
**Report on Acid Sulphate and Salinity
Assessment**

Green Square DC SYDGPU1

3 Brookhollow Avenue, Norwest NSW

Prepared for GreenSquareDC Pty Ltd

Project 233937.00

15 December 2025

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The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

Signature

Date

Author

15 December 2025

Reviewer
p.p.

15 December 2025

Table of Contents

	Page No
1. Introduction.....	1
2. Site Description	1
3. Regional Mapping	2
3.1 Soil Landscape	2
3.2 Geology	2
3.3 Hydrogeology	2
3.4 Acid Sulfate Soils.....	2
3.5 Salinity	2
4. Acid Sulphate Soils Assessment	3
5. Soil Salinity	3
5.1 Soil Salinity Investigation	3
5.2 Salinity Assessment	5
6. Limitations	6

Appendix A: About This Report

Appendix B: Drawings

Appendix C: Field Work Results

Appendix D: Laboratory Test Results

Report Acid Sulphate Soils and Salinity Assessment

Green Square DC SYDGPU1

3 Brookhollow Avenue, Norwest NSW

1. Introduction

This report summarises the results of acid sulphate soils and salinity assessment (undertaken during recent geotechnical investigations) to support a State Significant Development Application (SSDA) for the proposed data centre development of 3 Brookhollow Avenue, Norwest. This report was commissioned by Aurecon Australasia Pty Ltd on behalf of Project Garden 1 Pty Ltd ATF The Norwest Property Trust and was completed in accordance with the Douglas proposal 233937.00.P.002.Rev0 dated 25 June 2025.

It is understood from the supplied development drawings that the proposed development will consist of refurbishment and upgrades to the existing building and the construction of three new data buildings, a generator and electrical plant building, as well as a substation yard.

This Salinity and Acid Sulphate Soils Assessment report was undertaken in conjunction with a Geotechnical Investigation Report by Douglas ref 233937.00.R.002.Rev0 dated 18 September 2025. It should be noted that this assessment consists of a review of available information from published data and the Geotechnical Investigation Report undertaken for this proposed development.

2. Site Description

The property at 3 Brookhollow Avenue, Norwest, also known as Lot 2021 in Deposited Plan (DP) 831173, is located at the corner of Norwest Boulevard and Brookhollow Avenue. The lot forms an irregular shape with a total area of approximately 5.2 hectares. The site is situated within a commercial precinct, with the surrounding area predominantly occupied by commercial buildings ranging between two and four storeys in height.

Currently, the property is occupied by a multi-storey data centre building situated on a southwest facing hill, with at-grade parking areas located to the east of the structure. The remaining parts of the lot are generally grassed, with mature trees along the boundaries. The existing building and associated infrastructure appear to generally be in good condition, with no significant settlements observed in the ground floor slab. Site surface levels fall from the eastern boundary, at the roundabout intersection of Norwest Boulevard and Brookhollow Avenue, at approximately RL 102 m AHD, down to the western boundary along Strangers Creek, at approximately RL 80 m AHD. Based on historical knowledge of the site, the existing data centre building is constructed on a levelled platform at approximately RL 89 m AHD. This pad was likely formed by cutting into the hillside by approximately 2 to 3 m at the northern end of the existing building and placing fill of up to approximately 5 m depth at the southern end, in the area of the existing loading dock.

The twin tunnels of the Sydney Metro Northwest rail line are understood to pass below the north-western part of the site. The tunnels are currently indicated on the supplied plan (Drawing

230062-DA010 Issue 6 by Greenbox Architecture) to occupy a width of approximately 14 m, while the publicly available TfNSW report “Northwest Rail Link. EIS Stage 1 – Major Civil Construction Works” report indicates that the tunnel invert levels range from RL 75 m AHD to RL 70 m AHD. The approximate alignment of the Metro tunnels is shown in Drawing 1 in Appendix B as a guide, but this should be confirmed by Sydney Metro's provided details.

3. Regional Mapping

3.1 Soil Landscape

Reference to the Penrith 1:100,000 Soil Landscape Sheet indicates that the site is situated along the boundary of two soil landscapes: the residual Blacktown landscape and the erosional Luddenham landscape.

The Blacktown soil landscape is mapped as underlying the western third of the site and typically comprises moderately to highly reactive, highly plastic red and brown loams and clays of moderate to deep depth. The Luddenham soil landscape, underlying the eastern two-thirds of the site, typically consists of moderately reactive brown to dark brown and grey loams and clays, which are susceptible to erosion.

3.2 Geology

Reference to the Penrith 1:100 000 Geology Sheet indicates that the site is underlain by Ashfield Shale, which typically comprises black to dark grey shale and laminite (interlaminated siltstone and sandstone), overlain by residual clays of medium to high plasticity. The results of the field work for the present investigation were consistent with the published geological mapping, with the exception of deeper fill in some areas due to past earthworks.

3.3 Hydrogeology

A search of the NSW Department of Primary Industries groundwater bore records for registered groundwater bores indicated that the nearest groundwater bore (GW111242) is located approximately 500 m to the southwest of the site. Bore details state that the bore was drilled to 8.3 m depth and that groundwater levels have not been provided.

3.4 Acid Sulphate Soils

Reference to the NSW Acid sulphate soil risk map indicates that the site is not within an area of known acid sulphate soil risk.

3.5 Salinity

Reference to the map of salinity potential in Western Sydney 2002 indicates that the site is generally in an area of moderate salinity potential, however, an area of high salinity potential is present along the southwestern site boundary, likely associated with the presence of Strangers Creek.

4. Acid Sulphate Soils Assessment

Based on the geological soil Conditions, the development area is located within the residual Blacktown and the erosional Luddenham soil landscapes and are not associated with any existing or old alluvial or coastal regions or channels, typically associated with acid sulphate soil risk. Residual and erosional soils are primarily derived from weathering of the underlying bedrock, which tends to be siltstone or sandstone. These soils are not associated with acid sulphate soils, and this is further confirmed by the mapping (Section 3.4).

Acid sulphate soils (ASS) are typically more prevalent in low-lying cost regions or along alluvial channels (typically below RL7 m AHD). Acid sulphate soils form where there is a combination of waterlogged or anaerobic conditions, a source of sulphate from seawater or saline groundwater, and the presence of organic matter and metals such as iron. In these conditions, naturally occurring bacteria produce actual acid sulphate soils (AASS) and potential acid sulphate soils (PASS).

Given that the site is neither located in a coastal nor alluvial region and is underlain by residual and erosional soil landscapes above RL80, the presence of ASS within the underlying soils is unlikely, and further management of ASS is generally not required to address planning requirements for this proposed development.

5. Soil Salinity

5.1 Soil Salinity Investigation

As salinity mapping (Section 3.5) indicates that the proposed development is within an area of moderate salinity potential with high salinity potential noted near the southwestern site boundary, further investigations were undertaken as part of the Geotechnical Investigation Report (Douglas ref 233937.00.R.002.Rev0 dated 18 September 2025) to assess in-situ soil salinity.

Details on the field work methods, field work results and laboratory test results relevant to this salinity assessment can be found within the Geotechnical Investigation Report.

To summarise the geotechnical investigation report, a total of 8 boreholes (BH110, BH202, BH204 to BH208 and BH210) were drilled for salinity assessment purposes, with each borehole intersecting the full soil profile at each borehole location. Relevant borehole logs have been provided in Appendix C.

A total of 12 soil samples were collected from these boreholes, one sample from each natural soil layer, and underwent salinity (soil) suite testing consisting of electrical conductivity corrected for texture (EC_e), sodicity (as exchangeable sodium percentage, ESP) and textural class.

The relevant salinity test results are summarised in Tables 1 and 2, with detailed laboratory test results presented in Appendix D.

Table 1: Summary of Salinity Suite Test Results

Test Location	Depth (m)	Soil Description	EC _{1:5} (dS/m)	Texture Class	EC _e (dS/m)	pH _w (1:5)	Cl (ppm)	SO ₄ (ppm)	Comments	
									Salinity	Acidity
BH110	4.5 – 4.95	Residual Clay	0.057	MC	<2	5.3	10	27	NS	St.Ac
BH110	6.0 – 6.45	Residual Clay	0.087	MC	<2	5.3	43	64	NS	St.Ac
BH202	0.4 – 0.5	Residual Clay	0.190	CL	<2	6.5	<10	170	NS	Sl.Ac
BH204	1.0 – 1.45	Residual Clay	0.019	HC	<2	5.7	<10	10	NS	Mo.Ac
BH204	2.5 – 2.95	Residual Clay	0.028	L	<2	5.6	<10	10	NS	Mo.Ac
BH205	0.4 – 0.5	Residual Clay	0.028	MC	<2	5.4	<10	20	NS	St.Ac
BH206	1.0 – 1.45	Residual Clay	0.150	CL	<2	5.6	60	110	NS	Mo.Ac
BH207	0.5 – 0.6	Residual Clay	0.074	CL	<2	5.4	<10	85	NS	St.Ac
BH207	0.9 – 1.0	Residual Clay	0.086	L	<2	5.4	20	88	NS	St.Ac
BH208	0.9 – 1.0	Residual Clay	0.140	MC	<2	5.1	<10	190	NS	St.Ac
BH210	1.0 – 1.45	Residual Clay	0.031	HC	<2	5.6	<10	30	NS	Mo.Ac
BH210	0.4 – 0.5	Residual Clay	0.030	MC	<2	5.4	<10	20	NS	St.Ac

