground Level (m) | Co-Ordinates (m) | 3A401 | | | | | |
| CG/28824 | 02-03-20 | 12.10 | E 487,981.9 N 104,202.8 | | | | | | |
| Client | Client | | | | | | | | |
| Hanbury Pro | perties (Chichester) | Limited | | 1 of 1 | | | | | |

| Hanbury Propertie | es (C | nichester) Limited 1 of | | | |
|---|-------|--|---|---|--|
| SAMPLES & TESTS | پ | | STRATA | | |
| Depth Type Result (N/kPa/ppm) | Water | Reduced Level Legend (Thick- ness) | DESCRIPTION | | |
| of English your Acost in the library water a major to the library water and the library | | 11.30 0.80 | Grass over: Firm dark brown slightly sandy slightly grave Sand is fine to coarse. Gravel is fine to medium, angular (Pit terminated at 0.8m) | lly silty clay TOPSOIL. to subrounded of flint. | |
| Plan | | | General Remarks | | |
| Plan 3.2m 0.65m Stability: Stable Method/ Plant Used 5 tonne track | - | | Trial excavated for BRE365 soakage test. 2. Coordinate extracted from topographic survey. 3. Backfilled with ari | es and ground levels sings upon completion | |
| Method/ Plant Used 5 tonne track | ked | excavator | Field Crew BPH Plant Hire Logged By SMS | Checked By DRAFT | |



| Project | | | | TRIAL PIT No | | |
|--------------|---|---------|-------------------------|--------------|--|--|
| Cathedral Pa | SA402 | | | | | |
| Job No | Date 02-03-20 Ground Level (m) Co-Ordinates (m) | | | | | |
| CG/28824 | 02-03-20 | 12.30 | E 488,022.6 N 104,196.4 | | | |
| Client | Sheet | | | | | |
| Hanbury Pro | perties (Chichester) | Limited | | 1 of 1 | | |

| | Han | bury Pi | ropertie | es (C | Chichest | er) Lin | nited | | 1 of 1 |
|--|---------------------------------|------------|-------------------------------|-------|------------------|---------|-------------------------------|--|---|
| | SAMPLES & TESTS | | | | | | | STRATA | |
| | Depth (m) | Type No | Test Result (N/kPa/ppm) | Water | Reduced Level | Legend | Depth (m) (Thick- ness) | DESCRIPTION | |
| DRAL PARK, CHICHETSTER.GPJ Library: CGL_AGS4_R1.GLB Date: 9 March 2020 | | | | | 11.40 | x | (0.90) (0.45) | Grass over: Firm dark brown slightly sandy slightly grave Sand is fine to coarse. Gravel is fine to medium, angular Cobbles of red brick (Pit terminated at 0.8m) | lly silty clay TOPSOIL. to subrounded of flint. |
| CATH | Plan | | | | | | | General Remarks | |
| Report ID: CGL TP LOG Project: CG_28824B CATHEDRAL PARK, CHICHET | → 3m → 0.7m ↓ Stability: Stable | | | | | | | Trial excavated for BRE365 soakage test. 2. Coordinat extracted from topographic survey. 3. Backfilled with ari | es and ground levels sings upon completion |
| Report ID: CC | Method/ Plant Used | 5 tor | nne tracl | ked | excavato | or | | Field Crew BPH Plant Hire Logged By SMS | Checked By DRAFT |



| Project | | | | TRIA | L PIT No | |
|---------------|--|-------|-------------------|--------|----------|--|
| Cathedral Par | C A | 403 | | | | |
| Job No | Job No Date 02-03-20 Ground Level (m) Co-Ordinates (m) | | | | | |
| CG/28824 | 02-03-20 | 12.45 | E 488,057.8 N 104 | ,190.0 | | |
| Client | Sheet | | | | | |
| Hanbury Prop | 1 | of 1 | | | | |

| Hanbury Propertie | es (C | Chichester) Limited | chester) Limited | | | |
|---|-------|--|---|---|--|--|
| SAMPLES & TESTS | ڀ | | STRATA | | | |
| Depth Type Result (N/kPa/ppm) | Water | Reduced Legend (Thick-ness) |) DESCRIPTION | | | |
| GCT_TPLOG Project: CG_28824B CAHEDRAL PARK, CHICHETSTER GPJ Library: CGL_A6824 R1 GtB Date: 9 March 2020 Plan Stabillity: Stable Method/ Plant Used Stabillity: Stable Method/ Plant Used 5 tonne trace | | Timess T | Sand is fine to coarse. Gravel is fine to medium, angular | lly silty clay TOPSOIL. to subrounded of flint. | | |
| Flan | | | General Remarks | | | |
| O.6m Stability: Stable | • | | Trial excavated for BRE365 soakage test. 2. Coordinat extracted from topographic survey. 3. Backfilled with ari | es and ground levels sings upon completion | | |
| Method/ Plant Used 5 tonne trac | ked | excavator | Field Crew BPH Plant Hire Logged By SMS | Checked By DRAFT | | |



| Project | | | | TRIAL PIT No | | | | |
|--------------|---|-------|-------------------------|--------------|--|--|--|--|
| Cathedral Pa | Cathedral Park, Drainage | | | | | | | |
| Job No | ob No Date 02-03-20 Ground Level (m) Co-Ordinates (m) | | | | | | | |
| CG/28824 | 02-03-20 | 12.00 | E 487,890.3 N 104,172.8 | | | | | |
| Client | Client | | | | | | | |
| Hanbury Pro | 1 of 1 | | | | | | | |

| Hanbury Propertie | es (C | Chichester) Limited | chester) Limited | | | | |
|--|-------|--|---|--|--|--|--|
| SAMPLES & TESTS | پ | | STRATA | | | | |
| Depth (m) Type Result (N/kPa/ppm) | Water | Reduced Level Legend (Thick- ness) | DESCRIPTION | | | | |
| | | 11.70 10.50 11.20 10.80 11.2 | Grass over: Firm dark brown slightly sandy slightly grave Sand is fine to coarse. Gravel is fine to medium, angular Firm brown slightly sandy very gravelly SILT. | lly silty clay TOPSOIL. to subrounded of flint. | | | |
| Plan Stability: Stable Method/ Plant Used 5 tonne trac | | - | | | | | |
| | | - | | | | | |
| Plan | | | General Remarks | | | | |
| 2.6m——2.6m——5.5 Value Stability: Stable | | | Trial excavated for BRE365 soakage test. 2. Coordinat extracted from topographic survey. 3. Backfilled with an arrange of the state of the stat | es and ground levels sings upon completion | | | |
| Method/ Plant Used 5 tonne trac | ked | excavator | Field Crew BPH Plant Hire Logged By SMS | Checked By DRAFT | | | |



| Project | | | | | TRIAL PIT No | | | | |
|---------------|--|--|--|-------------|--------------|--|--|--|--|
| Cathedral Par | Cathedral Park, Drainage | | | | | | | | |
| Job No | b No Date 02-03-20 Ground Level (m) Co-Ordinates (m) | | | | | | | | |
| CG/28824 | 02-03-20 | | | N 104,184.9 | | | | | |
| Client | Client | | | | | | | | |
| Hanbury Prop | Hanbury Properties (Chichester) Limited | | | | | | | | |

| Hanbury Propertie | es (C | Chichester) Limited | chester) Limited | | | | |
|-------------------------------------|-------|--|---|--|--|--|--|
| SAMPLES & TESTS | يا | | STRATA | | | | |
| Depth Type Result (N/kPa/ppm) | Wate | Reduced Level Legend (Thick- ness) |) DESCRIPTION | | | | |
| Donth Type Test | Water | Reduced Level Depth (m (Thick-ness)) Continue Cont | DESCRIPTION Grass over: Firm dark brown slightly sandy slightly grave Sand is fine to coarse. Gravel is fine to medium, angular Medium dense brown slightly sandy very silty GRAVEL | lly silty clay TOPSOIL. to subrounded of flint. | | | |
| Plan O.7m Stability: Stable | • | - | General Remarks 1. Trial excavated for BRE365 soakage test. 2. Coordinat extracted from topographic survey. 3. Backfilled with ari | es and ground levels sings upon completion | | | |
| Method/ Plant Used 5 tonne track | ked | excavator | Field Crew BPH Plant Hire Logged By SMS | Checked By DRAFT | | | |



| Project | | | | TRIAL PIT No | | | | |
|--------------|--|-------|-------------------------|--------------|--|--|--|--|
| Cathedral Pa | Cathedral Park, Drainage | | | | | | | |
| Job No | Job No Date 02-03-20 Ground Level (m) Co-Ordinates (m) | | | | | | | |
| CG/28824 | 02-03-20 | 11.65 | E 487,900.7 N 104,202.2 | | | | | |
| Client | Client | | | | | | | |
| Hanbury Pro | Hanbury Properties (Chichester) Limited | | | | | | | |

| Hanbury Prop | erties (0 | Chichester) Li | chester) Limited | | | |
|---|-----------------|--|------------------|---|--|--|
| SAMPLES & TESTS | | | | STRATA | | |
| Depth Type Re | est Water Water | Reduced Level Legend (Thick- ness) | |) DESCRIPTION | | |
| - | | Xo | (0.35) | Grass over: Firm dark brown slightly sandy slightly grave Sand is fine to coarse. Gravel is fine to medium, angular | lly silty clay TOPSOIL. to subrounded of flint. | |
| - | | 10.85 5 8. 5 | (0.45) | Medium dense brown slightly sandy very silty GRAVEL | | |
| - | | 10.85 | 0.80 | (Pit terminated at 0.8m) | | |
| Plan Stability: Stable Method/ Plant Used 5 tonne | | | | | | |
| Plan | | | | General Remarks | | |
| 2.6m- | | | | Trial excavated for BRE365 soakage test. 2. Coordinat extracted from topographic survey. 3. Backfilled with an arrange of the survey of the su | es and ground levels sings upon completion | |
| Method/ Plant Used 5 tonne | tracked | excavator | | Field Crew BPH Plant Hire Logged By SMS | Checked By DRAFT | |



| Project | | | | TRIAL PIT No | | | | |
|--------------|--|-------|-------------------------|--------------|--|--|--|--|
| Cathedral Pa | Cathedral Park, Drainage | | | | | | | |
| Job No | lob No Date 02-03-20 Ground Level (m) Co-Ordinates (m) | | | | | | | |
| CG/28824 | 02-03-20 | 11.90 | E 487,915.6 N 104,231.2 | | | | | |
| Client | Client | | | | | | | |
| Hanbury Pro | Hanbury Properties (Chichester) Limited | | | | | | | |

| | Hanl | oury Pr | opertie | es (C | Chichest | er) Lin | nited | | 1 of 1 |
|---|---|------------|-------------------------------|-------|------------------|---------------------------------------|--|---|---|
| | SAMPLE | ES & TE | STS | | | | | STRATA | |
| | Depth (m) | Type No | Test Result (N/kPa/ppm) | Water | Reduced Level | Legend | Depth (m) (Thick- ness) | DESCRIPTION | |
| Report ID: CGL TP LOG Project: CG_28824B CATHEDRAL PARK, CHICHETSTER.GPJ Library: CGL_AGS4_R1.GLB Date: 9 March 2020 | | | | | 11 50 | × × × × × × × × × × × × × × × × × × × | - (0.40) - (0.40) - (0.40) - (0.80) | Grass over: Firm dark brown slightly sandy slightly grave Sand is fine to coarse. Gravel is fine to medium, angular Firm brown slightly sandy very gravelly SILT. (Pit terminated at 0.8m) | lly silty clay TOPSOIL. to subrounded of flint. |
| SATH | Plan | | | | | | | General Remarks | |
| OG Project: CG_28824B (| -3.3m → 0.75m | | | | | | | Trial excavated for BRE365 soakage test. 2. Coordinate extracted from topographic survey. 3. Backfilled with ari | es and ground levels sings upon completion |
| ID: CGL TP L(| Stability: Stable | | | | | | | | |
| Report | Method/ Plant Used 5 tonne tracked excavator | | | | | | | Field Crew BPH Plant Hire Logged By SMS | Checked By DRAFT |



| Project | | | | HOLE No |
|---------------|------------------------|-------|--------------------|---------|
| Cathedral Par | k, Drainage | | | WS301 |
| Job No | W3301 | | | |
| CG/28824 | 21-10-19 | 13.26 | E 488,045.6 N 104, | 354.1 |
| Client | Sheet | | | |
| Hanbury Prop | erties (Chichester) Li | mited | | 1 of 1 |

| | Паі | ibur y Pi | ropertie | S (C | nicnes | iter) Lin | ntea | | | 1 of 1 |
|---|-----------------------|------------|-------------------------------|-------------------------|----------------------------------|---------------------|--|--|--|--|
| | SAMPL | ES & TI | ESTS | | | | | STRATA | | lent I |
| | Depth (m) | Type No | Test Result (N/kPa/ppm) | Water | Reduce Level | ^U Leaend | Depth (m) (Thick- ness) | DESCRIPTION | | Instrument /Backfill |
| Report ID: CGL WS LOG Project: CG_28824B CATHEDRAL PARK, CHICHETSTER.GPJ Library: CGL_AGS4_R1.GLB Date: 9 March 2020 | 1.40 | B1.9 | | ± dater Cor We | 11.96 11.76 11.16 11.16 | | (1.20) - (1.20) - (1.30) - (0.30) - (0.30) - (2.10) - (2.90) | Grass over: Soft brown slightly gravely silt. Gr. flint. With abundant fine rootlets. Soft clayey SILT with rare subangular, fine to root clayey subangular to angular, fine to coarse of flint. Firm light brown gravelly CLAY. Gravel is subramedium of flint. Medium dense light brown slightly silty claye subrounded to angular, fine to medium of flint. Medium dense cream to beige very silty GRAV angular, fine to coarse of flint. 3.00 Dark brown silt infill. 4.70 Silt becoming orange brown. (Window sample terminated at 5m) General Remarks 1. Window sample terminated at 5.0m bgl. 2. Wet soil was noted from 3.8m. 3. No in-situ testing undertaken. 4. Hole installed with: Top hat cover concrete 0.3m Plain 38mm pipe with bentonite seal; 0. filter pack; 3.3m to base collapsed granular sc. 5. Densities based on engineers observation. | y GRAVEL. Gravel rounded to angula ey GRAVEL. Gravel it and chalk. VEL. Gravel is subsequent and chalk. | is r, fine to is angular to surface; 0.0m to ed with gravel |
| Report | Method/ Plant Used | | Premier | Con | npact | | | Field Crew Oakland SI | ogged By CGH | Checked By DRAFT |