Where:

EC_{1:5} = Electrical Conductivity in water,
pH_w = pH in water,
SO₄ = Sulfate ions
MC = Medium Clay
CL = Clay Loam
NS = non-saline
Mo.Ac = Moderately Acidic

EC_e = Electrical conductivity corrected for texture,
Cl = Chloride ions
dS = deci-siemens per metre
L= Loam
HC = Heavy Clay
St.Ac= Strongly Acidic
Sl.AC = Slightly Acidic

Table 2: Summary of Sodicity Test Results

Test Location	Depth	Soil Description	ESP (%)	Sodicity*
BH110	4.5 – 4.95	Residual Clay	19	Highly Sodic
BH110	6.0 – 6.45	Residual Clay	20	Highly Sodic
BH202	0.4 – 0.5	Residual Clay	<1	Non Sodic
BH204	1.0 – 1.45	Residual Clay	11	Sodic
BH204	2.5 – 2.95	Residual Clay	26	Highly Sodic
BH205	0.4 – 0.5	Residual Clay	6	Sodic
BH206	1.0 – 1.45	Residual Clay	20	Highly Sodic
BH207	0.5 – 0.6	Residual Clay	6	Sodic
BH207	0.9 – 1.0	Residual Clay	22	Highly Sodic
BH208	0.9 – 1.0	Residual Clay	7	Sodic
BH210	1.0 – 1.45	Residual Clay	4	Non Sodic
BH210	0.4 – 0.5	Residual Clay	<1	Non Sodic

Where: ESP = Exchangeable Sodium Percentage

* As per the Department of Land and Water Conservation (2002), *Site investigation for Urban Salinity*

5.2 Salinity Assessment

The NSW Salinity Potential map for Western Sydney indicates that a moderate salinity potential category is applicable to the site and its immediate surrounds. A total of 12 laboratory test results on samples from eight boreholes (BH110, BH202, BH204 to BH208 and BH210) have been undertaken. The samples of the natural soil layers indicate non-saline values.

Soil salinity is assessed with respect to electrical conductivity after conversion of the result to EC_e (electrical conductivity of a saturated extract) by multiplication with a factor dependent on soil texture. Once converted, the EC_e value is compared to the guideline ranges listed in Table 3.

Table 3: Soil Salinity Classification

Class	EC_e (dS/m)	Implication
Non-Saline	<2	Salinity effects are mostly negligible
Slightly Saline	2 – 4	Yields of sensitive crops effected
Moderately Saline	4 – 8	Yields of many crops effected
Very Saline	8 – 16	Only tolerant crops yield satisfactorily
Highly Saline	>16	Only a few very tolerant crops yield satisfactorily

During the site investigation, samples from the soil profile were collected. 12 samples underwent chemical testing in an attempt to 'ground truth' the relevance of the mapped conditions. The results of the testing (Table 1 and Table 2) show that non-saline soil conditions are present throughout the site.

The 12 samples equate to approximately one laboratory sample for every 4,400 m² of land proposed for development. Eight detailed soil profiles were used to obtain the samples, which equates to one full profile laboratory analysis per 7,600 m². This frequency equates to the minimum testing frequency listed in the Site Investigation for Urban Salinity guideline booklet (commonly adopted and published by the Department of Land and Water Conservation [DLWC], 2002). The results, therefore, are considered to be an appropriate representation of the site.

Given the results obtained (i.e. non-saline soils), the provision of a salinity management plan is generally not required to address planning requirements.

6. Limitations

Douglas Partners Pty Ltd (Douglas) has prepared this report for this project at 3 Brookhollow Avenue, Norwest, NSW, in line with Douglas' proposal 233937.00.P.003.Rev0 dated 25 June 2025, and acceptance received by Aurecon Australasia Pty Ltd acting as agents on behalf of Project Garden 1 Pty Ltd ATF Norwest Property Trust. The work was carried out under a Sub-consultancy Agreement. This report is provided for the exclusive use of Project Garden 1 Pty Ltd ATF Norwest Property Trust for this project only and for the purposes described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of Douglas, does so entirely at its own risk and without recourse to Douglas for any loss or damage. In preparing this report, Douglas has necessarily relied upon information provided by the client and their agents.

The scope of work for this investigation/report did not include the assessment of surface or sub-surface materials or groundwater for contaminants, within or adjacent to the site. Should evidence of fill of unknown origin be noted in the report, and in particular the presence of building demolition materials, it should be recognised that there may be some risk that such fill may contain contaminants and hazardous building materials.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after Douglas' field testing has been completed.

Douglas' advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by Douglas in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

The assessment of atypical safety hazards arising from this advice is restricted to the geotechnical components set out in this report and based on known project conditions and stated design advice and assumptions. While some recommendations for safe controls may be provided, detailed 'safety in design' assessment is outside the current scope of this report and requires additional project data and assessment.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. Douglas cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by Douglas. This is because this report has been written as advice and opinion rather than instructions for construction.

Appendix A

About This Report

Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

Copyright

This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;
- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at

the time of construction as are indicated in the report; and

- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

continued next page

About this Report

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

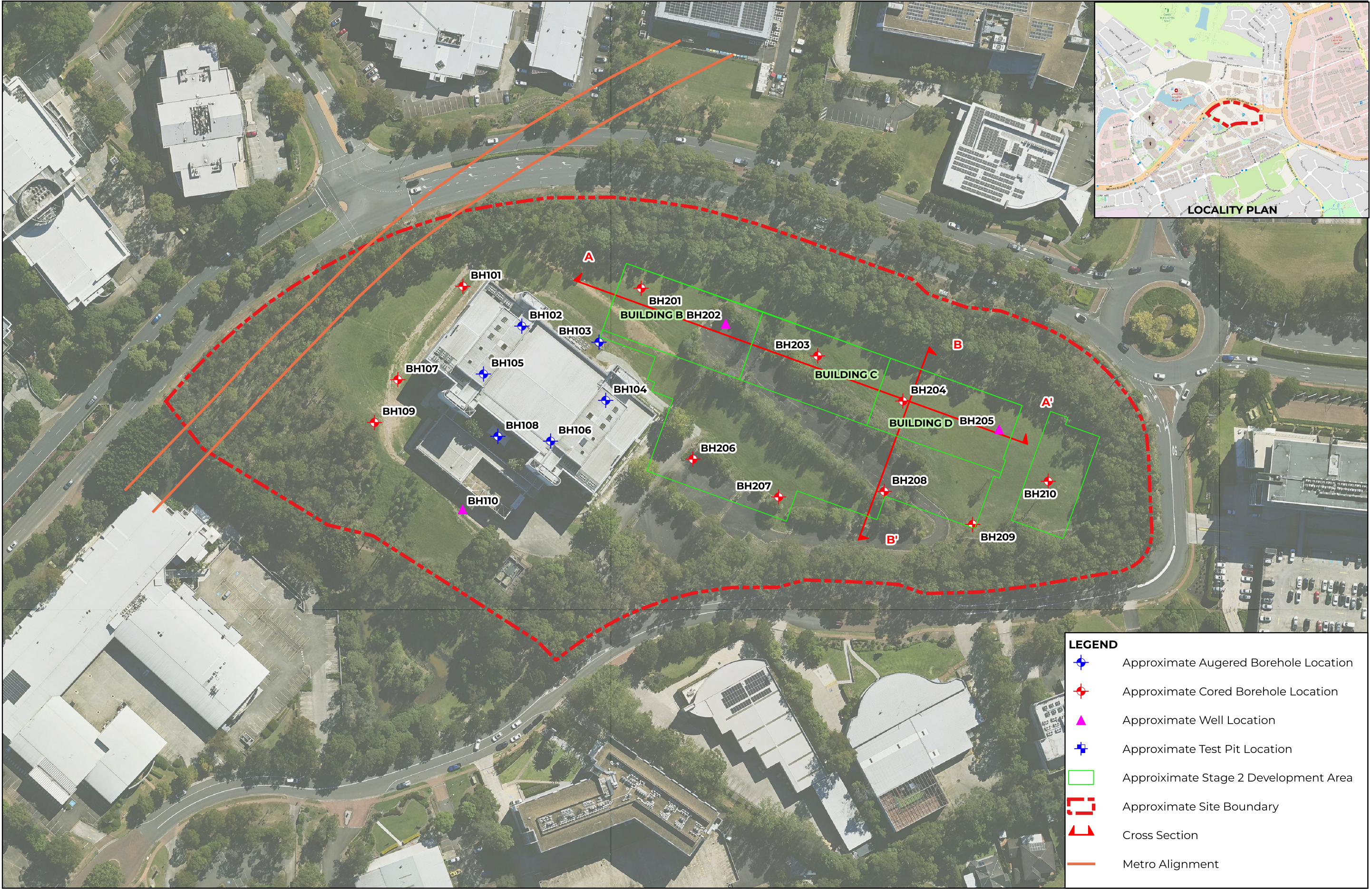
The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

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Appendix B

Drawings



REV	DESCRIPTION/COMMENT	DATE	DRAWN BY
0	Initial Issue	10.09.2025	MN

SCALE:

0

15

30

45

60 m

1:1500 @ A3

N



Douglas
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**Project Garden 1 Pty Ltd ATF
The Norwest Property Trust**

NOTE:

1: Basemap from -Metromap (Dated 06.04.2025)
2: Development outlines from Greenbox Architects, Job No. 230062, Drawing No.0033, Issue 00 (Dated 06.09.2025)

COORDINATE REFERENCE SYSTEM: GDA2020 / MGA zone 56

PROJECT NAME:

Green Square DC SYDGPU1

PROJECT ADDRESS:

**3 Brookhollow Ave,
Norwest**

DRAWING TITLE:

Test Location Plan

PROJECT NO:

233937.00

DRAWING NO:

1

REVISION:

1

Appendix C

Relevant Field Work Results

Introduction to Terminology, Symbols and Abbreviations

Douglas Partners' reports, investigation logs, and other correspondence may use terminology which has quantitative or qualitative connotations. To remove ambiguity or uncertainty surrounding the use of such terms, the following sets of notes pages may be attached Douglas Partners' reports, depending on the work performed and conditions encountered:

- Soil Descriptions;
- Rock Descriptions; and
- Sampling, insitu testing, and drilling methodologies

In addition to these pages, the following notes generally apply to most documents.