| Project | | | | HOLE No |
|---------------|------------------------|-------|-------------------------|---------|
| Cathedral Par | k, Drainage | | | WS302 |
| Job No | VV33UZ | | | |
| CG/28824 | 21-10-19 | 13.24 | E 488,059.2 N 104,295.1 | |
| Client | Sheet | | | |
| Hanbury Prop | erties (Chichester) Li | mited | | 1 of 1 |

| L | Han | bury Pi | opertie | s (C | niches | iter) Lim | nited | 1 of 1 | | |
|--|-------------------------------|--------------------------------|-------------------------------|-------|-------------------------|---------------------|--|---|--|------------------------|
| | SAMPL | ES & TI | ESTS | ب | | | | STRATA | | ent |
| | Depth (m) | Type No | Test Result (N/kPa/ppm) | Water | Reduce Level | ^u Leaend | Depth (m) (Thick- ness) | DESCRIPTION | | Instrument Mackfill |
| İ | | | | | 13.14 | 1 🖯 | 0.10 | Grass over: Soft brown silt with abundant ro | | |
| Report ID: CGL WS LOG Project: CG_2824B CATHEDRAL PARK, CHICHETSTER.GPJ Library: CGL_AGS4_R1.GLB Date: 9 March 2020 | Boring Property Date 21-10-19 | Ogress Strike depth 4 | | Cor | 11.34 11.14 Obser | | - (1.80) - (1.80) - 1.90 - 2.10 - (2.90) | Soft brown slightly gravelly clayey SILT. Grav fine to medium of flint. Soft brown very gravelly CLAY. Gravel is subcoarse of flint. Medium dense to dense brown very clayey to very angular, fine to coarse of flint. 3.00 Becoming clayey. 3.50 Becoming slightly clayey. 4.00 Becoming light brown. (Window sample terminated at 5.0m bgl. 2. Wet soil was noted from 4.0m. 3. No in-situ testing undertaken. 4. Hole installed with: Top hat cover concret 0.5m Plain 38mm pipe with bentonite seal; tilter pack; 4.5m to base collapsed granular 5. Densities based on engineers observation | vel is subangular to angular to angular to angular to angular to angular GRAVEL. Gravel is solong to and bentonite at 0.5m to 4.5m Slott soil. | fine to subangular |
| ᇍ | Method/ | | | | | | | Field Crew | Logged By | Checked By |
| Repo | Plant Used | | Premier | Con | npact | | | Oakland SI | CGH | DRAFT |



| Project | | | | | HOLE No |
|---------------|------------------------|------------|-------------|-------------|---------|
| Cathedral Par | k, Drainage | | | | WS303 |
| Job No | | VV 3 3 U 3 | | | |
| CG/28824 | 21-10-19 | 12.94 | E 488,067.7 | N 104,241.9 | |
| Client | | Sheet | | | |
| Hanbury Prop | erties (Chichester) Li | mited | | | 1 of 1 |

| 12.84 Section Crass over: Soft brown slit with abundant rootlets. Soft brown dayey SILT. Rare subangular, fine to medium flint gravel. | напригу Ргорегие | es (C | nichester) Lim | iitea | 101 | | | |
|--|---|----------|-------------------------|---------------------------------------|---|--|--------------------|-----------------------|
| 12.84 O.10 Grass over: Soft brown silt with abundant rootlets. X | SAMPLES & TESTS | | | | | | | ent |
| 12.84 | Depth Type Result (M)/kPa/ppm) | Wate | Reduced Level Legend | Depth (m) <u>(</u> Thick- ness) | DESCRIPTION | | | Instrume /Backfill |
| | Boring Progress and W Date Strike Casing depth | ater Cor | 12.84 | 0.10 | Grass over: Soft brown silt with abundant ro Soft brown clayey SILT. Rare subangular, fine Soft brown clayey SILT. Rare subangular, fine to coarse of flint subrounded to angular, fine to coarse of flint. Medium dense brown very clayey GRAVEL. Cangular, fine to coarse of SILT. | ty gravelly CLAY. Gott. Gravel is subangul y silty GRAVEL. Grafflint. | ar to very avel is | |
| 5. Densities based on engineers observation. | | | | | 5. Densities based on engineers observation. | l. | | |
| Method/ Plant Used Premier Compact Field Crew Oakland SI Coged By DRAFT | | | | | Field Crew L | Logged By | | |



| Project | | | | | HOLE No |
|---------------|------------------------|-------|-------------|-------------|---------|
| Cathedral Par | k, Drainage | | | | WS304 |
| Job No | VV33U4 | | | | |
| CG/28824 | 21-10-19 | 12.50 | E 488,069.6 | N 104,196.9 | |
| Client | | | | | Sheet |
| Hanbury Prop | erties (Chichester) Li | mited | | | 1 of 1 |

| Hanbury Properties | s (Chich | iester) Lim | ited | | | 1 of 1 |
|---------------------------------------|---------------------------|---|--|---|--|------------------------------------|
| SAMPLES & TESTS | _ | | | STRATA | | ent |
| Depth Type Result (M)/kPa/ppm) | Mater Leve | Legend | Depth (m) (Thick- ness) | DESCRIPTION | | Instrument Backfill |
| Boring Progress and Wa | 10 10 | 2.40 2.00 2.00 2.00 2.00 2.00 2.00 2.00 | (0.40) (0.50) (1.20) 1.70 (0.40) 2.10 (2.90) | Grass over: Soft brown silt with abundant roo Soft dark brown gravelly silt. Gravel is subrour coarse of flint, brick and tarmac. With subang Soft very silty slightly gravelly CLAY. Gravel is subangular to angular, fine Medium dense cream to beige clayey GRAVEL subangular, fine of flint. Medium dense to dense brown mottled beige Gravel is subangular to angular, fine to coarse (Window sample terminated at 5m) General Remarks | nded to angular, fular cobbles of ta subangular, fine of the cobbles of ta subangular, fine of the cobbles of t | of flint. |
| Date Strike Casing depth 21-10-19 3.6 | Wet soil in sampler | measureu | Standing Depth | 1. Window sample terminated at 5.0m bgl. 2. Wet soil was noted from 3.6m. 3. No in-situ testing undertaken. 4. Hole installed with: Top hat cover concrete 0.3m Plain 50mm pipe with bentonite seal; 0.filter pack; 3.3m to base collapsed granular so | and bentonite at 3m to 3.3m Slotte oil. | surface; 0.0m to ed with gravel |
| Method/ Plant Used Premier (| Compact | t | | 5. Densities based on engineers observation. | ogged By CGH | Checked By DRAFT |



| Project | | | | HOLE No |
|---------------|------------------------|-------|-----------------------|---------|
| Cathedral Par | k, Drainage | | | WS305 |
| Job No | W3303 | | | |
| CG/28824 | 21-10-19 | 12.90 | E 488,029.2 N 104,226 | 5.0 |
| Client | Sheet | | | |
| Hanbury Prop | erties (Chichester) Li | mited | | 1 of 1 |

| 11.50 1.40 Soft to firm very gravelly CLAY. Gravel is subangular to very angular, fine to medium of flint. 10.95 1.95 Medium dense brown very clayey GRAVEL. Gravel is subangular to very angular, fine to coarse of flint. | | Hai | nbury P | ropertie | s (C | chiche | ster) Lin | nited | | | 1 of 1 | |
|--|------------|--------------|------------|-------------------------------|------|----------------|---|-------------|---|---------------------------------|---------------------------------|-----------------------|
| 12.80 | Ī | SAMPI | LES & T | ESTS | | | | | STRATA | | 2 | ent |
| 12.80 | | Depth (m) | Type No | Test Result (N/kPa/ppm) | Wate | Reduce Leve | ≂u ₁ | (Thick- | DESCRIPTION | | 1 | Instrume /Backfill |
| Soft brown signtly gravely clayey SiL1. Gravel is subangular to angular, fine to medium of flint. 12.30 × × × × × × × × × × 0.60 Soft light brown very silty slightly gravely CLAY. Gravel is subrounded to subangular, fine to medium of flint. 11.50 | | | | | | 12.8 | 30 | , | Grass over: Soft brown slightly gravely silt. Gravel | l is subangula | | ÌÌ |
| 12.30 × × 0.60 Soft light brown very silty slightly gravely CLAY. Gravel is subrounded to subangular, fine to medium of flint. 11.50 - 0 | | | | | | | × × ° × | (0.50) | Soft brown slightly gravelly clayey SILT. Gravel is s | subangular to | angular, | |
| Soft light brown very silty slightly gravely CLAY. Gravel is subrounded to subangular, fine to medium of flint. 11.50 | ŀ | | | | | 12.3 | 1 | 0.60 | | | | |
| 11.50 3 1.40 10.95 1.95 10.95 2.50 10.40 2.52 2.50 Medium dense brown very clayey GRAVEL. Gravel is subangular to very angular, fine to medium of filmt. Medium dense brown very clayey GRAVEL. Gravel is subangular to very angular, fine to coarse of filmt. Medium dense brown very clayey GRAVEL. Gravel is subangular to very angular, fine to coarse of filmt. Medium dense brown very clayey GRAVEL. Gravel is subangular to very angular, fine to coarse of filmt. Medium dense to dense cream to beige sitly GRAVEL. Gravel is subrounded to angular, fine to coarse of filmt. 2.60 Filmt cobble -100mm diameter. (Window sample terminated at 5 m) General Remarks 21-10-19 3.9 Wet soil in Standing of the measured of | | · · | | | | | | - | Soft light brown very silty slightly gravely CLAY. G subangular, fine to medium of flint. | Gravel is subro | unded to | |
| Soft to firm very gravelly CLAY. Gravel is subangular to very angular, fine to medium of flint. 10.95 1.95 Medium dense brown very clayey GRAVEL. Gravel is subangular to very angular, fine to coarse of flint. | | _ | | | | | | (0.80) | | | | |
| 10.95 1.95 10.95 1.95 Medium dense brown very clayey GRAVEL. Gravel is subangular to very angular, fine to coarse of flint. | ŀ | | | | | 11.5 | 50 | 1.40 | | | | 目:: |
| 1.95 | | • | | | | | | (0.55) | Soft to firm very gravelly CLAY. Gravel is subangul to medium of flint. | llar to very an | gular, fine | |
| Medium dense brown very clayey GRAVEL. Gravel is subangular to very angular, fine to coarse of flint. 10.40 2.30 2.50 | - | | | | | | | - | | | | 1 |
| angular, fine to coarse of flint. 10.40 2.50 2.50 | ļ | - | | | | 10.9 | 0 — 0 | - 1.95 - | Medium dense brown very clayey GRAVEL. Grave | el is subangula | r to very | 1 |
| 10.40 2.50 2.50 Medium dense to dense cream to beige silty GRAVEL. Gravel is subrounded to angular, fine to coarse of flint. 2.60 Flint cobbie -100mm diameter. 2.60 Flint cobbie -100mm d | ļ | | | | | | 0-00 | (0.55) | angular, fine to coarse of flint. | | | |
| 10.40 2 2.50 Medium dense to dense cream to beige silty GRAVEL. Gravel is subrounded to angular, fine to coarse of filint. 2.60 Filint cobbile -100mm diameter. 2 | | | | | | | 000 | | | | | 1 |
| subrounded to angular, fine to coarse of flint. 2.60 Flint cobble –100mm diameter. (Vindow sample terminated at 5m) Sering Progress and Water Observations Date Strike depth depth depth depth depth Standing Depth Strike depth depth depth Strike depth depth Standing Depth Strike depth depth depth Strike depth depth Standing Depth Strike depth depth depth depth Standing Depth Strike depth depth depth depth depth depth depth Standing Depth Strike depth dep | h 202(| | | | | 10.4 | 101000 | 2.50 | Medium dense to dense cream to beige silty GRA | VEL. Gravel is | | |
| Boring Progress and Water Observations Boring Progress and Water Observations Date Strike depth depth depth depth depth with sampler Wet soil in sampler Wet soil in sampler Wet soil in sampler Wet soil in sampler Field Crew Oakland SI Coged By Checked By DRAFT Field Crew Oakland SI CogH CogH CogH CogH CogH CogH CogH CogH | Marc | | | | | | 8 Q 8 4 | - | subrounded to angular, fine to coarse of flint. 2.60 Flint cobble ~100mm diameter. | | | 目: |
| Total Companies Time Strike Casing Comment Time Standing Companies Compa | ate: 6 | | | | | | | - | | | | 1 |
| Section Progress and Water Observations Standing Depth | | - | | | | | x0 0x0 | _ | | | | 1 |
| Type | 7. 1.G | | | | | | 0×0° | _ | | | | 目 : |
| The control of the | GS4 | | | | | | | | | | | 1 |
| Top Comment | 킰 | | | | | | X | - | | | | |
| Boring Progress and Water Observations Boring Progress and Water Observations Date Strike Casing depth Gepth Gep | rary: | | | | 1 | | \$0 5 × 0 | (2.50) | | | | |
| Boring Progress and Water Observations Boring Progress and Water Observations Date Strike depth Casing depth depth depth Genth sampler 21-10-19 3.9 Wet soil in sampler Wet soil was noted from 3.9m. 3. No in-situ testing undertaken. 4. Hole installed with: Top hat cover concrete and bentonite at surface; 0.0m to 0.6m Plain 3mm pipe with bentonite seal; 0.6m to 3.6m Slotted with gravel filter pack; 3.6m to base collapsed granular soil. 5. Densities based on engineers observation. Wethod/ Plant Used Premier Compact Field Crew Oakland S1 Logged By Checked By DRAFT | <u></u> | | | | Ī | | x0 -x0 | | | | | |
| Topo | 25. | - | | | | | | | | | | |
| Soring Progress and Water Observations Standing depth Standing depth Standing land S | 2 | | | | | | % ⊗ % ¢ | - | | | | |
| Boring Progress and Water Observations Date Strike depth depth depth Gepth Sampler Wet soil in sampler Wet soil in sampler Method/ Plant Used Premier Compact Touch Strike Casing depth depth Strike depth Sampler (Window sample terminated at 5.0m bgl. 2. Wet soil was noted from 3.9m. 3. No in-situ testing undertaken. 4. Hole installed with: Top hat cover concrete and bentonite at surface; 0.0m to 0.6m Plain 38mm pipe with bentonite seal; 0.6m to 0.6m to 3.6m Slotted with gravel filter pack; 3.6m to base collapsed granular soil. 5. Densities based on engineers observation. Field Crew Oakland SI Logged By Checked By DRAFT | 뷥 | | | | | | 8 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | | |
| Topic Topi | ج ا | | | | | | 18 - 8 - | _ | | | | |
| T.90 Solution Strike Casing depth Comment measured Depth Standing Depth Depth Standing depth Comment in sampler Standing sampler Standing Depth Standing University | L'AK | • | | | | | ×0 × 0 | | | | \ <u>`</u> | |
| Boring Progress and Water Observations Date Strike Casing depth Comment Time measured Depth Depth | ÜRA | - | | | | 7.9 | 90 8 8 8 8 8 | 5.00 | (Window completerminated at Em) | | | |
| Date Strike Casing depth | ¥[| Roring D | roaress | and Ma | ater | . Ohse | rvation | <u> </u> | | | | |
| 21-10-19 3.9 Wet soil in sampler Wet soil sampler Wet soil be with gravel filter pack; 3.6m to base collapsed granular soil. 5. Densities based on engineers observation. 2. Wet soil was noted from 3.9m. 3. No in-situ testing undertaken. 4. Hole installed with: Top hat cover concrete and bentonite at surface; 0.0m to 0.6m Plain 38mm pipe with bentonite seal; 0.6m to 3.6m Slotted with gravel filter pack; 3.6m to base collapsed granular soil. 5. Densities based on engineers observation. Wet soil was noted from 3.9m. 3. No in-situ testing undertaken. 4. Hole installed with: Top hat cover concrete and bentonite at surface; 0.0m to 0.6m Plain 38mm pipe with bentonite seal; 0.6m to 3.6m Slotted with gravel filter pack; 3.6m to base collapsed granular soil. 5. Densities based on engineers observation. Field Crew Oakland SI Checked By DRAFT | 524B (| | Strike | | _ | | Time | | | | | |
| in sampler 4. Hole installed with: Top hat cover concrete and bentonite at surface; 0.0m t 0.6m Plain 38mm pipe with bentonite seal; 0.6m to 3.6m Slotted with gravel filter pack; 3.6m to base collapsed granular soil. 5. Densities based on engineers observation. Method/ Plant Used Premier Compact Field Crew Oakland SI CGH DRAFT | 2 782 | | | aeptn | - | | measurea | реріп | 2. Wet soil was noted from 3.9m. | | | |
| 5. Densities based on engineers observation. | roject: C | | | | saı | | | | II 4. Hole installed with: Top hat cover concrete and | d bentonite at to 3.6m Slott | surface; 0.0m ed with gravel | to |
| Method/ Field Crew Logged By Checked By Plant Used Premier Compact Oakland SI CGH DRAFT | 50 | | | | | | | | 5. Densities based on engineers observation. | | | |
| Method/ Field Crew Logged By Checked By Plant Used Premier Compact Oakland SI CGH DRAFT | WS L | | | | | | | | | | | |
| Method/ Field Crew Compact Checked By Oakland SI CGH DRAFT | CGL | | | | | | | | | | | |
| <u> </u> | Report ID: | | | Premier | Con | npact | | | Field Crew Logge Oakland SI | ed By CGH | Checked By DRAFT | |