Abbreviation Codes

Site conditions may also be presented in a number of different formats, such as investigation logs, field mapping, or as a written summary. In some of these formats textual or symbolic terminology may be presented using textual abbreviation codes or graphic symbols, and, where commonly used, these are listed alongside the terminology definition. For ease of identification in these note pages, textual codes are presented in these notes in the following style **XW**. Code usage conforms with the following guidelines:

- Textual codes are case insensitive, although herein they are generally presented in upper case; and
- Textual codes are contextual (i.e. the same or similar combinations of characters may be used in different contexts with different meanings (for example `PL` is used for plastic limit in the context of soil moisture condition, as well as in `PL(A)` for point load test result in the testing results column)).

Data Integrity Codes

Subsurface investigation data recorded by Douglas Partners is generally managed in a highly structured database environment, where records "span" between a top and bottom depth interval. Depth interval "gaps" between records are considered to introduce ambiguity, and, where appropriate, our practice guidelines may require contiguous data sets. Recording meaningful data is not always appropriate (for example assigning a "strength" to a concrete pavement) and the following codes may be used to maintain contiguity in such circumstances.

Term	Description	Abbreviation Code
Core loss	No core recovery	KL
Unknown	Information was not available to allow classification of the property. For example, when auguring in loose, saturated sand auger cuttings may not be returned.	UK
No data	Information required to allow classification of the property was not available. For example, if drilling is commenced from the base of a hole predrilled by others	ND
Not Applicable	Derivation of the properties not appropriate or beyond the scope of the investigation. For example, providing a description of the strength of a concrete pavement	NA

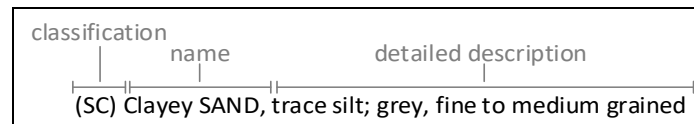
Graphic Symbols

Douglas Partners' logs contain a "graphic" column which provides a pictorial representation of the basic composition of the material. The symbols used are directly representing the material name stated in the adjacent "Description of Strata" column, and as such no specific graphic symbology legend has been provided in these notes.

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Introduction

All materials which are not considered to be “in-situ rock” are described in general accordance with the soil description model of AS 1726-2017 Part 6.1.3, and can be broken down into the following description structure:



The “classification” comprises a two character “group symbol” providing a general summary of dominant soil characteristics. The “name” summarises the particle sizes within the soil which most influence its behaviour. The detailed description presents more information about composition, condition, structure, and origin of the soil.

Classification, naming and description of soils require the relative proportion of particles of different sizes within the whole soil mixture to be considered.

Particle size designation and Behaviour Model

Solid particles within a soil are differentiated on the basis of size.

The engineering behaviour properties of a soil can subsequently be modelled to be either “fine grained” (also known as “cohesive” behaviour) or “coarse grained” (“non cohesive” behaviour), depending on the relative proportion of fine or coarse fractions in the soil mixture.

Particle Size Designation	Particle Size (mm)	Behaviour Model	
		Behaviour	Approximate Dry Mass
Boulder	>200	Excluded from particle behaviour model as “oversize”	
Cobble	63 - 200		
Gravel ¹	2.36 - 63	Coarse	>65%
Sand ¹	0.075 - 2.36		
Silt	0.002 - 0.075	Fine	>35%
Clay	<0.002		

¹ – refer grain size subdivision descriptions below

The behaviour model boundaries defined above are not precise, and the material behaviour should be assumed from the name given to the material (which considers the particle fraction which dominates the behaviour, refer “component proportions” below), rather than strict observance of the proportions of particle sizes. For example, if a material is named a “Sandy CLAY”, this is indicative that the material exhibits fine grained behaviour, even if the dry mass of coarse grained material may exceed 65%.

Component proportions

The relative proportion of the dry mass of each particle size fraction is assessed to be a “primary”, “secondary”, or “minor” component of the soil mixture, depending on its influence over the soil behaviour.

Component Proportion Designation	Definition ¹	Relative Proportion	
		In Fine Grained Soil	In Coarse Grained Soil
Primary	The component (particle size designation, refer above) which dominates the engineering behaviour of the soil	The clay/silt component with the greater proportion	The sand/gravel component with the greater proportion
Secondary	Any component which is not the primary, but is significant to the engineering properties of the soil	Any component with greater than 30% proportion	Any granular component with greater than 30%; or Any fine component with greater than 12%
Minor ²	Present in the soil, but not significant to its engineering properties	All other components	All other components

¹ As defined in AS1726-2017 6.1.4.4

² In the detailed material description, minor components are split into two further sub-categories. Refer “identification of minor components” below.

Composite Materials

In certain situations, a lithology description may describe more than one material, for example, collectively describing a layer of interbedded sand and clay. In such a scenario, the two materials would be described independently, with the names preceded or followed by a statement describing the arrangement by which the materials co-exist. For example, “INTERBEDDED Silty CLAY AND SAND”.

Classification

The soil classification comprises a two character group symbol. The first character identifies the primary component. The second character identifies either the grading or presence of fines in a coarse grained soil, or the plasticity in a fine grained soil. Refer AS1726-2017 6.1.6 for further clarification.

Soil Name

For most soils, the name is derived with the primary component included as the noun (in upper case), preceded by any secondary components stated in an adjective form. In this way, the soil name also describes the general composition and indicates the dominant behaviour of the material.

Component ¹	Prominence in Soil Name
Primary	Noun (eg "CLAY")
Secondary	Adjective modifier (eg "Sandy")
Minor	No influence

¹ – for determination of component proportions, refer component proportions on previous page

For materials which cannot be disaggregated, or which are not comprised of rock or mineral fragments, the names "ORGANIC MATTER" or "ARTIFICIAL MATERIAL" may be used, in accordance with AS1726-2017 Table 14.

Commercial or colloquial names are not used for the soil name where a component derived name is possible (for example "Gravelly SAND" rather than "CRACKER DUST").

Materials of "fill" or "topsoil" origin are generally assigned a name derived from the primary/secondary component (where appropriate). In log descriptions this is preceded by uppercase "FILL" or "TOPSOIL". Origin uncertainty is indicated in the description by the characters (?), with the degree of uncertainty described (using the terms "probably" or "possibly" in the origin column, or at the end of the description).

Identification of minor components

Minor components are identified in the soil description immediately following the soil name. The minor component fraction is usually preceded with a term indicating the relative proportion of the component.

Minor Component Proportion Term	Relative Proportion	
	In Fine Grained Soil	In Coarse Grained Soil
With	All fractions: 15-30%	Clay/silt: 5-12% sand/gravel: 15-30%
Trace	All fractions: 0-15%	Clay/silt: 0-5% sand/gravel: 0-15%

The terms "with" and "trace" generally apply only to gravel or fine particle fractions. Where cobbles/boulders are encountered in minor proportions (generally less than about 12%) the term "occasional" may be used. This term describes the sporadic distribution of the material within the confines of the investigation excavation only, and there may be considerable variation in proportion over a wider area which is difficult to factually characterise due to the relative size of the particles and the investigation methods.

Soil Composition

Plasticity

Descriptive Term	Laboratory liquid limit range	
	Silt	Clay
Non-plastic materials	Not applicable	Not applicable
Low plasticity	≤50	≤35
Medium plasticity	Not applicable	>35 and ≤50
High plasticity	>50	>50

Note, Plasticity descriptions generally describe the plasticity behaviour of the whole of the fine grained soil, not individual fine grained fractions.

Grain Size

Type	Particle size (mm)	
	Coarse	Fine
Gravel	19 - 63	6.7 - 19
	Medium	2.36 - 6.7
Sand	0.6 - 2.36	0.21 - 0.6
	Medium	0.075 - 0.21
	Fine	

Grading

Grading Term	Particle size (mm)
Well	A good representation of all particle sizes
Poorly	An excess or deficiency of particular sizes within the specified range
Uniformly	Essentially of one size
Gap	A deficiency of a particular size or size range within the total range

Note, AS1726-2017 provides terminology for additional attributes not listed here.

Soil Condition

Moisture

The moisture condition of soils is assessed relative to the plastic limit for fine grained soils, while for coarse grained soils it is assessed based on the appearance and feel of the material. The moisture condition of a material is considered to be independent of stratigraphy (although commonly these are related), and this data is presented in its own column on logs.

Applicability	Term	Tactile Assessment	Abbreviation code
Fine	Dry of plastic limit	Hard and friable or powdery	w<PL
	Near plastic limit	Can be moulded	w=PL
	Wet of plastic limit	Water residue remains on hands when handling	w>PL
	Near liquid limit	"oozes" when agitated	w=LL
	Wet of liquid limit	"oozes"	w>LL
Coarse	Dry	Non-cohesive and free running	D
	Moist	Feels cool, darkened in colour, particles may stick together	M
	Wet	Feels cool, darkened in colour, particles may stick together, free water forms when handling	W

The abbreviation code **NDF**, meaning "not-assessable due to drilling fluid use" may also be used.

Note, observations relating to free ground water or drilling fluids are provided independent of soil moisture condition.

Consistency/Density/Compaction/Cementation/Extremely Weathered Material

These concepts give an indication of how the material may respond to applied forces (when considered in conjunction with other attributes of the soil). This behaviour can vary independent of the composition of the material, and on logs these are described in an independent column and are generally mutually exclusive (i.e it is inappropriate to describe both consistency and compaction at the same time). The method by which the behaviour is described depends on the behaviour model and other characteristics of the soil as follows:

- In fine grained soils, the "consistency" describes the ease with which the soil can be remoulded, and is generally correlated against the materials undrained shear strength;
- In granular materials, the relative density describes how tightly packed the particles are, and is generally correlated against the density index;
- In anthropogenically modified materials, the compaction of the material is described qualitatively;
- In cemented soils (both natural and anthropogenic), the cemented "strength" is described qualitatively, relative to the difficulty with which the material is disaggregated; and
- In soils of extremely weathered material origin, the engineering behaviour may be governed by relic rock features, and expected behaviour needs to be assessed based the overall material description.

Quantitative engineering performance of these materials may be determined by laboratory testing or estimated by correlated field tests (for example penetration or shear vane testing). In some cases, performance may be assessed by tactile or other subjective methods, in which case investigation logs will show the estimated value enclosed in round brackets, for example (VS).

Consistency (fine grained soils)

Consistency Term	Tactile Assessment	Undrained Shear Strength (kPa)	Abbreviation Code
Very soft	Extrudes between fingers when squeezed	<12	VS
Soft	Mouldable with light finger pressure	>12 - ≤25	S
Firm	Mouldable with strong finger pressure	>25 - ≤50	F
Stiff	Cannot be moulded by fingers	>50 - ≤100	St
Very stiff	Indented by thumbnail	>100 - ≤200	VSt
Hard	Indented by thumbnail with difficulty	>200	H
Friable	Easily crumbled or broken into small pieces by hand	-	Fr

Relative Density (coarse grained soils)

Relative Density Term	Density Index	Abbreviation Code
Very loose	<15	VL
Loose	>15 - ≤35	L
Medium dense	>35 - ≤65	MD
Dense	>65 - ≤85	D
Very dense	>85	VD

Note, tactile assessment of relative density is difficult, and generally requires penetration testing, hence a tactile assessment guide is not provided.

Compaction (anthropogenically modified soil)

Compaction Term	Abbreviation Code
Well compacted	WC
Poorly compacted	PC
Moderately compacted	MC
Variably compacted	VC

Cementation (natural and anthropogenic)

Cementation Term	Abbreviation Code
Moderately cemented	MOD
Weakly cemented	WEK

Extremely Weathered Material

AS1726-2017 considers weathered material to be soil if the unconfined compressive strength is less than 0.6 MPa (i.e. less than very low strength rock). These materials may be identified as “extremely weathered material” in reports and by the abbreviation code **XWM** on log sheets. This identification is not correlated to any specific qualitative or quantitative behaviour, and the engineering properties of this material must therefore be assessed according to engineering principles with reference to any relic rock structure, fabric, or texture described in the description.

Soil Origin

Term	Description	Abbreviation Code
Residual	Derived from in-situ weathering of the underlying rock	RS
Extremely weathered material	Formed from in-situ weathering of geological formations. Has strength of less than ‘very low’ as per as1726 but retains the structure or fabric of the parent rock.	XWM
Alluvial	Deposited by streams and rivers	ALV
Estuarine	Deposited in coastal estuaries	EST
Marine	Deposited in a marine environment	MAR
Lacustrine	Deposited in freshwater lakes	LAC
Aeolian	Carried and deposited by wind	AEO
Colluvial	Soil and rock debris transported down slopes by gravity	COL
Slopewash	Thin layers of soil and rock debris gradually and slowly deposited by gravity and possibly water	SW
Topsoil	Mantle of surface soil, often with high levels of organic material	TOP
Fill	Any material which has been moved by man	FILL
Littoral	Deposited on the lake or seashore	LIT
Unidentifiable	Not able to be identified	UID

Cobbles and Boulders

The presence of particles considered to be “oversize” may be described using one of the following strategies:

- Oversize encountered in a minor proportion (when considered relative to the wider area) are noted in the soil description; or
- Where a significant proportion of oversize is encountered, the cobbles/boulders are described independent of the soil description, in a similar manner to composite soils (described above) but qualified with “MIXTURE OF”.

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Rock Strength

Rock strength is defined by the unconfined compressive strength, and it refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects.

The Point Load Strength Index $I_{s(50)}$ is commonly used to provide an estimate of the rock strength and site specific correlations should be developed to allow UCS values to be determined. The point load strength test procedure is described by Australian Standard AS4133.4.1-2007. The terms used to describe rock strength are as follows:

Strength Term	Unconfined Compressive Strength (MPa)	Point Load Index ¹ $I_{s(50)}$ MPa	Abbreviation Code
Very low	0.6 - 2	0.03 - 0.1	VL
Low	2 - 6	0.1 - 0.3	L
Medium	6 - 20	0.3 - 1.0	M
High	20 - 60	1 - 3	H
Very high	60 - 200	3 - 10	VH
Extremely high	>200	>10	EH

¹ Rock strength classification is based on UCS. The UCS to $I_{s(50)}$ ratio varies significantly for different rock types and specific ratios may be required for each site. The point load Index ranges shown above are as suggested in AS1726 and should not be relied upon without supporting evidence.

The following abbreviation codes are used for soil layers or seams of material “within rock” but for which the equivalent UCS strength is less than 0.6 MPa.

Scenario	Abbreviation Code
The material encountered has an equivalent UCS strength of less than 0.6 MPa, and therefore is considered to be soil (as per Note 1 of Table 20 of AS 1726-2017). The properties of the material encountered over this interval are described in the “Description of Strata” and soil properties columns.	SOIL
The material encountered has an equivalent UCS strength of less than 0.6 MPa, and therefore is considered to be soil (as per Note 1 of Table 20 of AS 1726-2017). The prominence of the material is such that it can be considered to be a seam (as defined in Table 22 of AS1726-2017) and the properties of the material are described in the defect column.	SEAM

Degree of Weathering

The degree of weathering of rock is classified as follows:

Weathering Term	Description	Abbreviation Code
Residual Soil ¹	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are no longer visible, but the soil has not been significantly transported.	RS
Extremely weathered ¹	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible	XW
Highly weathered	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is significantly changed by weathering. Some primary minerals have weathered to clay minerals. Porosity may be increased by leaching or may be decreased due to deposition of weathering products in pores.	HW
Moderately weathered	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable but shows little or no change of strength from fresh rock.	MW
Slightly weathered	Rock is partially discoloured with staining or bleaching along joints but shows little or no change of strength from fresh rock.	SW
Fresh	No signs of decomposition or staining.	FR
Note: If HW and MW cannot be differentiated use DW (see below)		
Distinctly weathered	Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching or may be decreased due to deposition of weathered products in pores.	DW

¹ The parent rock type, of which the residual/extremely weathered material is a derivative, will be stated in the description (where discernible).

Degree of Alteration

The degree of alteration of the rock material (physical or chemical changes caused by hot gasses or liquids at depth) is classified as follows:

Term	Description	Abbreviation Code
Extremely altered	Material is altered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible.	XA
Highly altered	The whole of the rock material is discoloured, usually by staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is changed by alteration. Some primary minerals are altered to clay minerals. Porosity may be increased by leaching or may be decreased due to precipitation of secondary materials in pores.	HA
Moderately altered	The whole of the rock material is discoloured, usually by staining or bleaching to the extent that the colour of the original rock is not recognisable but shows little or no change of strength from fresh rock.	MA
Slightly altered	Rock is slightly discoloured but shows little or no change of strength from fresh rock	SA
Note: If HA and MA cannot be differentiated use DA (see below)		
Distinctly altered	Rock strength usually changed by alteration. The rock may be highly discoloured, usually by staining or bleaching. Porosity may be increased by leaching or may be decreased due to precipitation of secondary minerals in pores.	DA

Degree of Fracturing

The following descriptive classification apply to the spacing of natural occurring fractures in the rock mass. It includes bedding plane partings, joints and other defects, but excludes drilling breaks. These terms are generally not required on investigation logs where fracture spacing is presented as a histogram, and where used are presented in an unabbreviated format.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with occasional fragments
Fractured	Core lengths of 30-100 mm with occasional shorter and longer sections
Slightly Fractured	Core lengths of 300 mm or longer with occasional sections of 100-300 mm
Unbroken	Core contains very few fractures