| Project | | | | | HOLE No |
|---------------|------------------------|---------|---------------|-------------|---------|
| Cathedral Par | k, Drainage | | | | WS306 |
| Job No | | VV 3300 | | | |
| CG/28824 | 22-10-19 | 12.40 | E 487,969.8 N | l 104,217.5 | |
| Client | | Sheet | | | |
| Hanbury Prop | erties (Chichester) Li | mited | | | 1 of 1 |

| Hanbury Propertie | s (C | hichester) Limited | | | 1 of 1 |
|--|----------|--|---|--|--------------------------|
| SAMPLES & TESTS | _ | | STRATA | | ent |
| Depth Type Result | Water | Reduced Level Legend (Thick- ness) | DESCRIPTION | | Instrument //Backfill |
| - | | 12.30 0.10 | Grass over: Soft brown very clayey slightly c subrounded to subangular, fine to medium | gravelly silt. Gravel | is |
| | | × × × × × × × × × × × × × × × × × × × | Soft brown gravelly SILT. Gravel is subangul coarse of flint. | | |
| _ 1.20 B2.1 | | 11.10 × × 1.30 | | | <u></u> |
| | | (0.80) | Soft brown very gravelly CLAY. Gravel is sub to medium of flint. | angular to very ar | gular, fine |
| Boring Progress and Wardenth Strike depth 22-10-19 2.9 Method/ Plant Used Premier | | 10.30 2.10 × × × × × × × × × (0.70) | Soft cream to beige very gravelly SILT. Graviangular, fine to medium of flint. | el is subrounded to | o very |
| - | | × × × × × × × × × × | | | |
| | ± | 9.60 × × 2.80 | Medium dense brown silty GRAVEL. Subrou coarse of flint. Gravel is subangular to angu | inded to angular, f | ne to |
| - - - - - - | = | 8.70 % % 4 (0.90) | | | |
| 3.80 ES | | | Medium dense to dense white mottled grey subangular to angular, fine to medium of fli | very silty GRAVEL nt. | . Gravel is |
| | | 8.40 0 4.00 | 3.80 Grey staining with mild hydrocarbon o (Window sample terminated at 4m) | uoui . | |
| Boring Progress and Wa | iter | | General Remarks | | • |
| Date Strike depth depth 22-10-19 2.9 | Cor | mment Time Standing Depth et soil in mpler | Window sample terminated at 4.0m to prontamination pathway. Wet soil was noted from 2.9m. No in-situ testing undertaken. Hole installed with: Top hat cover concre 0.7m Plain 38mm pipe with bentonite seal; filter pack; 2.7m to base collapsed granular 5. Densities based on engineers observation | te and bentonite a 0.7m to 2.7m Slot soil. | |
| Method/ Plant Used Premier | Con | npact | Field Crew Oakland SI | Logged By CGH | Checked By DRAFT |



| Project | | | | | HOLE No |
|---------------|------------------------|------------------|------------------|-------------|---------|
| Cathedral Par | k, Drainage | | | | WS307 |
| Job No | Date | Ground Level (m) | Co-Ordinates (m) | | VV3307 |
| CG/28824 | 22-10-19 | 11.83 | E 487,909.1 | N 104,172.5 | |
| Client | | | | | Sheet |
| Hanbury Prop | erties (Chichester) Li | mited | | | 1 of 1 |

| Hanbury Propertie | s (C | nicnester) Lii | nited | | | 1 of 1 |
|--|----------|--|-------------------------------|--|--|-------------------------|
| SAMPLES & TESTS | 3F | | | STRATA | | Jent II |
| Depth Type Result No (N/kPa/ppm) | Water | Reduced Level Legend | Depth (m) (Thick- ness) | DESCRIPTION | | Instrument /Backfill |
| Boring Progress and Wa Date Strike depth 22-10-19 1.95 Method/ Plant Used Premier | → | 11.53 10.43 10 | (1.20) | Grass over: Soft brown gravely silt. Gravel is fine to medium of flint. Medium dense brown clayey silty GRAVEL. Gangular, fine to coarse of flint. With occasion cobbles of flint. Soft white to beige very gravelly SILT. Gravel to medium of flint. Medium dense light brown clayey GRAVEL. Gangular, fine to coarse of flint. Medium dense to dense cream silty GRAVEL. angular, fine to coarse of flint. (Window sample terminated at 4m) | Gravel is subrounded to | ngular, fine |
| Boring Progress and Wa | | Time o | | General Remarks | | |
| Date Strike depth depth 22-10-19 1.95 | We | mment Time measured et soil in mpler | Standing Depth | Window sample terminated at 4.0m due to 2. Wet soil was noted from 1.95m. No in-situ testing undertaken. Hole installed with: Top hat cover concrete 0.2m Plain 38mm pipe with bentonite seal; 0 filter pack; 2.2m to base collapsed granular s 5. Densities based on engineers observation. | e and bentonite at 0.2m to 2.2m Slotto soil. | surface; 0.0m to |
| Method/ | _ | l | | Field Crew L | Logged By | Checked By |
| Plant Used Premier | Con | npact | | Oakland SI | CGH | DRAFT |



| Project | | | | | HOLE No |
|---------------|------------------------|------------------|------------------|-------------|---------|
| Cathedral Par | k, Drainage | | | | WS308 |
| Job No | Date | Ground Level (m) | Co-Ordinates (m) | | VV3300 |
| CG/28824 | 22-10-19 | 12.15 | E 487,850.7 | N 104,169.8 | |
| Client | | | | | Sheet |
| Hanbury Prop | erties (Chichester) Li | mited | | | 1 of 1 |

| Ha | nbury P | ropertie | es (C | chiches | ter) Lin | nited | | 1 of 1 | |
|--|------------|-------------------------------|-------|------------------|---|-------------------------------|---|--|-------------------------|
| SAMP | LES & T | ESTS | _ | | | | STRATA | | ent |
| Depth (m) | Type No | Test Result (N/kPa/ppm) | Water | Reduced Level | Legend | Depth (m) (Thick- ness) | | | Instrument /Backfill |
| - | | | | 11.75 | | (0.40) | Weeds and scrub over: Soft brown gravelly silt. Gravel is subangular, fine to coarse of flint and brick. With occasion | | |
| - | | | | 11.75 | * O × O × O × O × O × O × O × O × O × O | - (1.60) | Loose to medium dense brown silty GRAVEL. Gravel is si subangular, fine to coarse of flint. With frequent subrou subangular cobbles of flint. | Jbrounded to nded to | |
| - | | | | 10.15 | * 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 | 1 I | 1.50 Becoming slightly silty. | | |
| ŀ | | | | | | - | (Window sample terminated at 2m) | | |
| CGL WS LOG Project: CG_28824B CATHEDRAL PARK, CHICHETSTER.GPJ Library: CGL_AGS4_R1.GLB Date: 9 March 2020 | | | | | | | | | |
| 胃 Boring P | rogross | and W | ator | Obsor | vations | <u> </u> | General Remarks | | |
| Date | Strike | Casing depth | _ | | Time neasured | | Window sample terminated at 2.0m due to repeated | collapse below 1 Or | m. |
| O: CGL WS LOG Project: CG_288 | depth | depth | | n n | neasured | Depth | Groundwater was not encountered during the excava 3. No in-situ testing undertaken. Hole installed with: Top hat cover concrete and bento 0.1m Plain 38mm pipe with bentonite seal; 0.1m to 1.1r filter pack; 1.1m to base collapsed granular soil. Densities based on engineers observation. | nite at surface; 0.0 n Slotted with grave | m to el |
| Method/ Plant Used | | Premier | Con | npact | | | Field Crew Oakland SI Logged By CGH | Checked By DRAF | / T |



| Project | | | | | HOLE No |
|----------------|------------------------|------------------|------------------|-------------|---------|
| Cathedral Parl | k, Drainage | | | | WS309 |
| Job No | Date | Ground Level (m) | Co-Ordinates (m) | | VV3309 |
| CG/28824 | 22-10-19 | 11.80 | E 487,847.0 | N 104,233.1 | |
| Client | | | | | Sheet |
| Hanbury Prop | erties (Chichester) Li | mited | | | 1 of 1 |

| Hanbury Propertie | es (C | Chichester) Li | mited | | | 1 of 1 |
|---|-----------|------------------------|---|--|---|--------------------------|
| SAMPLES & TESTS | _ | | | STRATA | | ent |
| Depth Type Result (N/kPa/ppm) | Water | Reduced Level Legen | Depth (m) (Thick- ness) | DESCRIPTION | | Instrument //Backfill |
| Boring Progress and Ware Strike Casing depth 22-10-19 2.1 | ater Co W | 11.60 | 0.20 0.70 0.90 0.90 0.90 0.90 0.90 0.90 0.9 | General Remarks 1. Window sample terminated at 4.0m due 2. Wet soil was noted from 2.1m. 3. No in-situ testing undertaken. 4. Hole instituted with: 2.1m due 2. Wet soil was noted from 2.1m. 5. No in-situ testing undertaken. 6. Hole institutes and in the properties of the properti | to dense granular rete and bentonite at soil. | EL. Gravel n to coarse. |
| Method/ Plant Used Premier | Cor | mpact | | Field Crew Oakland SI | Logged By CGH | Checked By DRAFT |
| Tremier | 001 | праст | | Oukland 51 | 0011 | Divili |