Rock Quality Designation

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index, defined as:

$$RQD \% = \frac{\text{cumulative length of 'sound' core sections} > 100 \text{ mm long}}{\text{total drilled length of section being assessed}}$$

where 'sound' rock is assessed to be rock of low strength or stronger. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e., drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

Stratification Spacing

These terms may be used to describe the spacing of bedding partings in sedimentary rocks. Where used, these terms are generally presented in an unabbreviated format

Term	Separation of Stratification Planes
Thinly laminated	< 6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	> 2 m

Rock Descriptions

Terminology
Symbols
Abbreviations

Defect Descriptions

Defect Type

Term	Abbreviation Code
Bedding plane	B
Infilled seam	IS
Cleavage	CV
Crushed zone	CZ
Decomposed seam	DS
Fault	F
Joint	JT
Lamination	LAM
Parting	P
Shear zone	SZ
Vein	VN
Drilling/handling break	DB , HB
Fracture	FC

Rock Defect Orientation

Term	Abbreviation Code
Horizontal	H
Vertical	V
Sub-horizontal	SH
Sub-vertical	SV

Rock Defect Coating

Term	Abbreviation Code
Clean	CN
Coating	CT
Healed	HE
Infilled	INF
Stained	SN
Tight	TI
Veneer	VNR

Rock Defect Infill

Term	Abbreviation Code
Calcite	CA
Carbonaceous	CBS
Clay	CLAY
Iron oxide	FE
Manganese	MN

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Rock Defect Shape/Planarity

Term	Abbreviation Code
Curved	CU
Irregular	IR
Planar	PR
Stepped	ST
Undulating	UN

Rock Defect Roughness

Term	Abbreviation Code
Polished	PO
Rough	RF
Slickensided	SL
Smooth	SM
Very rough	VR

Defect Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

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Sampling and Testing

A record of samples retained, and field testing performed is usually shown on a Douglas Partners' log with samples appearing to the left of a depth scale, and selected field and laboratory testing (including results, where relevant) appearing to the right of the scale, as illustrated below:

SAMPLE			DEPTH (m)	TESTING	
SAMPLE REMARKS	TYPE	INTERVAL		TEST TYPE	RESULTS AND REMARKS
	SPT		1.0 1.45	SPT	4,9,11 N=20

Sampling

The type or intended purpose for which a sample was taken is indicated by the following abbreviation codes.

Sample Type	Code
Auger sample	A
Bulk sample	B
Core sample	C
Disturbed sample	D
Sample from SPT test	SPT
Environmental sample	ES
Gas sample	G
Undisturbed tube sample	U ¹
Water sample	W
Piston sample	P
Core sample for unconfined compressive strength testing	UCS
Material Sample	MT

¹ – numeric suffixes indicate tube diameter/width in mm

The above codes only indicate that a sample was retained, and not that testing was scheduled or performed.

Field and Laboratory Testing

A record that field and laboratory testing was performed is indicated by the following abbreviation codes.

Test Type	Code
Pocket penetrometer (kPa)	PP
Photo ionisation detector (ppm)	PID
Standard Penetration Test x/y = x blows for y mm penetration HB = hammer bouncing HW = fell under weight of hammer	SPT
Shear vane (kPa)	V
Unconfined compressive strength, (MPa)	UCS

Field and laboratory testing (continued)

Test Type	Code
Point load test, (MPa), axial (A), diametric (D), irregular (I)	PLT(L)
Dynamic cone penetrometer, followed by blow count penetration increment in mm (cone tip, generally in accordance with AS1289.6.3.2)	DCP/150
Perth sand penetrometer, followed by blow count penetration increment in mm (flat tip, generally in accordance with AS1289.6.3.3)	PSP/150

Groundwater Observations

▷	seepage/inflow
▽	standing or observed water level
NFGWO	no free groundwater observed
OBS	observations obscured by drilling fluids

Drilling or Excavation Methods/Tools

The drilling/excavation methods used to perform the investigation may be shown either in a dedicated column down the left-hand edge of the log, or stated in the log footer. In some circumstances abbreviation codes may be used.

Method	Abbreviation Code
Toothed bucket	TB ¹
Mud/blade bucket	MB ¹
Ripping tyne/ripper	R
Rock breaker/hydraulic hammer	RB
Hand auger	HA ¹
NMLC series coring	NMLC
HMLC series coring	HMLC
NQ coring	NQ3
HQ coring	HQ3
PQ coring	PQ3
Push tube	PT ¹
Rock roller	RR ¹
Solid flight auger. Suffixes: /T = tungsten carbide tip, /V = v-shaped tip	AD ¹
Sonic drilling	SON ¹
Vibrocore	VC ¹
Wash bore (unspecified bit type)	WB ¹
Existing exposure	X
Hand tools (unspecified)	HAND
Predrilled	PD
Diatube	DT ¹
Hollow flight auger	HSA ¹
Vacuum excavation	VE

¹ – numeric suffixes indicate tool diameter/width in mm

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 89.0 AHD
COORDINATE: E:311663.0, N:6265608.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH110
PROJECT No: 233937.00
DATE: 20/05/25
SHEET: 1 of 3

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS						
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ⁽¹⁾ DENSITY. ⁽¹⁾	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
RL (m)															
20/05/25	0.15	TOPSOIL / Silty CLAY trace rootlets trace gravel: dark brown; medium plasticity; fine to coarse, igneous and siltstone gravel; Topsoil Fill.	TS	TOP	ND	w=PL									
					(MC)			D	0.40 0.50						
	1	FILL / CLAY with gravel: brown; medium plasticity; fine to coarse, igneous and siltstone gravel.								1	SPT	4,4,5 N=9			
	2				MC			D	1.90 2.00						
	3				PC	w>PL				3	SPT	0,1,2 N=3			
	4									4					
	4.50	CLAY (CI-CH): grey pale grey mottled yellow-brown; medium to high plasticity.							D	4.40 4.50					
	5				RS	F to St	w=PL				5		3,3,4 N=7		
									B						
	6					VSt					6	SPT	6,13,19 N=32		
	6.40	SILTSTONE: grey and red-brown; inferred very low strength, iron stained. Ashfield shale.									6.40				
7					NA	NA				7	SPT	24,25,25 N=50			
7.50	Continued as rock log														
8										8					
9										9					

NOTES: #Soil origin is "probable" unless otherwise stated. °Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geo205
METHOD: SFA (115mm) to 7.0m, NMLC to 10.5m
REMARKS: Grass cover at surface

OPERATOR: Terratest (K.Mccorron)

LOGGED: R.Muller
CASING: HWT to 7.1m

Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 89.0 AHD
COORDINATE: E:311663.0, N:6265608.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH110
PROJECT No: 233937.00
DATE: 20/05/25
SHEET: 2 of 3

CONDITIONS ENCOUNTERED										SAMPLE				TESTING						
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered) SOIL MOISTURE	GRAPHIC	WEATH. BS XW HW MW SW FR	DEPTH (m)	STRENGTH VL M H VH EH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
	20/05/25	88 87 86 85 84 83 82 81 80	1 2 3 4 5 6 7 Continued from soil log SILTSTONE: red-brown and orange-brown; iron stained. Ashfield shale. SILTSTONE: dark grey; 5-15% fine grain, pale grey sandstone laminations, occasional iron staining. Ashfield shale.																	
									</											

NOTES: (#) Soil origin is "probable" unless otherwise stated.

PLANT: Geo205
METHOD: SFA (115mm) to 7.0m, NMLC to 10.5m
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Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd

PROJECT: Green Square DC SYDGPU1

LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 89.0 AHD

COORDINATE: E:311663.0, N:6265608.0

DATUM/GRID: MGA2020 Zone 56

DIP/AZIMUTH: 90°/---°

LOCATION ID: BH110

PROJECT No: 233937.00

DATE: 20/05/25

SHEET: 3 of 3

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	CONDITIONS ENCOUNTERED										SAMPLE			TESTING						
				SOIL STRENGTH (where encountered)		SOIL MOISTURE		GRAPHIC	WEATH.		DEPTH (m)	STRENGTH		RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
			[CONT] SILTSTONE: dark grey; 5-15% fine grain, pale grey sandstone laminations, occasional iron staining. Ashfield shale.																				
	78	11	Borehole discontinued at 10.50m depth.																				
	77	12																					
	76	13																					
	75	14																					
	74	15																					
	73	16																					
	72	17																					
	71	18																					
	70	19																					

NOTES: [Ⓘ]Soil origin is "probable" unless otherwise stated.