| Project | | | | | HOLE No |
|---------------|------------------------|------------------|------------------|-------------|----------|
| Cathedral Par | k, Drainage | | | | WS310 |
| Job No | Date | Ground Level (m) | Co-Ordinates (m) | | VV 33 TU |
| CG/28824 | 22-10-19 | 12.49 | E 487,861.4 | N 104,331.5 | |
| Client | | | | | Sheet |
| Hanbury Prop | erties (Chichester) Li | mited | | | 1 of 1 |

| Hanbury Prop | perties (C | Chichester) Limited | | | 1 of 1 |
|---------------------------|--------------------|--|--|---|---------------------|
| SAMPLES & TEST | TS _ | | STRATA | | ent |
| | Test tesult A | Reduced Legend (Thick- ness) | DESCRIPTION | | nstrum /Backfill |
| Donth Type | Test $\frac{1}{2}$ | Reduced Legend (Thick-ness) 12.29 | Grass over: Soft brown gravelly silty clay. Grav subangular, fine to medium of flint and brick. Soft brown gravelly silty CLAY. Gravel is subrot coarse of flint. Medium dense to dense light brown/beige silt subangular to angular, fine to coarse of flint. S 2.20 Becoming light brown. | unded to angular, | fine to |
| Boring Progress an | Casing Cor | Observations mment Time Measured Standing Depth let soil in mpler Time Measured Standing Depth Time Measured Standing St | (Window sample terminated at 4m) General Remarks 1. Window sample terminated at 4.0m due to 2. Wet soil was noted from 3.0m. 3. No in-situ testing undertaken. 4. Hole installed with: Top hat cover concrete 0.5m Plain 38mm pipe with bentonite seal; 0.5 filter pack; 3.0m to base collapsed granular so 5. Densities based on engineers observation. | and bentonite at som to 3.0m Slotter il. | surface; 0.0m to |
| Method/ Plant Used Pre | emier Con | mpact | Field Crew Lo Oakland SI | gged By CGH | Checked By DRAFT |



| Project | | | | HOLE No |
|----------------|------------------------|------------------|----------------------|---------|
| Cathedral Parl | WS311 | | | |
| Job No | Date | Ground Level (m) | Co-Ordinates (m) | VV3311 |
| CG/28824 | 22-10-19 | 12.87 | E 487,927.5 N 104,33 | 38.9 |
| Client | | | | Sheet |
| Hanbury Prop | erties (Chichester) Li | mited | | 1 of 1 |

| Hanbury Propert | es (C | nicnest | ter) Lin | nited | | | 1 of 1 |
|---|----------|------------------|------------------|-------------------------------|---|--|-------------------------|
| SAMPLES & TESTS | | | | | STRATA | | nent |
| Depth Type Resul (M/kPa/pp | Water | Reduced Level | Legend | Depth (m) (Thick- ness) | DESCRIPTION | | Instrument /Backfill |
| - | | 12.47 | | - (0.40) - 0.40 | Grass over: Soft brown silty slightly gravelly subangular, fine to medium of flint and rare | e brick. | ounded to |
| | | | | (0.90) | Soft brown silty very gravelly CLAY. Gravel i to coarse of flint. | s subangular to ang | ular, fine |
| | | 11.57 | 0.00 | 1.30 | Medium dense to dense light brown very cl subangular to very angular, fine to coarse o | ayey sandy GRAVEL | Gravel is |
| - - - - - - - | | | | - | coarse. | n Hint. Sand is medi | |
| - | | | | (2.70) | 2.40 Becoming clayey. | | |
| - - - - - - - - | <u>_</u> | 8.87 | | 4.00 | | | |
| - | | | | - | (Window sample terminated at 4m) | | |
| Boring Progress and V Date Strike depth depth 22-10-19 3.5 Method/ Plant Used Premie | | | | - - - - - - | | | |
| Boring Progress and V | | Observ | | | General Remarks | | |
| Date Strike Casing depth 22-10-19 3.5 | Co | mmont | Time neasured | Standing Depth | Window sample terminated at 4.0m due 2. Wet soil was noted from 3.5m. No in-situ testing undertaken. Hole installed with: Top hat cover concre 0.1m Plain 38mm pipe with bentonite seal; filter pack; 3.1m to base collapsed granular 5. Densities based on engineers observation | ete and bentonite at 0.1m to 3.1m Slotto soil. | surface: 0.0m to |
| Method/ Plant Used Premie | r Car | nnact | | | Field Crew Cokland SI | Logged By | Checked By |
| Plant Used Premie | ı cor | прасі | | | Oakland SI | CGH | DRAFT |



| Project | | | | | HOLE No |
|---------------|------------------------|------------------|------------------|-------------|---------|
| Cathedral Par | k, Drainage | | | | WS312 |
| Job No | Date | Ground Level (m) | Co-Ordinates (m) | | VV3312 |
| CG/28824 | 22-10-19 | 12.90 | E 487,988.5 | N 104,295.8 | |
| Client | | | | | Sheet |
| Hanbury Prop | erties (Chichester) Li | mited | | | 1 of 1 |

| Hanbury Properti | es (C | Chichester) Limited | | | 1 of 1 |
|--|-------|--|--|--|--------------------------|
| SAMPLES & TESTS | _ | | STRATA | | ent |
| Depth Type Result (N/KPa/ppm | Water | Reduced Legend (Thick- ness) | DESCRIPTION | | Instrument //Backfill |
| Boring Progress and Warehold Barbara Strike depth dept | Co | 11.90 1.00 11.90 1.00 11.30 1.00 11.30 1.00 11.30 1.00 10.00 | Soft silty slightly gravelly CLAY. Gravel is submedium of flint. Medium dense light brown very clayey sand subangular to very angular, fine to coarse of coarse. 1.90 Becoming clayey. | to dense granular to dense granular is and bentonite at 0.1m to 3.1m Slott soil. | is ium to |
| Method/ Plant Used Premie | r Cor | mpact | Field Crew Oakland SI | Logged By CGH | Checked By DRAFT |
| . I TOTTILE | 501 | paot | Juniuriu Ji | 3011 | וואוע |

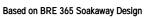


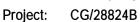
| Project | | | | | HOLE No |
|---|-------------|------------------|------------------|-------------|---------|
| Cathedral Parl | k, Drainage | | | | WS313 |
| Job No | Date | Ground Level (m) | Co-Ordinates (m) | | VV3313 |
| CG/28824 | 22-10-19 | 12.60 | E 487,906.8 | N 104,249.5 | |
| Client | | | | | Sheet |
| Hanbury Properties (Chichester) Limited | | | | | 1 of 1 |

| Grass over soft brown gravelly sitt. Gravel is subrounded to subangular, fine to medium of fint. 100 | Hanbury Propertie | 3) Sŧ | Chichester) Lin | nited | | | 1 of 1 |
|--|-----------------------------------|----------------|-------------------------|--|---|----------------------------------|---|
| Grass over: soft brown gravelly silt. Gravel is subrounded to subangular, fine to medium of flint. [TOPSOIL] Soft light brown very gravelly CLAY. Gravel is subangular to angular, fine to coarse of flint. [ALLUVIAL FAN DEPOSITS] 11.00 — 1.60 Medium dense to dense light brown to beige very clayey GRAVEL. Gravel is subangular to very angular, fine to medium of flint. [RIVER TERRACE DEPOSITS] 1.90 Becoming clayey. | SAMPLES & TESTS | _ | | | STRATA | | ent |
| Grass over: soft brown gravelly silt. Gravel is subrounded to subangular, fine to medium of flint. [TOPSOIL] Soft light brown very gravelly CLAY. Gravel is subangular to angular, fine to coarse of flint. [ALLUVIAL FAN DEPOSITS] 11.00 1.60 Medium dense to dense light brown to beige very clayey GRAVEL. Gravel is subangular to very angular, fine to medium of flint. [RIVER TERRACE DEPOSITS] 1.90 Becoming clayey. | Depth (m) Type Result (N/kPa/ppm) | Wate | Reduced Level Legend | Depth (m) (Thick- ness) | DESCRIPTION | | Instrume //Backfill |
| Inter pack; 2.1m to base collapsed granular soll. 5. Densities based on engineers observation. 5. Densities based on engineers observation. 6. Densities based | | ater Connumber | 12.20 | (0.40) 0.40 1.60 1.60 4.00 | fine to medium of flint. [TOPSOIL] Soft light brown very gravelly CLAY. Gravel to coarse of flint. [ALLUVIAL FAN DEPOSITS] Medium dense to dense light brown to beig is subangular to very angular, fine to mediu [RIVER TERRACE DEPOSITS] 1.90 Becoming clayey. (Window sample terminated at 4.0m due 2. Wet soil was noted from 2.4m. 3. No in-situt testing undertaken. 4. Hole installed with: Top hat cover concret. | ge very clayey GRAV im of flint. | gular, fine /EL. Gravel material. t surface: 0.0m to |
| | | | | | filter pack; 2.1m to base collapsed granular 5. Densities based on engineers observation | soil. n. | 5 |
| Method/ Field Crew Logged By Checked By | | <u>L</u> | | | | | I a |
| Begin Plant Used Premier Compact Oakland SI CGH DRAFT | Method/ Plant Used Premier | Con | npact | | | Logged By CGH | |

APPENDIX B

Soakage test results

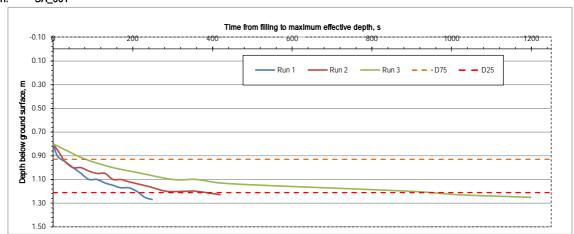




Client: Hanbury Eng: ELD/SM Checker NJL

Project: Cathedral Park, Chichester - Drainage Date: 29/01/20

Location: SA_301



| | <u>Run i</u> |
|----------------|--------------|
| Pit Length (m | 3.00 |
| Pit Width (m): | 0.60 |
| Pit Depth (m): | 1.30 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (rr | 3.00 |
| Pit Width (m): | 0.60 |
| Pit Depth (m): | 1.35 |

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (rr | 3.00 |
| Pit Width (m): | 0.60 |
| Pit Depth (m): | 1.35 |

CGL

| Effective Dept | 0.50 | |
|---------------------------------------|------|------|
| D ₇₅ (m) | | 0.93 |
| D ₂₅ (m) | | 1.18 |
| V _{p75-25} (m ³) | | 0.45 |
| * p75*25 (*** 7 | | |

| ET | Effective Depth | | 0.55 |
|----------------|-------------------------------------|--|------|
| | ₇₅ (m) | | 0.94 |
| D ₂ | ₂₅ (m) | | 1.21 |
| | ₂₇₅₋₂₅ (m ³) | | 0.50 |
| | | | |
| | | | |

| Effective Depth | 0.55 | |
|---------------------------------------|------|------|
| D ₇₅ (m) | | 0.94 |
| D ₂₅ (m) | | 1.21 |
| V _{p75-25} (m ³) | | 0.50 |

| t ₇₅ (s) | 18.333333 |
|------------------------------------|-----------|
| t ₂₅ (s) | 193.33333 |
| t _{p75-25} (s) | 175 |
| a _{p50} (m ²) | 3.6 |
| | |
| Infiltration Rate (m/s): | 7.14E-0 |

| t ₇₅ (s) | 28 |
|------------------------------------|-----------|
| t ₂₅ (s) | 385 |
| t _{p75-25} (s) | 357.5 |
| a _{p50} (m ²) | 3.78 |
| | |
| Infiltration Rate (m/s) | : 3.66E-0 |

| t ₇₅ (s) | 88 |
|------------------------------------|---------|
| t ₂₅ (s) | 950 |
| t _{p75-25} (s) | 861.875 |
| a _{p50} (m ²) | 3.78 |
| | |
| Infiltration Rate (m/s): | 1.52E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.80 |
| 0.16 | 10 | 0.90 |
| 0.33 | 20 | 0.93 |
| 0.50 | 30 | 0.95 |
| 0.83 | 50 | 1.00 |
| 1.16 | 70 | 1.05 |
| 1.50 | 90 | 1.10 |
| 1.83 | 110 | 1.10 |
| 2.16 | 130 | 1.13 |
| 2.50 | 150 | 1.15 |
| 2.83 | 170 | 1.17 |
| 3.16 | 190 | 1.17 |
| 3.50 | 210 | 1.20 |
| 3.83 | 230 | 1.25 |
| 4.16 | 250 | 1.27 |
| | | |
| | | |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0.00 | 0.80 |
| 0.16 | 10.00 | 0.85 |
| 0.33 | 20.00 | 0.90 |
| 0.50 | 30.00 | 0.95 |
| 0.83 | 50.00 | 1.00 |
| 1.16 | 70.00 | 1.00 |
| 1.50 | 90.00 | 1.03 |
| 1.83 | 110.00 | 1.05 |
| 2.16 | 130.00 | 1.05 |
| 2.50 | 150.00 | 1.10 |
| 2.83 | 170.00 | 1.10 |
| 3.16 | 190.00 | 1.12 |
| 4.00 | 240.00 | 1.16 |
| 4.75 | 285.00 | 1.20 |
| 5.50 | 330.00 | 1.20 |
| 6.00 | 360.00 | 1.20 |
| 7.00 | 420.00 | 1.23 |
| 9.0 | 940 | 1.27 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0.00 | 0.80 |
| 0.50 | 30.00 | 0.85 |
| 1.00 | 60.00 | 0.90 |
| 1.50 | 90.00 | 0.94 |
| 2.50 | 150.00 | 1.00 |
| 3.50 | 210.00 | 1.04 |
| 5.00 | 300.00 | 1.10 |
| 6.00 | 360.00 | 1.10 |
| 7.00 | 420.00 | 1.13 |
| 10.00 | 600.00 | 1.16 |
| 15.00 | 900.00 | 1.20 |
| 17.00 | 1020.00 | 1.23 |
| 20.00 | 1200.00 | 1.25 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