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Geo205

METHOD: SFA (115mm) to 7.0m, NMLC to 10.5m

REMARKS: Grass cover at surface

OPERATOR: Terratest (K.Mccorron)

LOGGED: R.Muller

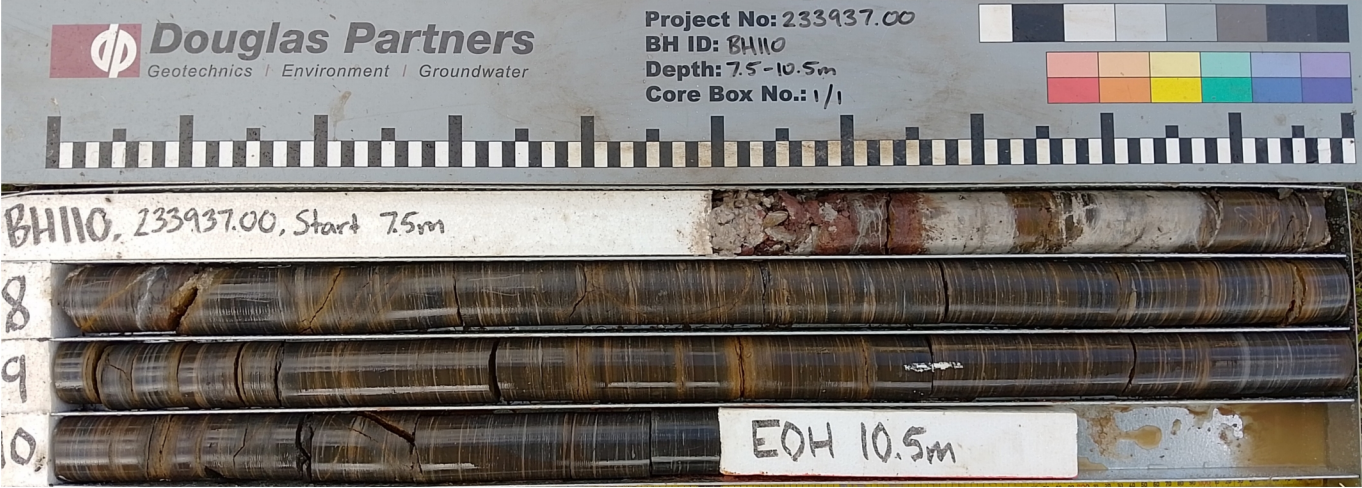
CASING: HWT to 7.1m

CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 89.0 AHD
COORDINATE: E:311663.0, N:6265608.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH110
PROJECT No: 233937.00
DATE: 20/05/25
SHEET: 1 of 1



BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.1 AHD
COORDINATE: E:311737.8, N:6265699.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH201
PROJECT No: 233937.00
DATE: 11/07/25
SHEET: 1 of 3

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS					
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(%)	CONSIS. ^(*) DENSITY, ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS		
11/07/25 No Free Groundwater Observed While Augering	95	0.20	TOPSOIL / Silty CLAY trace grass roots: grey-brown; medium plasticity.		TS	TOP	ND	M		A	0.10		SPT 11,18,25/120 R		
			CLAY (CH): brown; high plasticity.		RS	(St)	w=PL			A	0.40 0.50				
		0.55	CLAY (CI): pale grey-brown; medium plasticity.							A	0.90 1.00				
		1								SPT	1.42				
		2.00	Continued as rock log									2			
		3										3			
		4										4			
		5										5			
		6										6			
		7										7			
		8										8			
		9										9			
	NOTES: ^(*) Soil origin is "probable" unless otherwise stated. ^(*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.														

NOTES: [®]Soil origin is "probable" unless otherwise stated. [°]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 15.67m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.1 AHD
COORDINATE: E:311737.8, N:6265699.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH201
PROJECT No: 233937.00
DATE: 11/07/25
SHEET: 2 of 3

[illegible]

NOTES: (M) Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 15.67m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.1 AHD
COORDINATE: E:311737.8, N:6265699.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH201
PROJECT No: 233937.00
DATE: 11/07/25
SHEET: 3 of 3

CONDITIONS ENCOUNTERED													SAMPLE			TESTING				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered) SOIL MOISTURE	GRAPHIC	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
	85		[CONT] SILTSTONE: grey to dark grey; with 5% sandstone laminations. Ashfield Shale.														PLT	PL(A)=0.60MPa		
	84	11							100	100							PLT	PL(A)=0.65MPa		
	83	12															PLT	PL(A)=0.72MPa		
	82	13										12.50m: JT, 60°, PR, 50mm, SM, FG, SZ								
	13.30		SILTSTONE: dark grey; with 20% pale grey fine grained sandstone. Ashfield Shale.									12.70-13.10m: JT, 85°, UN, CN, RF					PLT	PL(A)=1.1MPa		
	81	14										13.15m: JT, 45°, PR, CN, SM								
			13.30m-13.50m: Irregular / disturbed bedding									13.30m: JT, 45°, PR, CN, SM					PLT	PL(A)=2.5MPa		
	80	15										13.30-13.50m: , fault zone								
												13.45m: F, 30°					PLT	PL(A)=2.5MPa		
	79	16	Borehole discontinued at 15.67m depth. Target depth reached.									13.50m: JT, 45-70°, CU, TI, SM								
	78	17																		
	77	18																		
	76	19																		

NOTES: *Soil origin is "probable" unless otherwise stated.

NOTES: *Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 15.67m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

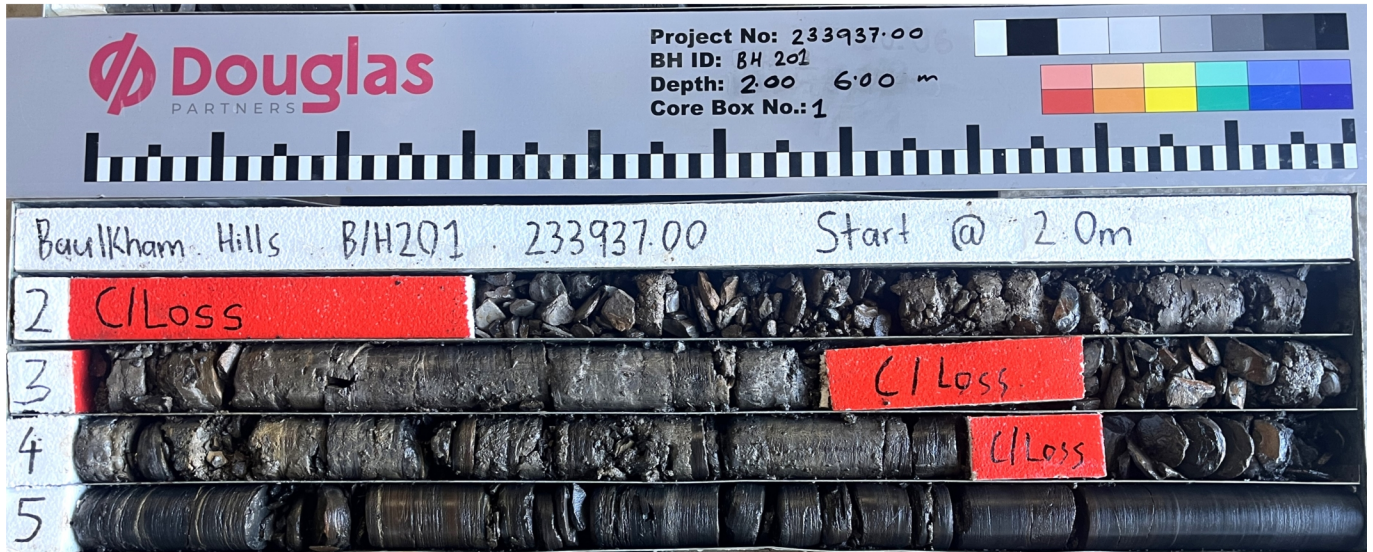
LOGGED: S. Islam
CASING: HW to 1m

CORE PHOTO LOG

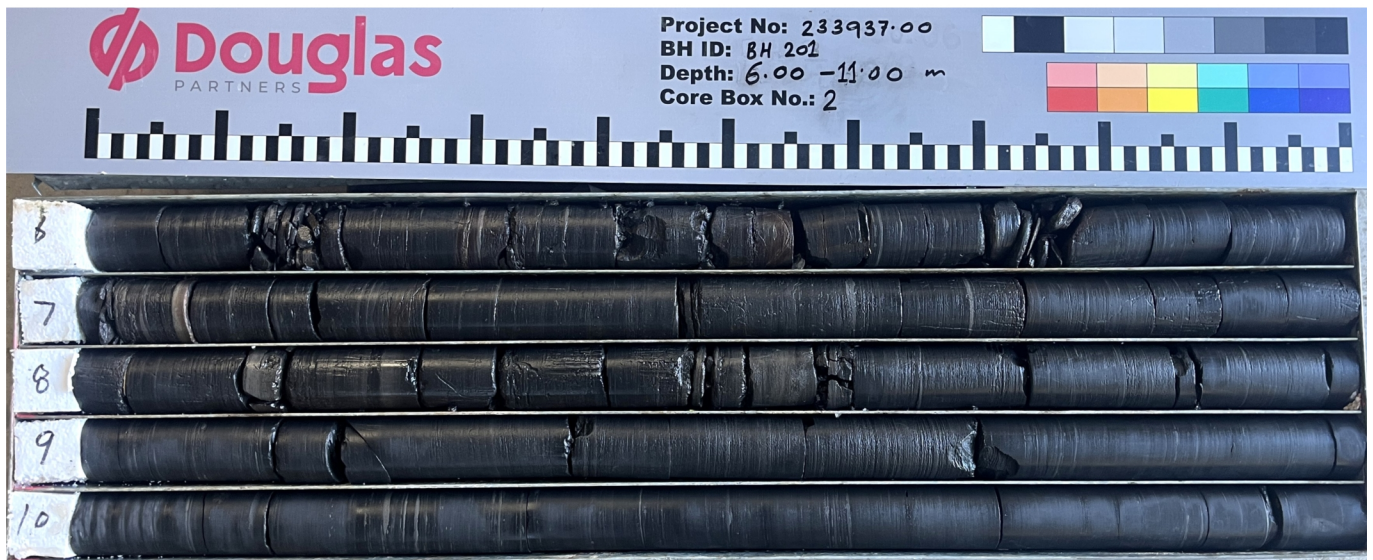
CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.1 AHD
COORDINATE: E:311737.8, N:6265699.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH201
PROJECT No: 233937.00
DATE: 11/07/25
SHEET: 1 of 2



2.00-6.00 m depth



6.00-11.00 m depth

CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.1 AHD
COORDINATE: E:311737.8, N:6265699.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH201
PROJECT No: 233937.00
DATE: 11/07/25
SHEET: 2 of 2



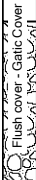
11.00-15.67 m depth

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.0 AHD
COORDINATE: E:311773.0, N:6265685.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH202
PROJECT No: 233937.00
DATE: 17/07/25
SHEET: 1 of 3

CONDITIONS ENCOUNTERED							SAMPLE				TESTING AND REMARKS				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
17/07/25 No Free Groundwater Observed Whilst Augering		0.02	ASPHALTIC CONCRETE; 20 mm thick.		FILL	(WC)	M		A		0.10		25/130 R		
		0.25	FILL / GRAVEL; fine to medium, angular, igneous.		RS	(St)	w=PL		A		0.40				
			CLAY (CH): orange-brown; high plasticity.						B		0.50				
		0.60	SILTSTONE: grey-brown; inferred very low strength.						A		0.90				
			Ashfield Shale.		NA	NA	NA		SPT		1.00				
											1.13				
		1.60	Continued as rock log												
	NOTES: *Soil origin is "probable" unless otherwise stated. ^(*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.														

NOTES: ^(a)Soil origin is "probable" unless otherwise stated. ^(b)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 1.6m, NMLC to 15.10m
REMARKS:

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.0 AHD
COORDINATE: E:311773.0, N:6265685.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH202
PROJECT No: 233937.00
DATE: 17/07/25
SHEET: 2 of 3

[illegible]

NOTES: (M) Soil origin is "probable" unless otherwise stated

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 1.6m, NMLC to 15.10m
REMARKS:

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 1m

Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.0 AHD
COORDINATE: E:311773.0, N:6265685.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH202
PROJECT No: 233937.00
DATE: 17/07/25
SHEET: 3 of 3

CONDITIONS ENCOUNTERED													SAMPLE			TESTING					
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered) SOIL MOISTURE	GRAPHIC	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
			[CONT] SILTSTONE: dark grey; with 5% fine sandstone laminations;. Ashfield Shale.																		
	85	11										10.50m: FG, 0°, 10mm, B					PLT	PL(A)=0.66MPa			
									100	100		11.30m: FG, 0°, 5mm, B					PLT	PL(A)=0.63MPa			
	84	12										12.40m: JT, 45°, UN, CN, RF					PLT	PL(A)=0.38MPa			
	83	13					13.00											PLT	PL(A)=1.0MPa		
	13.80	14	SILTSTONE: dark grey; with 10-20% pale grey fine grained sandstone. Ashfield Shale.				13.80		100	100								PLT	PL(A)=3.0MPa		
	81	15										14.85m: JT, 45°, PR, CN, SM					PLT	PL(A)=2.0MPa			
Borehole discontinued at 15.10m depth. Target depth reached.																					
	80	16																			
	79	17																			
	78	18																			
	77	19																			

NOTES: *Soil origin is "probable" unless otherwise stated.

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 1.6m, NMLC to 15.10m
REMARKS:

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 1m

CORE PHOTO LOG

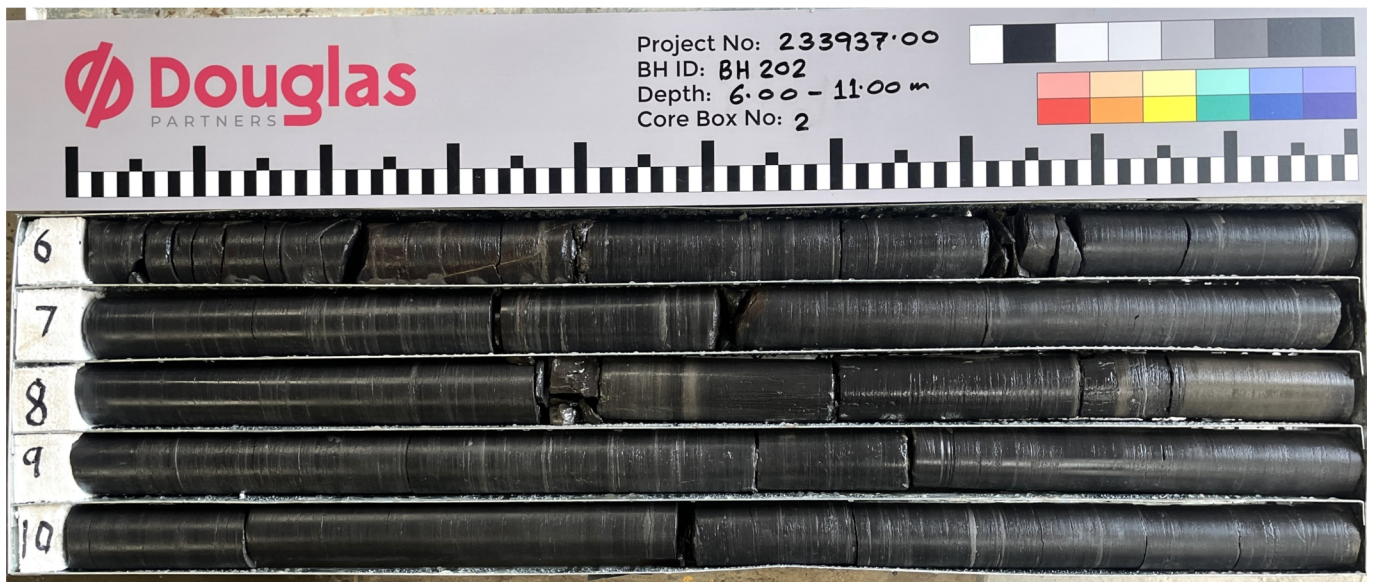
CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.0 AHD
COORDINATE: E:311773.0, N:6265685.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH202
PROJECT No: 233937.00
DATE: 17/07/25
SHEET: 1 of 2



1.60-6.00 m depth



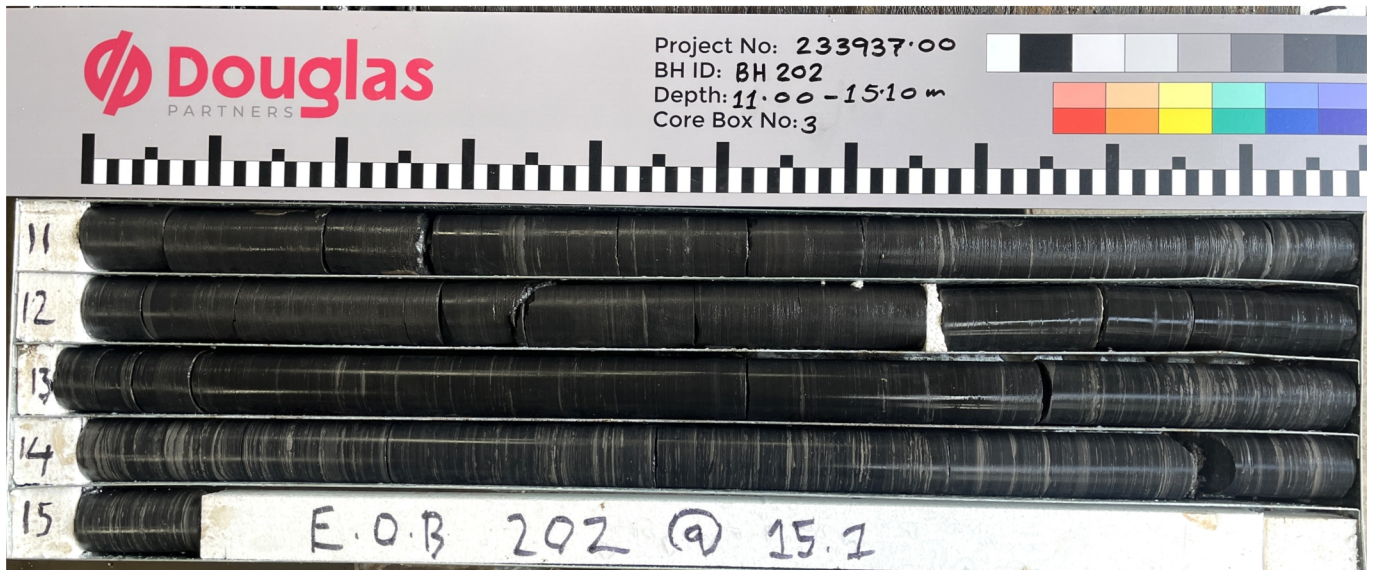
6.00-11.00 m depth

CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.0 AHD
COORDINATE: E:311773.0, N:6265685.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH202
PROJECT No: 233937.00
DATE: 17/07/25
SHEET: 2 of 2