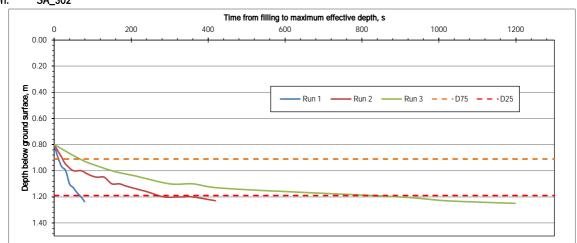
Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury Eng: ELD / SMS Checker NJI

Project: Cathedral Park, Chichester - Drainage Date: 29/01/20

Location: SA_302



| | <u>kun i</u> |
|----------------|--------------|
| Pit Length (n | 3.00 |
| Pit Width (m): | 0.80 |
| Pit Depth (m): | 1.30 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (n | 3.00 |
| Pit Width (m): | 0.80 |
| Pit Depth (m): | 1.30 |

0.45 0.96

1.19

Effective Depth

D₇₅ (m) D₂₅ (m)

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (n | 3.00 |
| Pit Width (m): | 0.80 |
| Pit Depth (m): | 1.25 |

CGL

| Ellective Depth | | 0.50 |
|---------------------------------------|--|------------------|
| D ₇₅ (m) | | 0.93 |
| D ₂₅ (m) | | 1.18 |
| V _{p75-25} (m ³) | | 0.60 |
| | | |
| t ₇₅ (s) | | <i>68.785714</i> |
| t ₂₅ (s) | | 61.6 |

| V _{p75-25} (m³) | | 0.54 |
|------------------------------------|--|---------|
| | | |
| t ₇₅ (s) | | 24 |
| t ₂₅ (s) | | 103 |
| t _{p75-25} (s) | | 79 |
| a _{p50} (m ²) | | 4.11 |
| | | |
| Infiltration Rate (m/s) | | 1.66F-0 |

| Effective Depth | | 0.45 |
|--------------------------------|--|------|
| D ₇₅ (m) | | 0.91 |
| D ₂₅ (m) | | 1.14 |
| V_{p75-25} (m ³) | | 0.54 |

| ₅ (s) | | 68.785714 | t ₇₅ (s) |
|----------------------------------|----------|------------------|---------------------|
| ₅ (s) | | 61.6 | t ₂₅ (s) |
| ₇₅₋₂₅ (s) | | <i>-7.185714</i> | t _{p75-25} |
| ₅₅₀ (m ²) | | 4.3 | a _{p50} (r |
| | | | |
| filtration Rat | e (m/s): | -1.94E-0 | Infiltra |
| | | | |

| t ₇₅ (s) | 18 |
|------------------------------------|------------------|
| t ₂₅ (s) | 109 |
| t _{p75-25} (s) | 91 |
| a _{p50} (m ²) | 4.11 |
| | |
| Infiltration Rate (m/s) | : <u>1.45E-0</u> |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.80 |
| 0.16 | 9.6 | 0.90 |
| 0.33 | 19.8 | 0.97 |
| 0.50 | 30 | 1.00 |
| 0.66 | 39.6 | 1.10 |
| 0.83 | 49.8 | 1.13 |
| 1.00 | 60 | 1.17 |
| 1.16 | 69.6 | 1.20 |
| 1.33 | 79.8 | 1.24 |
| 1.50 | 90 | 1.28 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.85 |
| 0.16 | 9.6 | 0.90 |
| 0.33 | 19.8 | 0.95 |
| 0.50 | 30 | 0.98 |
| 0.66 | 39.6 | 1.00 |
| 0.83 | 49.8 | 1.05 |
| 1.00 | 60 | 1.07 |
| 1.16 | 69.6 | 1.10 |
| 1.33 | 79.8 | 1.14 |
| 1.50 | 90 | 1.16 |
| 1.66 | 99.6 | 1.18 |
| 1.83 | 109.8 | 1.20 |
| 2.00 | 120 | 1.24 |
| 2.16 | 129.6 | 1.28 |
| | | |
| | | |

| Time - (ma) | Time - (-) | Double (no) |
|-------------|------------|-------------|
| Time (m) | Time (s) | Depth (m) |
| 0.00 | 0 | 0.80 |
| 0.16 | 9.6 | 0.88 |
| 0.33 | 19.8 | 0.92 |
| 0.50 | 30 | 0.94 |
| 0.66 | 39.6 | 0.96 |
| 0.83 | 49.8 | 0.98 |
| 1.00 | 60 | 1.00 |
| 1.16 | 69.6 | 1.04 |
| 1.33 | 79.8 | 1.07 |
| 1.50 | 90 | 1.09 |
| 1.66 | 99.6 | 1.12 |
| 1.83 | 109.8 | 1.14 |
| 2.16 | 129.6 | 1.19 |
| 2.50 | 150 | 1.22 |
| 2.83 | 169.8 | 1.27 |
| | | |



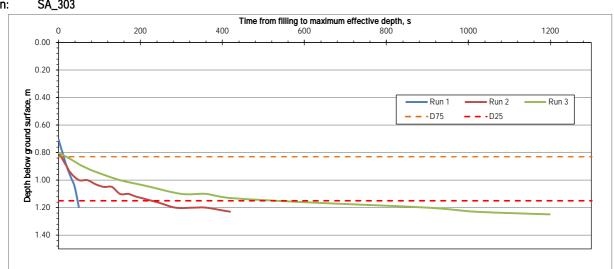
Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury Eng: ELD / SMS Checker: NJL

Project: Cathedral Park, Chichester - Drainage Date: 29/01/20

Location: SA_303



| | Rulli |
|-----------------|-------|
| Pit Length (m): | 3.50 |
| Pit Width (m): | 0.75 |
| Pit Depth (m): | 1.20 |

| | <u>Run 2</u> |
|-----------------|--------------|
| Pit Length (m): | 3.50 |
| Pit Width (m): | 0.75 |
| Pit Depth (m): | 1.25 |

| | Ruii 3 |
|-----------------|--------|
| Pit Length (m): | 3.50 |
| Pit Width (m): | 0.75 |
| Pit Depth (m): | 1.22 |

| Effective Depth (| | 0.50 |
|---------------------------------------|--|------|
| D ₇₅ (m) | | 0.83 |
| D ₂₅ (m) | | 1.08 |
| V _{p75-25} (m ³) | | 0.66 |

| t ₇₅ (s) | | <i>12.15</i> |
|--|--|--------------|
| t ₇₅ (s) t ₂₅ (s) | | 41.30 |
| t _{p75-25} (s) | | <i>29.15</i> |
| a _{p50} (m ²) | | <i>4.75</i> |
| | | |
| Infiltration Rate (m/s): | | 4.74E-0 |

| Effective Depth (| 0.40 |
|---------------------------------------|------|
| D ₇₅ (m) | 0.95 |
| D ₂₅ (m) | 1.15 |
| V _{p75-25} (m ³) | 0.53 |
| | |

| t ₇₅ (s) | | 20 |
|------------------------------------|--|-----------------|
| t ₂₅ (s) | | 114 |
| t _{p75-25} (s) | | 94 |
| a _{p50} (m ²) | | 4.325 |
| | | |
| Infiltration Rate (m/s): | | <u>1.29E-0:</u> |

| Effective Depth (| 0.42 |
|---------------------------------------|------|
| D ₇₅ (m) | 0.91 |
| D ₂₅ (m) | 1.12 |
| V _{p75-25} (m ³) | 0.55 |
| | |

| t ₇₅ (s) | | 21 |
|------------------------------------|--|-----------|
| t ₂₅ (s) | | <i>75</i> |
| t _{p75-25} (s) | | <i>54</i> |
| a _{p50} (m ²) | | 4.41 |
| | | |
| Infiltration Rate (m/s): | | 2.33E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.70 |
| 0.16 | 9.6 | 0.80 |
| 0.33 | 19.8 | 0.90 |
| 0.50 | 30 | 0.98 |
| 0.66 | 39.6 | 1.05 |
| 0.83 | 49.8 | 1.20 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0.00 | 0.85 |
| 0.16 | 9.60 | 0.90 |
| 0.33 | 19.80 | 0.95 |
| 0.50 | 30.00 | 0.98 |
| 0.66 | 39.60 | 1.00 |
| 0.83 | 49.80 | 1.04 |
| 1.00 | 60.00 | 1.05 |
| 1.16 | 69.60 | 1.07 |
| 1.33 | 79.80 | 1.09 |
| 1.66 | 99.60 | 1.10 |
| 2.00 | 120.00 | 1.17 |
| 2.33 | 139.80 | 1.20 |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0.00 | 0.80 |
| 0.16 | 9.60 | 0.85 |
| 0.33 | 19.80 | 0.90 |
| 0.50 | 30.00 | 0.94 |
| 0.66 | 39.60 | 0.98 |
| 0.83 | 49.80 | 1.00 |
| 1.00 | 60.00 | 1.08 |
| 1.16 | 69.60 | 1.10 |
| 1.33 | 79.80 | 1.13 |
| 1.50 | 90.00 | 1.17 |
| 1.66 | 99.60 | 1.19 |
| 1.83 | 109.80 | 1.20 |
| 2.00 | 120.00 | 1.20 |
| | | |

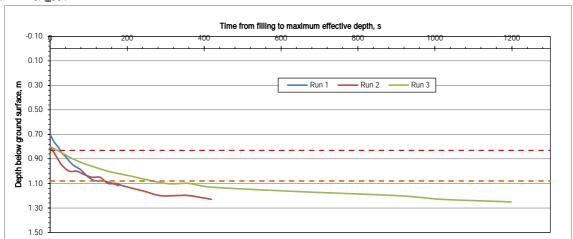


Project: CG/28824B

Client: Hanbury Eng: ELD / SMS Checker NJI

Project: Cathedral Park, Chichester - Drainage Date: 29/01/20

Location: SA_304



| | <u>Ruii i</u> |
|----------------|---------------|
| Pit Length (n | 2.70 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.20 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (n | 2.70 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.20 |

0.40

0.90

1.10

Effective Depth

D₇₅ (m)

D₂₅ (m)

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (n | 2.70 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.20 |

CGL

| Effective Depth | | 0.50 |
|--------------------------------|--|-------|
| D ₇₅ (m) | | 0.83 |
| D ₂₅ (m) | | 1.08 |
| V_{p75-25} (m ³) | | 0.47 |
| | | |
| t ₇₅ (s) | | 24.9 |
| t ₂₅ (s) | | 116.6 |
| | | |

91.7 3.59

t_{p75-25} (s)

 a_{p50} (m²)

Infiltration Rate (m/s):

| V _{p75-25} (m ³) | 0.38 |
|---------------------------------------|--------|
| | |
| t ₇₅ (s) | 22 |
| t ₂₅ (s) | 240 |
| t _{p75-25} (s) | 217.65 |
| a _{p50} (m ²) | 3.25 |
| | |

| Effective Depth | 0.40 |
|--|------|
| D ₇₅ (m) | 0.90 |
| D ₂₅ (m) | 1.10 |
| V _{275, 25} (m ³) | 0.38 |

| t ₇₅ (s) | | 22 |
|------------------------------------|--|-------------|
| t ₂₅ (s) | | 240 |
| t _{p75-25} (s) | | 217.65 |
| a _{p50} (m ²) | | <i>3.25</i> |
| | | |
| Infiltration Rate (m/s): | | 5.34E-0 |

| t ₇₅ (s) | | 40 |
|------------------------------------|------------|---------|
| t ₂₅ (s) | | 540 |
| t _{p75-25} (s) | | 500.4 |
| a _{p50} (m ²) | | 3.25 |
| | | |
| Infiltration R | ate (m/s): | 2.32E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.70 |
| 0.16 | 9.6 | 0.76 |
| 0.33 | 19.8 | 0.80 |
| 0.50 | 30 | 0.85 |
| 0.66 | 39.6 | 0.88 |
| 0.83 | 49.8 | 0.92 |
| 1.00 | 60 | 0.95 |
| 1.16 | 69.6 | 0.97 |
| 1.33 | 79.8 | 0.99 |
| 1.66 | 99.6 | 1.05 |
| 2.00 | 120 | 1.08 |
| 2.33 | 139.8 | 1.08 |
| 3 | 180 | 1.12 |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.80 |
| 0.16 | 9.6 | 0.85 |
| 0.33 | 19.8 | 0.89 |
| 0.50 | 30 | 0.93 |
| 0.66 | 39.6 | 0.95 |
| 0.83 | 49.8 | 0.97 |
| 1.00 | 60 | 0.99 |
| 1.33 | 79.8 | 1.00 |
| 1.66 | 99.6 | 1.03 |
| 2.00 | 120 | 1.05 |
| 2.50 | 150 | 1.06 |
| 3.00 | 180 | 1.07 |
| 5.00 | 300 | 1.13 |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.80 |
| 0.16 | 9.6 | 0.83 |
| 0.33 | 19.8 | 0.86 |
| 0.50 | 30 | 0.88 |
| 0.66 | 39.6 | 0.90 |
| 0.83 | 49.8 | 0.92 |
| 1.00 | 60 | 0.94 |
| 1.50 | 90 | 0.96 |
| 2.00 | 120 | 0.98 |
| 3.00 | 180 | 1.03 |
| 4.00 | 240 | 1.03 |
| 6.00 | 360 | 1.05 |
| 8.00 | 480 | 1.08 |
| 9.00 | 540 | 1.10 |
| | | |

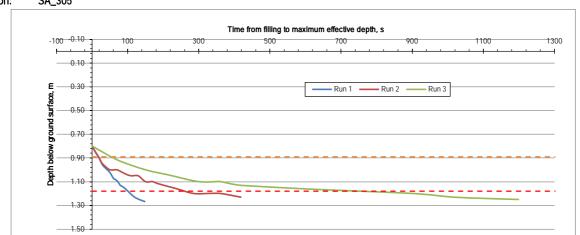
Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury Eng: ELD / SM Checker NJL

Project: Cathedral Park, Chichester - Drainage Date: 29/01/20

Location: SA_305



| | <u>Run i</u> |
|----------------|--------------|
| Pit Length (rr | 2.80 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.30 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (rr | 2.80 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.25 |

0.91

1.14 0.44

| | Run 3 |
|----------------|-------|
| Pit Length (m | 2.80 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.30 |

CGL

| Effective Depti | h | 0.50 |
|---------------------------------------|---|------|
| D ₇₅ (m) | | 0.93 |
| D ₂₅ (m) | | 1.18 |
| V _{p75-25} (m ³) | | 0.49 |

 t_{75} (s) t_{25} (s) t_{p75-25} (s) a_{p50} (m²)

Infiltration Rate (m/s):

| 0.49 | V _{p75-25} (m ⁻) | | |
|---------|---------------------------------------|-------------|--|
| | | | |
| 24.05 | t ₇₅ (s) | | |
| 99.375 | t ₂₅ (s) | | |
| 75.325 | t _{p75-25} (s) | | |
| 3.71 | a _{p50} (m ²) | | |
| | | | |
| 1.75E-0 | Infiltration F | Rate (m/s): | |

Effective Depth D₇₅ (m)

D₂₅ (m)

| Effective Depth | 0.55 |
|---------------------------------------|------|
| D ₇₅ (m) | 0.89 |
| D ₂₅ (m) | 1.16 |
| V _{p75-25} (m ³) | 0.54 |

| | 28.0875 | t ₇₅ (s) | 35.6 |
|--------|----------------|------------------------------------|------------------|
| | <i>118.725</i> | t ₂₅ (s) | 161.3 |
| | 90.6375 | t _{p75-25} (s) | 125.7 |
| | <i>3.535</i> | a _{p50} (m ²) | 3.885 |
| | | | |
| (m/s): | 1.38E-0; | Infiltration Rate (m/s): | <u>1.10E-0</u> ; |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.80 |
| 0.16 | 9.6 | 0.85 |
| 0.33 | 19.8 | 0.90 |
| 0.50 | 30 | 0.96 |
| 0.66 | 39.6 | 0.99 |
| 0.83 | 49.8 | 1.02 |
| 1.00 | 60 | 1.07 |
| 1.16 | 69.6 | 1.09 |
| 1.33 | 79.8 | 1.13 |
| 1.50 | 90 | 1.15 |
| 2.00 | 120 | 1.23 |
| 2.50 | 150 | 1.27 |
| | | |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.80 |
| 0.16 | 9.6 | 0.83 |
| 0.33 | 19.8 | 0.88 |
| 0.50 | 30 | 0.92 |
| 0.66 | 39.6 | 0.95 |
| 0.83 | 49.8 | 0.98 |
| 1.00 | 60 | 1.00 |
| 1.33 | 79.8 | 1.05 |
| 1.66 | 99.6 | 1.10 |
| 2.00 | 120.00 | 1.14 |
| 2.33 | 139.80 | 1.18 |
| 2.66 | 159.60 | 1.23 |
| | | |
| | | |
| | | |

| | • | |
|----------|----------|-----------|
| Time (m) | Time (s) | Depth (m) |
| 0.00 | 0 | 0.75 |
| 0.16 | 9.6 | 0.80 |
| 0.33 | 19.8 | 0.84 |
| 0.50 | 30 | 0.87 |
| 0.66 | 39.6 | 0.90 |
| 0.83 | 49.8 | 0.94 |
| 1.00 | 60 | 0.97 |
| 1.33 | 79.8 | 1.00 |
| 1.66 | 99.6 | 1.05 |
| 2.00 | 120 | 1.08 |
| 2.33 | 139.8 | 1.13 |
| 2.66 | 159.6 | 1.16 |
| 3.00 | 180 | 1.19 |
| 3.33 | 199.8 | 1.23 |
| | | |

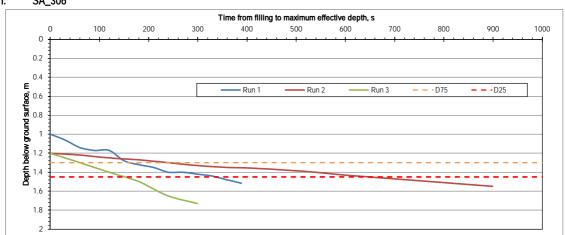


Project: CG/28824B

Client: Hanbury Eng: ELD/SM Checker NJL

Project: Cathedral Park, Chichester - Drainage Date: 30/01/20

Location: SA_306



| | <u>Run i</u> |
|----------------|--------------|
| Pit Length (m | 2.45 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.60 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (m | 2.45 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.60 |

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (m | 2.45 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 2.05 |

CGL

| Effective Depth | 0.60 |
|---------------------------------------|------|
| D ₇₅ (m) | 1.15 |
| D ₂₅ (m) | 1.45 |
| V _{p75-25} (m ³) | 0.51 |

| Effective Depth | 0.40 |
|---------------------------------------|------|
| D ₇₅ (m) | 1.30 |
| D ₂₅ (m) | 1.50 |
| V _{p75-25} (m ³) | 0.34 |
| • | |

| Effective Depth | 0.85 |
|---------------------------------------|----------|
| D ₇₅ (m) | 1.4125 |
| D ₂₅ (m) | 1.8375 |
| V _{p75-25} (m ³) | 0.728875 |

| t ₇₅ (s) | | 217.5 |
|------------------------------------|----------|------------|
| t ₂₅ (s) | | <i>555</i> |
| t _{p75-25} (s) | | 337.5 |
| a _{p50} (m ²) | | 3.605 |
| | | |
| Infiltration Rat | e (m/s): | 4.23E-0 |

| t ₇₅ (s) | 240 |
|------------------------------------|---------|
| t ₂₅ (s) | 775 |
| t _{p75-25} (s) | 535 |
| a _{p50} (m ²) | 2.975 |
| | |
| Infiltration Rate (m/s): | 2.16E-0 |

| t ₇₅ (s) | | 128 |
|------------------------------------|----------|------------|
| t ₂₅ (s) | | 338 |
| t _{p75-25} (s) | | 210.441176 |
| a _{p50} (m ²) | | 4.3925 |
| | | |
| Infiltration Rat | e (m/s): | 7.89E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1 |
| 0.50 | 30 | 1.06 |
| 1.00 | 60 | 1.14 |
| 1.50 | 90 | 1.17 |
| 2.00 | 120 | 1.17 |
| 2.50 | 150 | 1.28 |
| 3.00 | 180 | 1.32 |
| 3.50 | 210 | 1.35 |
| 4.00 | 240 | 1.4 |
| 4.50 | 270 | 1.4 |
| 5.00 | 300 | 1.42 |
| 5.50 | 330 | 1.44 |
| 6.00 | 360 | 1.48 |
| 6.50 | 390 | 1.52 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.20 |
| 1.00 | 60 | 1.22 |
| 2.00 | 120 | 1.25 |
| 3.00 | 180 | 1.27 |
| 4.00 | 240 | 1.30 |
| 5.00 | 300 | 1.33 |
| 6.00 | 360 | 1.35 |
| 7.00 | 420 | 1.36 |
| 9.00 | 540 | 1.40 |
| 10.00 | 600 | 1.43 |
| 15.00 | 900 | 1.55 |
| | | |
| | | |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.20 |
| 1.00 | 60 | 1.30 |
| 2.00 | 120 | 1.40 |
| 3.00 | 180 | 1.50 |
| 4.00 | 240 | 1.65 |
| 5.00 | 300 | 1.73 |
| 6.00 | 360 | 1.90 |
| 7.00 | 420 | 2.05 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

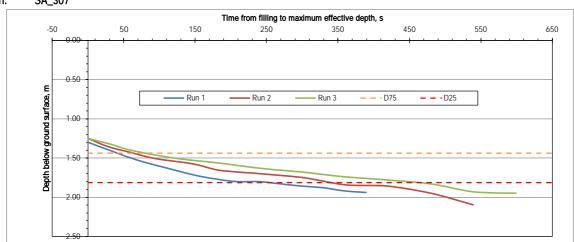


Project: CG/28824B

Client: Hanbury ELD / SMS Checker Eng: NJI

Project: Cathedral Park, Chichester - Drainage Date: 30/01/20

Location: SA_307



| | Run1 |
|----------------|------|
| Pit Length (n | 2.50 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 2.10 |

0.80

Effective Depth

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (n | 2.50 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 2.10 |

0.85

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (n | 2.50 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 2.00 |

CGL

| D ₇₅ (m) | 1.50 |
|---------------------------------------|------|
| D ₂₅ (m) | 1.90 |
| V _{p75-25} (m ³) | 0.70 |
| | |
| t ₇₅ (s) | 60 |
| t ₂₅ (s) | 345 |
| t _{p75-25} (s) | 285 |
| a _{p50} (m ²) | 4.31 |
| | |

| D ₇₅ (m) | 1.46 |
|---------------------------------------|-----------|
| D ₂₅ (m) | 1.89 |
| V _{p75-25} (m ³) | 0.74 |
| | |
| t ₇₅ (s) | 74 |
| t ₂₅ (s) | 438 |
| t _{p75-25} (s) | 364.40476 |
| • | |

Effective Depth

| Effective Depth | 0.75 |
|---------------------------------------|---------|
| D ₇₅ (m) | 1.4375 |
| D ₂₅ (m) | 1.8125 |
| V _{p75-25} (m ³) | 0.65625 |

| t ₇₅ (s) | | 60 |
|------------------------------------|--|------------|
| t ₂₅ (s) | | 345 |
| t _{p75-25} (s) | | <i>285</i> |
| a _{p50} (m ²) | | 4.31 |
| | | |
| Infiltration Rate (m/s): | | 5.70E-0 |

| t ₇₅ (s) | | 74 |
|------------------------------------|-------------|-----------|
| t ₂₅ (s) | | 438 |
| t _{p75-25} (s) | | 364.40476 |
| a _{p50} (m ²) | | 4.47 |
| | | |
| Infiltration F | Rate (m/s): | 4.57E-0 |

| t ₇₅ (s) | | 83 |
|------------------------------------|-------------|---------|
| t ₂₅ (s) | | 459 |
| t _{p75-25} (s) | | 376.5 |
| a _{p50} (m ²) | | 4.15 |
| | | |
| Infiltration F | Rate (m/s): | 4.20E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.30 |
| 0.50 | 30 | 1.40 |
| 1.00 | 60 | 1.50 |
| 1.50 | 90 | 1.58 |
| 2.00 | 120 | 1.65 |
| 2.50 | 150 | 1.72 |
| 3.00 | 180 | 1.77 |
| 3.50 | 210 | 1.80 |
| 4.00 | 240 | 1.80 |
| 4.50 | 270 | 1.83 |
| 5.00 | 300 | 1.86 |
| 5.50 | 330 | 1.88 |
| 6.00 | 360 | 1.92 |
| 6.50 | 390 | 1.94 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.25 |
| 0.50 | 30 | 1.36 |
| 1.00 | 60 | 1.43 |
| 1.50 | 90 | 1.50 |
| 2.00 | 120 | 1.54 |
| 2.50 | 150 | 1.58 |
| 3.00 | 180 | 1.65 |
| 3.50 | 210 | 1.68 |
| 4.00 | 240 | 1.70 |
| 5.00 | 300 | 1.75 |
| 6.00 | 360 | 1.84 |
| 7.00 | 420 | 1.86 |
| 8.00 | 480 | 1.95 |
| 9.00 | 540 | 2.10 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.25 |
| 0.50 | 30 | 1.32 |
| 1.00 | 60 | 1.40 |
| 2.00 | 120 | 1.50 |
| 3.00 | 180 | 1.56 |
| 4.00 | 240 | 1.63 |
| 5.00 | 300 | 1.68 |
| 6.00 | 360 | 1.74 |
| 7.00 | 420 | 1.78 |
| 8.00 | 480 | 1.83 |
| 9.00 | 540 | 1.93 |
| 10.00 | 600 | 1.95 |
| | | |
| | | |
| | | |

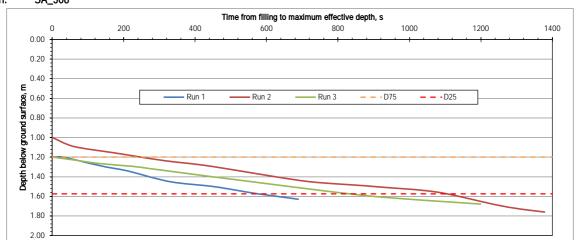
Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury ELD / SMS Checker Eng: NJI

Project: Cathedral Park, Chichester - Drainage Date: 30/01/20

Location: SA_308



| | Run1 |
|----------------|------|
| Pit Length (n | 2.30 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.70 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (n | 2.30 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.80 |

0.80 1.20

1.60

Effective Depth

D₇₅ (m) D₂₅ (m)

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (n | 2.30 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.70 |

CGL

| Effective Depth | 0.50 |
|---------------------------------------|--------|
| D ₇₅ (m) | 1.33 |
| D ₂₅ (m) | 1.58 |
| V _{p75-25} (m ³) | 0.40 |
| | |
| t ₇₅ (s) | 206.25 |

| t ₇₅ (s) | | 206.25 |
|------------------------------------|-----------|------------|
| t ₂₅ (s) | | <i>655</i> |
| t _{p75-25} (s) | | 448.75 |
| a _{p50} (m ²) | | 3.11 |
| | | |
| Infiltration Rat | te (m/s): | 2.88E-0 |

| V _{p75-25} (m ³) | 0.64 |
|---------------------------------------|----------------------|
| | |
| t ₇₅ (s) | 249 |
| t ₂₅ (s) | 1131 |
| t _{p75-25} (s) | 882.85714 |
| a _{p50} (m ²) | 4.01 |
| | |
| Infiltration Rate (r | n/s): <u>1.82E-0</u> |

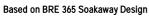
| Effective Depth | 0.5 |
|---------------------------------------|--------------|
| D ₇₅ (m) | 1.325 |
| D ₂₅ (m) | <i>1.575</i> |
| V _{p75-25} (m ³) | 0.4025 |
| | - |

| t ₇₅ (s) | | 290 |
|------------------------------------|-------------|-----------|
| t ₂₅ (s) | | 842 |
| t _{p75-25} (s) | | 552.30769 |
| a _{p50} (m ²) | | 3.11 |
| | | |
| Infiltration F | Rate (m/s): | 2.34E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.20 |
| 0.50 | 30 | 1.20 |
| 1.50 | 90 | 1.25 |
| 2.50 | 150 | 1.30 |
| 3.50 | 210 | 1.34 |
| 5.50 | 330 | 1.45 |
| 7.50 | 450 | 1.50 |
| 9.50 | 570 | 1.57 |
| 11.50 | 690 | 1.63 |
| | | |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.00 |
| 1.00 | 60 | 1.09 |
| 3.00 | 180 | 1.16 |
| 5.00 | 300 | 1.23 |
| 7.00 | 420 | 1.28 |
| 9.00 | 540 | 1.35 |
| 12.00 | 720 | 1.45 |
| 15.00 | 900 | 1.50 |
| 18.00 | 1080 | 1.56 |
| 21.00 | 1260 | 1.70 |
| 23.00 | 1380 | 1.76 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.20 |
| 1.00 | 60 | 1.23 |
| 2.00 | 120 | 1.26 |
| 3.00 | 180 | 1.28 |
| 4.00 | 240 | 1.30 |
| 5.00 | 300 | 1.33 |
| 10.00 | 600 | 1.47 |
| 15.00 | 900 | 1.60 |
| 20.00 | 1200 | 1.68 |
| | | |
| | | |
| | | |

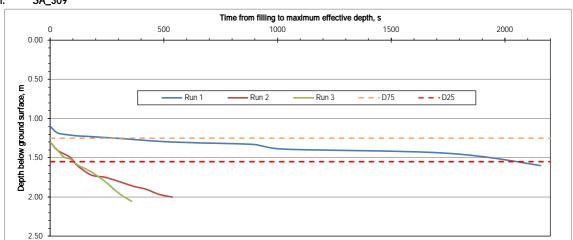


Project: CG/28824B

Client: Hanbury Eng: ELD / SMS Checker NJI

Project: Cathedral Park, Chichester - Drainage Date: 30/01/20

Location: SA_309



| | <u>kun i</u> |
|----------------|--------------|
| Pit Length (n | 2.50 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 1.70 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (n | 2.50 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 2.00 |

| | <u> Run 3</u> |
|----------------|---------------|
| Pit Length (n | 2.50 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 2.10 |

CGL

| Effective Dept | h | 0.60 |
|---------------------------------------|---|-------------|
| D ₇₅ (m) | | 1.25 |
| D ₂₅ (m) | | <i>1.55</i> |
| V _{p75-25} (m ³) | | 0.53 |
| | | |

| t ₇₅ (s) | 288 |
|------------------------------------|----------------|
| t ₂₅ (s) | 2028.75 |
| t _{p75-25} (s) | <i>1740.75</i> |
| a _{p50} (m ²) | 3.67 |
| | |
| Infiltration Rate (m/s): | 8.22E-0 |

| Effective Depth | 0.70 |
|---------------------------------------|------|
| D ₇₅ (m) | 1.48 |
| D ₂₅ (m) | 1.83 |
| V _{p75-25} (m ³) | 0.61 |
| | |
| t ₇₅ (S) | 75 |

| t ₇₅ (s) | | <i>75</i> |
|------------------------------------|--|------------|
| t ₂₅ (s) | | 325 |
| t _{p75-25} (s) | | <i>250</i> |
| a _{p50} (m ²) | | 3.99 |
| | | |
| Infiltration Rate (m/s): | | 6.14E-0 |

| Effective De | pth | 0.8 |
|--------------------------------|-----|-----|
| D ₇₅ (m) | | 1.5 |
| D ₂₅ (m) | | 1.9 |
| V_{p75-25} (m ³) | | 0.7 |

| t ₇₅ (s) | | 70 |
|-----------------------------|------------|---------|
| t ₂₅ (s) | | 280 |
| t _{p75-25} (s) | | 210 |
| a_{p50} (m ²) | | 4.31 |
| | | |
| Infiltration R | ate (m/s): | 7.73E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.10 |
| 0.50 | 30 | 1.18 |
| 1.00 | 60 | 1.20 |
| 2.00 | 120 | 1.22 |
| 4.00 | 240 | 1.24 |
| 8.00 | 480 | 1.29 |
| 11.00 | 660 | 1.31 |
| 15.00 | 900 | 1.33 |
| 17.00 | 1020 | 1.39 |
| 29.00 | 1740 | 1.44 |
| 36.00 | 2160 | 1.60 |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.30 |
| 0.50 | 30 | 1.40 |
| 1.00 | 60 | 1.45 |
| 1.50 | 90 | 1.50 |
| 2.00 | 120 | 1.60 |
| 3.00 | 180 | 1.72 |
| 4.00 | 240 | 1.75 |
| 5.00 | 300 | 1.80 |
| 6.00 | 360 | 1.86 |
| 7.00 | 420 | 1.90 |
| 8.00 | 480 | 1.97 |
| 9.00 | 540 | 2.00 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 1.30 |
| 0.50 | 30 | 1.40 |
| 1.00 | 60 | 1.49 |
| 1.50 | 90 | 1.52 |
| 2.00 | 120 | 1.59 |
| 3.00 | 180 | 1.68 |
| 4.00 | 240 | 1.80 |
| 5.00 | 300 | 1.95 |
| 6.00 | 360 | 2.06 |
| | | |
| | | |
| | | |
| | | |



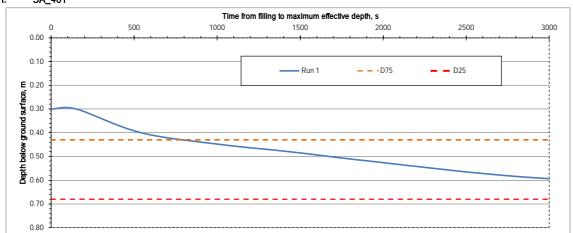
Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury Eng: SM S Checker NJL

Project: Cathedral Park, Chichester - Drainage Date: 02/03/20

Location: SA_401



| | Run1 |
|----------------|------|
| Pit Length (m | 3.20 |
| Pit Width (m): | 0.65 |
| Pit Depth (m): | 0.80 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (rr | |
| Pit Width (m): | |
| Pit Depth (m): | |

Effective Depth

D₇₅ (m)

D₂₅ (m)

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (m | |
| Pit Width (m): | |
| Pit Depth (m): | |

Effective Depth

D₇₅ (m)

| Effective Depth (m) | 0.50 |
|---------------------------------------|------|
| D ₇₅ (m) | 0.43 |
| D ₂₅ (m) | 0.68 |
| V _{p75-25} (m ³) | 0.52 |

| t ₇₅ (s) | 780 |
|------------------------------------|----------|
| t ₂₅ (s) | 4776 |
| t _{p75-25} (s) | 3996 |
| a _{p50} (m ²) | 4.005 |
| | |
| Infiltration Rate (m/s): | 3.25E-0! |

| 25 () | | |
|---|-------------|--|
| V_{p75-25} (m ³) | | |
| | | |
| t ₇₅ (s) | | |
| t ₂₅ (s) | | |
| t _{p75-25} (s) | | |
| t _{p75-25} (s) a _{p50} (m ²) | | |
| | | |
| Infiltration F | Rate (m/s): | |

| D ₂₅ (m) | | |
|--|--------|--|
| V _{p75-25} (m ³) | | |
| | | |
| t ₇₅ (s) | | |
| t ₂₅ (s) | | |
| t _{p75-25} (s) | | |
| t_{p75-25} (s) a_{p50} (m ²) | | |
| | | |
| Infiltration Rate | (m/s): | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 2.50 | 150 | 0.30 |
| 9.00 | 540 | 0.40 |
| 17.00 | 1020 | 0.45 |
| 24.00 | 1440 | 0.48 |
| 32.00 | 1920 | 0.52 |
| 48.50 | 2910 | 0.59 |
| 71.50 | 4290 | 0.63 |
| 80.50 | 4830 | 0.68 |
| 96.50 | 5790 | 0.70 |
| 106.50 | 6390 | 0.71 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
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| Time (m) | Time (s) | Depth (m) |
|----------|----------|-------------|
| | (6) | Dopui (iii) |
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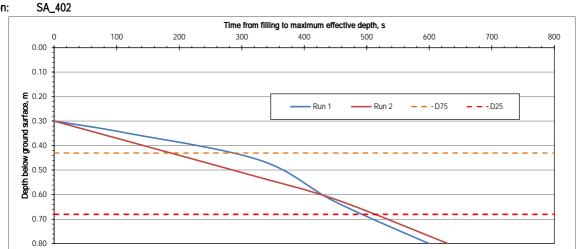
Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury Eng: SM S Checker NJI

Project: Cathedral Park, Chichester - Drainage Date: 02/03/20

Location:



| | Run1 |
|----------------|------|
| Pit Length (n | 3.00 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 0.80 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (n | 3.00 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 0.80 |

0.50

0.43

0.68

0.53

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (n | |
| Pit Width (m): | |
| Pit Depth (m): | |

Effective Depth

D₇₅ (m)

D₂₅ (m)

 V_{p75-25} (m³)

| Effective Depth (m) | 0.50 |
|---------------------------------------|------|
| D ₇₅ (m) | 0.43 |
| D ₂₅ (m) | 0.68 |
| V _{p75-25} (m ³) | 0.53 |

| t ₇₅ (s) | | 263.18182 |
|------------------------------------|----------|-----------|
| t ₂₅ (s) | | 489.70588 |
| t _{p75-25} (s) | | 226.52406 |
| a _{p50} (m ²) | | 3.95 |
| | | |
| Infiltration Rat | e (m/s): | 5.87E-0 |

| | 1 | | | |
|------------------|---|------------------------------------|-------------|-------------|
| 5.87E-0 | | Infiltration F | Rate (m/s): | 4.07E-0 |
| | | | | |
| <i>3.95</i> | | a _{p50} (m ²) | | <i>3.95</i> |
| <i>226.52406</i> | | t _{p75-25} (s) | | 326 |
| <i>489.70588</i> | | t ₂₅ (s) | | <i>505</i> |
| <i>263.18182</i> | | t ₇₅ (s) | | 179 |
| | | | | |

Effective Depth

D₇₅ (m)

D₂₅ (m)

 V_{p75-25} (m³)

| t ₇₅ (s) | |
|---|--|
| t ₂₅ (s) | |
| t _{p75-25} (s) | |
| t _{p75-25} (s) a _{p50} (m ²) | |
| Infiltration I | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 2.00 | 120 | 0.35 |
| 5.50 | 330 | 0.46 |
| 7.50 | 450 | 0.63 |
| 10.00 | 600 | 0.80 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 5.00 | 300 | 0.51 |
| 7.50 | 450 | 0.62 |
| 10.50 | 630 | 0.80 |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
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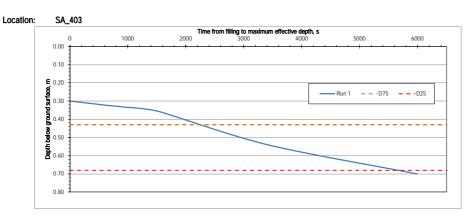


Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury SM S Checker Eng: NJL

Project: Cathedral Park, Chichester - Drainage Date: 02/02/20



| | Run1 |
|----------------|------|
| Pit Length (n | 3.00 |
| Pit Width (m): | 0.60 |
| Pit Depth (m): | 0.80 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (n | |
| Pit Width (m): | |
| Pit Depth (m): | |

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (n | |
| Pit Width (m): | |
| Pit Depth (m): | |

| Effective Depth (m) | | 0.50 |
|--------------------------------|--|------|
| D ₇₅ (m) | | 0.43 |
| D ₂₅ (m) | | 0.68 |
| V_{p75-25} (m ³) | | 0.45 |
| | | |

| D ₂₅ (m) | |
|--------------------------------|--|
| V_{p75-25} (m ³) | |
| | |
| t ₇₅ (s) | |
| t ₂₅ (s) | |
| t _{p75-25} (s) | |
| 2 | |

Effective Depth D₇₅ (m)

| Effective Depth | | |
|--------------------------------|--|--|
| D ₇₅ (m) | | |
| D ₂₅ (m) | | |
| V_{n75-25} (m ³) | | |

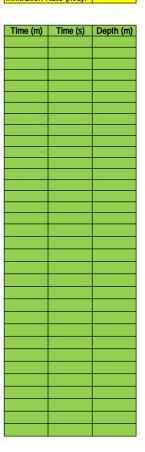
| Infiltration Rate (m/s): | 3.71E-0 |
|------------------------------------|----------------|
| | |
| a _{p50} (m ²) | 3.6 |
| t _{p75-25} (s) | 3365.2083 |
| t ₂₅ (s) | <i>5596.88</i> |
| t ₇₅ (s) | 2231.6667 |

| t ₇₅ (s) | | |
|------------------------------------|--|--|
| t ₂₅ (s) | | |
| t _{p75-25} (s) | | |
| a _{p50} (m ²) | | |
| | | |
| Infiltration Rate (m/s): | | |

| t ₇₅ (s) | | |
|------------------------------------|--|--|
| t ₂₅ (s) | | |
| t _{p75-25} (s) | | |
| a _{p50} (m ²) | | |
| | | |
| Infiltration Rate (m/s): | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 14.00 | 840 | 0.33 |
| 20.00 | 1200 | 0.34 |
| 26.00 | 1560 | 0.36 |
| 57.00 | 3420 | 0.54 |
| 100.00 | 6000 | 0.70 |
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| Time (m) | Time (s) | Depth (m) |
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Notes:

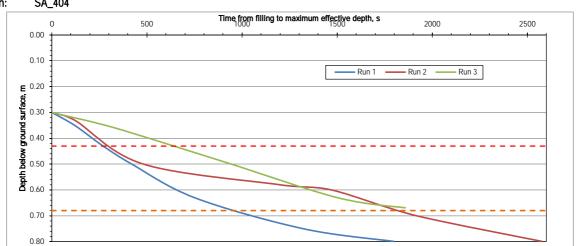
Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury Eng: SM S Checker NJI

Project: Cathedral Park, Chichester - Drainage Date: 02/03/20





| | <u>Run I</u> |
|----------------|--------------|
| Pit Length (n | 2.60 |
| Pit Width (m): | 0.60 |
| Pit Depth (m): | 0.80 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (n | 2.60 |
| Pit Width (m): | 0.60 |
| Pit Depth (m): | 0.80 |

0.50

0.43

0.68

0.39

321

1808 1486.3235

Effective Depth

D₇₅ (m)

D₂₅ (m)

t₇₅ (s)

t₂₅ (s)

t_{p75-25} (s)

 $V_{p75-25} (m^3)$

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (n | 2.60 |
| Pit Width (m): | 0.60 |
| Pit Depth (m): | 0.80 |

0.50

Effective Depth

| Effective Depth | | 0.50 |
|---------------------------------------|--|------|
| D ₇₅ (m) | | 0.43 |
| D ₂₅ (m) | | 0.68 |
| V _{p75-25} (m ³) | | 0.39 |

| t ₇₅ (s) | | 260.625 |
|------------------------------------|--|---------|
| t ₂₅ (s) | | 963.75 |
| | | 703.125 |
| t _{p75-25} (s) | | 7007720 |
| a _{p50} (m ²) | | 3.16 |
| | | |
| Infiltration Rate (m/s): | | 1.76E-0 |

| | a _{p50} (m ²) | | 3.16 |
|---|------------------------------------|-------------|-----------------------|
| 1 | | | |
| | Infiltration F | Rate (m/s): | 8.30E-0 |
| | | | |
| | | | |
| | | | |
| I | Time (m) | Time (s) | Depth (m) |
| | Time (m) | Time (s) | Depth (m) 0.30 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 2.00 | 120 | 0.33 |
| 8.00 | 480 | 0.50 |
| 20.00 | 1200 | 0.58 |
| 24.50 | 1470 | 0.60 |
| 32.00 | 1920 | 0.70 |
| 43.00 | 2580 | 0.80 |
| | | |

| D ₇₅ (111) | 0.43 |
|---------------------------------------|---------------------|
| D ₂₅ (m) | 0.68 |
| V _{p75-25} (m ³) | 0.39 |
| | |
| t ₇₅ (s) | 615 |
| t ₂₅ (s) | 540 |
| t _{p75-25} (s) | <i>-75</i> |
| a _{p50} (m ²) | 3.16 |
| | |
| Infiltration Rate (m/ | s): <u>-1.65E-0</u> |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 5.50 | 330 | 0.36 |
| 15.00 | 900 | 0.49 |
| 25.00 | 1500 | 0.63 |
| 31.00 | 1860 | 0.67 |
| | | |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 2.00 | 120 | 0.35 |
| 4.50 | 270 | 0.43 |
| 7.00 | 420 | 0.50 |
| 12.50 | 750 | 0.63 |
| 22.00 | 1320 | 0.75 |
| 30.00 | 1800 | 0.8 |
| | | |

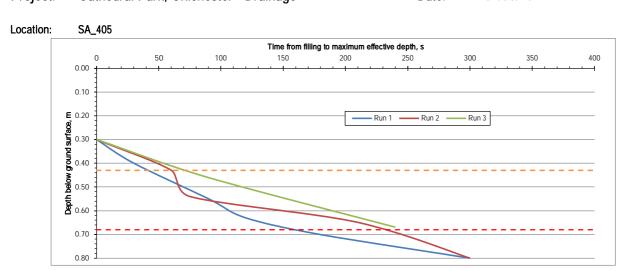


Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury Eng: SM S Checker NJL

Project: Cathedral Park, Chichester - Drainage Date: 02/03/20



| | Run1 |
|----------------|------|
| Pit Length (m | 3.00 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 0.80 |

| | Run 2 |
|----------------|-------|
| Pit Length (rr | 3.00 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 0.80 |

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (m | 3.00 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 0.80 |

| Effective Depth | 0.50 |
|---------------------------------------|------|
| D ₇₅ (m) | 0.43 |
| D ₂₅ (m) | 0.68 |
| V _{p75-25} (m ³) | 0.53 |

| Effective Depth | 0.50 | |
|---------------------------------------|-----------|--|
| D ₇₅ (m) | 0.43 | |
| D ₂₅ (m) | 0.68 | |
| V _{p75-25} (m ³) | 0.53 | |
| | | |
| t (c) | 57 602208 | |

| Effective Depth | | 0.50 |
|---------------------|--|------|
| D ₇₅ (m) | | 0.43 |
| D ₂₅ (m) | | 0.68 |
| $V_{} = (m^3)$ | | 0.53 |

| t ₇₅ (s) | | 40 |
|------------------------------------|-----------|------------------|
| t ₂₅ (s) | | <i>158.57143</i> |
| t _{p75-25} (s) | | 118.57143 |
| a _{p50} (m ²) | | <i>3.95</i> |
| | | |
| Infiltration Rat | te (m/s): | 1.12E-0 |

| t ₇₅ (s) | | <i>57.692308</i> |
|------------------------------------|--|------------------|
| t ₂₅ (s) | | 225 |
| t _{p75-25} (s) | | 167.30769 |
| a _{p50} (m ²) | | 3.95 |
| | | |
| Infiltration Rate (m/s): | | 7.94E-04 |

| t ₇₅ (s) | | <i>70.3125</i> |
|------------------------------------|--------|----------------|
| t ₂₅ (s) | | 161.3 |
| t _{p75-25} (s) | | 90.9875 |
| a _{p50} (m ²) | | <i>3.95</i> |
| | | |
| Infiltration Rate | (m/s): | 1.46E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 0.50 | 30 | 0.40 |
| 1.50 | 90 | 0.55 |
| 2.00 | 120 | 0.63 |
| 3.00 | 180 | 0.70 |
| 5.00 | 300 | 0.80 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 1.00 | 60 | 0.43 |
| 1.25 | 75 | 0.54 |
| 3.50 | 210 | 0.65 |
| 5.00 | 300 | 0.80 |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 1.50 | 90 | 0.46 |
| 4.00 | 240 | 0.67 |
| | | |
| | | |
| | | |
| | | |

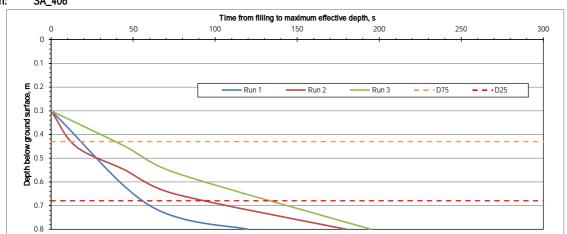
Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury Eng: SM S Checker NJL

Project: Cathedral Park, Chichester - Drainage Date: 02/03/20

Location: SA_406



| | <u>Run1</u> |
|----------------|-------------|
| Pit Length (rr | 2.60 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 0.80 |

| | <u>Ruii Z</u> |
|----------------|---------------|
| Pit Length (rr | 2.60 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 0.80 |
| | |

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (rr | 2.60 |
| Pit Width (m): | 0.70 |
| Pit Depth (m): | 0.80 |

CGL

| Effective Depth | 0.50 |
|---------------------------------------|------|
| D ₇₅ (m) | 0.43 |
| D ₂₅ (m) | 0.68 |
| V _{p75-25} (m ³) | 0.46 |
| | - |

| Infiltration Rat | e (m/s): | 3.50E-0 |
|------------------------------------|----------|--------------|
| , | | |
| a _{p50} (m ²) | | 3.47 |
| t _{p75-25} (s) | | 37.5 |
| t ₂₅ (s) | | <i>56.25</i> |
| t ₇₅ (s) | | <i>18.75</i> |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.3 |
| 1.00 | 60 | 0.7 |
| 2.00 | 120 | 0.8 |
| | | |
| | | |
| | | |

| Effective Depth | 0.50 |
|---------------------------------------|------|
| D ₇₅ (m) | 0.43 |
| D ₂₅ (m) | 0.68 |
| V _{p75-25} (m ³) | 0.46 |
| | |

| t ₇₅ (s) | | 13 |
|------------------------------------|-------------|---------|
| t ₂₅ (s) | | 93 |
| t _{p75-25} (s) | | 80 |
| a _{p50} (m ²) | | 3.47 |
| | | |
| Infiltration F | Rate (m/s): | 1.64E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 0.25 | 15 | 0.45 |
| 0.75 | 45 | 0.55 |
| 1.25 | 75 | 0.65 |
| 3.00 | 180 | 0.80 |
| | | |

| Effective Depth | 0.5 |
|---------------------------------------|-------|
| D ₇₅ (m) | 0.425 |
| D ₂₅ (m) | 0.675 |
| V _{p75-25} (m ³) | 0.455 |

| t ₇₅ (s) | | 38 |
|------------------------------------|--|-----------|
| t ₂₅ (s) | | 133 |
| t _{p75-25} (s) | | <i>95</i> |
| a _{p50} (m ²) | | 3.47 |
| | | |
| Infiltration Rate (m/s): | | 1.38E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 0.75 | 45 | 0.45 |
| 1.25 | 75 | 0.56 |
| 3.25 | 195 | 0.80 |
| | | |
| | | |



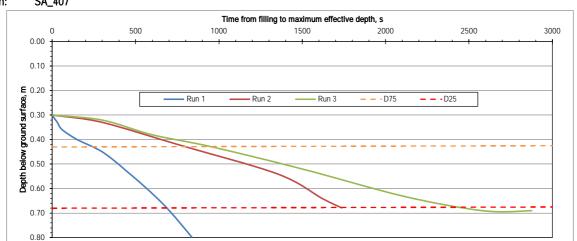
Based on BRE 365 Soakaway Design

Project: CG/28824B

Client: Hanbury Eng: SM S Checker NJI

Project: Cathedral Park, Chichester - Drainage Date: 02/03/20

Location: SA_407



| | <u>kun i</u> |
|----------------|--------------|
| Pit Length (n | 3.30 |
| Pit Width (m): | 0.75 |
| Pit Depth (m): | 0.80 |

| | <u>Run 2</u> |
|----------------|--------------|
| Pit Length (n | 3.30 |
| Pit Width (m): | 0.75 |
| Pit Depth (m): | 0.80 |

0.50

0.43

0.68

Effective Depth

D₇₅ (m)

D₂₅ (m)

| | <u>Run 3</u> |
|----------------|--------------|
| Pit Length (n | 3.30 |
| Pit Width (m): | 0.75 |
| Pit Depth (m): | 0.80 |

Effective Depth

| Effective Depth | 0.50 |
|---------------------------------------|------|
| D ₇₅ (m) | 0.43 |
| D ₂₅ (m) | 0.68 |
| V _{p75-25} (m ³) | 0.62 |
| | |
| A (a) | 225 |

| t ₇₅ (s) | | <i>225</i> |
|------------------------------------|--|------------------|
| t ₂₅ (s) | | <i>679.28571</i> |
| t _{p75-25} (s) | | <i>454.28571</i> |
| a _{p50} (m ²) | | 4.5 |
| | | |
| Infiltration Rate (m/s): | | 3.03E-0 |

| ▼p75-25 (**** / | | 0.02 |
|------------------------------------|----------|-------------|
| | | |
| t ₇₅ (s) | | <i>775</i> |
| t ₂₅ (s) | | <i>1725</i> |
| t _{p75-25} (s) | | 950 |
| a _{p50} (m ²) | | 4.5 |
| | | |
| Infiltration Rate | e (m/s): | 1.45E-0 |
| | | |

| υ ₇₅ (m) | 0.425 |
|---------------------------------------|-------------|
| D ₂₅ (m) | 0.675 |
| V _{p75-25} (m ³) | 0.61875 |
| | |
| t ₇₅ (s) | 924 |
| t ₂₅ (s) | 2460 |
| t _{p75-25} (s) | <i>1536</i> |
| a _{p50} (m ²) | 4.5 |
| | |
| Infiltration Rate (m/s): | 8.95E-0 |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 0.50 | 30 | 0.33 |
| 1.00 | 60 | 0.36 |
| 2.50 | 150 | 0.40 |
| 5.00 | 300 | 0.45 |
| 7.50 | 450 | 0.53 |
| 11.00 | 660 | 0.66 |
| 14.00 | 840 | 0.80 |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 5.00 | 300 | 0.33 |
| 12.50 | 750 | 0.42 |
| 22.50 | 1350 | 0.54 |
| 27.00 | 1620 | 0.64 |
| 29.00 | 1740 | 0.68 |
| | | |
| | | |
| | | |

| Time (m) | Time (s) | Depth (m) |
|----------|----------|-----------|
| 0.00 | 0 | 0.30 |
| 5.00 | 300 | 0.32 |
| 10.00 | 600 | 0.38 |
| 16.00 | 960 | 0.43 |
| 25.00 | 1500 | 0.52 |
| 35.00 | 2100 | 0.63 |
| 43.00 | 2580 | 0.69 |
| 48.00 | 2880 | 0.69 |
| | | |