11.00-15.10 m depth

Permeability Testing - Rising or Falling Head Test Report

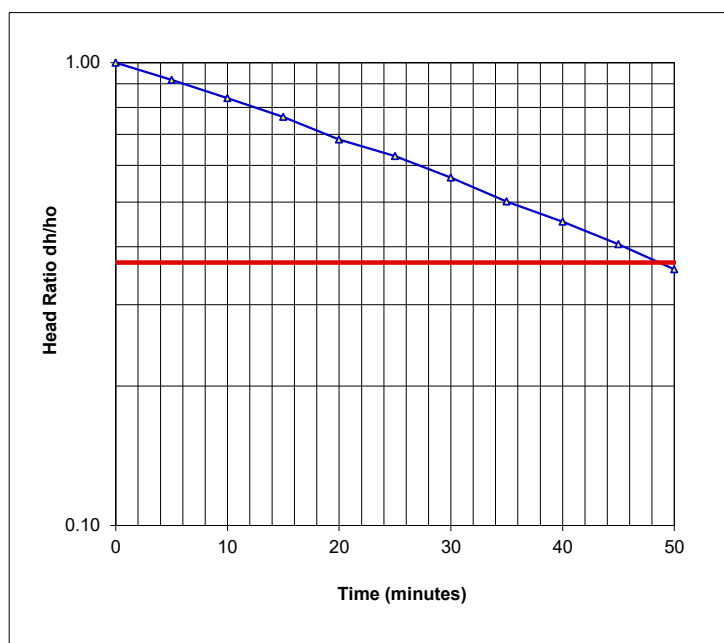
Client:	GreenSquareDC Pty Ltd	Project No:	233937.00
Project:	Green Square DC SYDGPU1	Test date:	28.07.2025
Location:	3 Brookhollow Avenue, Baulkham Hills, NSW	Tested by:	LDS

Test Location	Test No.	BH202	
Description:	Easting:	311773.0	m
Material type:	Northing	6265685.0	m
	Surface Level:	96	m AHD

Details of Well Installation

Effective diameter (2re)	96	mm	Depth to water before test	8.05	m
borehole diameter (2R)	96	mm	Depth to water at start of test	14.34	m
Effective Length of well screen (Le)	4.30	m	Depth to top of gravel pack	10.80	m
			Depth of base of PVC standpipe	15.10	m

Test Results

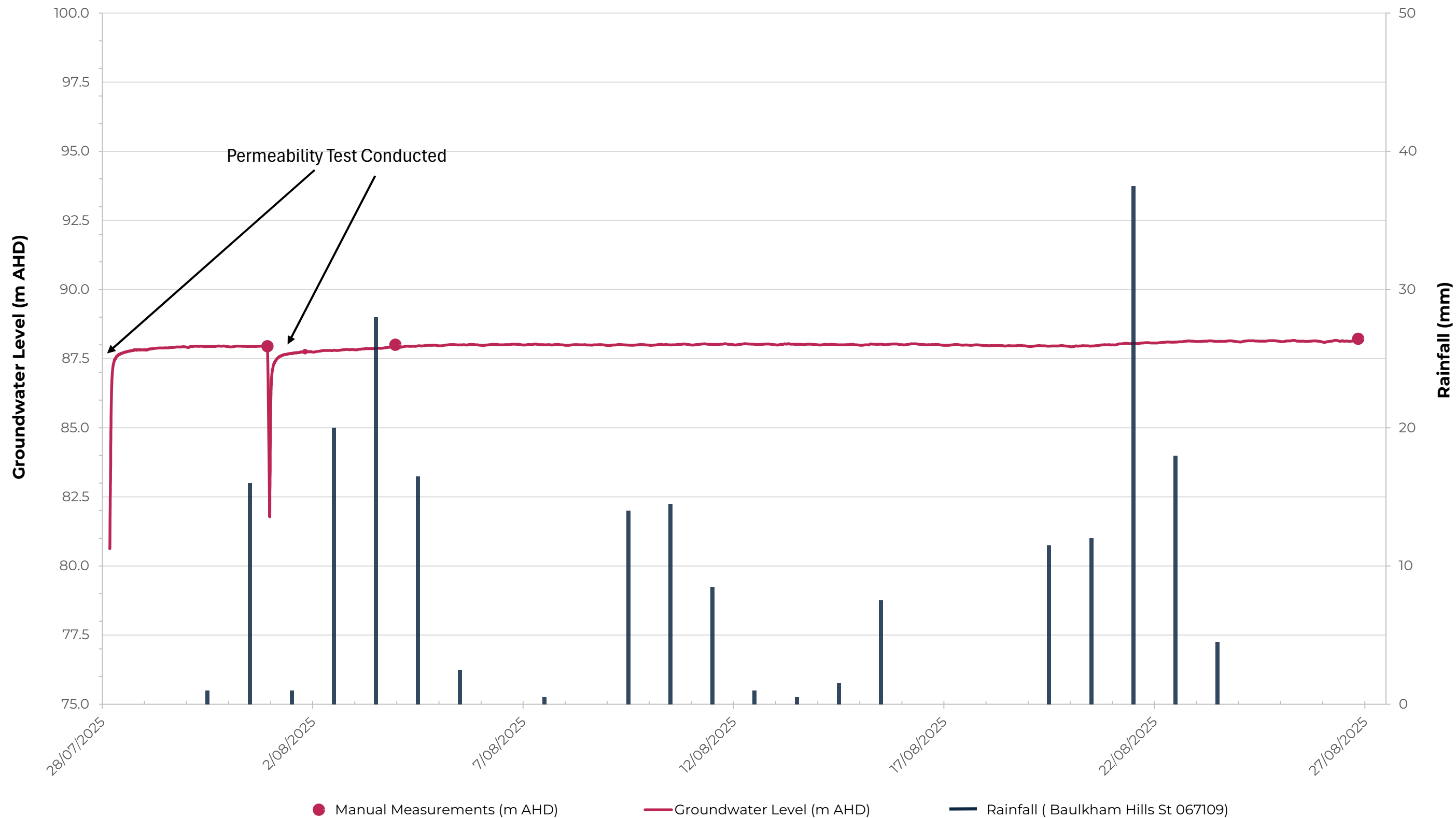
[illegible]

To = 48.7 mins
2922 secs

Theory:	Falling Head Permeability calculated using equation by Hvorslev	
	$k = [r^2 \ln(L_e/R)] / 2L_e T_o$	where r = radius of casing
		R = radius of well screen
		L_e = length of well screen
		T_o = time taken to rise or fall to 37% of initial change

Hydraulic Conductivity	k =	4.1E-07	m/sec
	=	0.036	m/day

BH202



CLIENT: GreenSquareDC Pty Ltd

OFFICE: Sydney

SURFACE LEVEL: 96.0 m AHD

DRAWN BY: L. Sigdel

DATE: 29 August 2025

Groundwater Monitoring 28/07/2025 to 29/08/25

Green Square DC SYDGPU1

3 Brookhollow Avenue, Baulkham Hills, NSW 2153

PROJECT NO: 233937.00

FIGURE NO: 1 of 1

REVISION: Rev1

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 99.2 AHD
COORDINATE: E:311811.4, N:6265671.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH203
PROJECT No: 233937.00
DATE: 14/07/25
SHEET: 1 of 3

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS		
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(%)	CONSIS. ^(*) DENSITY, ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
14/07/25 No Free Groundwater Observed	0.20	TOPSOIL / Silty CLAY trace grass roots: grey-brown; low plasticity.		TOP	ND	w<PL		A		0.10		5,7,8 N=15
		FILL / CLAY trace silt trace sand: grey-brown; medium plasticity; fine sand.		FILL	(MC)	w=PL		A		0.40 0.50		
	1							A		0.90 1.00		
								SPT		1.45	SPT	
	2.00	CLAY (CL): pale grey-brown; low plasticity.		XWM	H	w<PL				2		14,25/130
								SPT		2.50 2.78	SPT	
	3.00	Continued as rock log								3		
	4									4		
	5									5		
	6									6		
	7									7		
	8									8		
	9									9		

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: ^(a)Soil origin is "probable" unless otherwise stated. ^(b)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Explorer
METHOD: AD/T to 2.5m, WB to 3.0m, NMLC to 15.50m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 2.5m, then HQ to 3m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 99.2 AHD
COORDINATE: E:311811.4, N:6265671.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH203
PROJECT No: 233937.00
DATE: 14/07/25
SHEET: 2 of 3

GROUNDWATER	CONDITIONS ENCOUNTERED												SAMPLE				TESTING				
	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (kN/m ²) SOIL MOISTURE	GRAPHIC	FS XW HW MW SW FR	WEATH. DW SW FR	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
14/07/25 No Free Groundwater Observed	99																				
	98	1																			
	97	2																			
	96	3	Continued from soil log																		
	3.40		SILTSTONE: grey-brown; 10% clay seams, Ashfield Shale.							60	33		3.80m: JT, 80°, PR, CN, RF 3.40-4.40m: FG 3.92m: B, 0°, Clay 10mm 3.95m: JT, 70°, UN, CN, RF					PLT	PL(A)=0.13MPa		
	95	4				HW			VL												
	4.45		SILTSTONE: pale grey and grey-brown; 25% clay, Ashfield Shale.										4.40-4.80m: DS								
	94	5				XW		SEAM					4.90m: JT, 45°, SN Fe, TI					PLT	PL(A)=0.21MPa		
	93	6				HW			VL		100	45	5.00-5.55m: B x12, 0°, SN Fe, FG, Clay					PLT	PL(A)=0.52MPa		
	92	7				MW			L				5.60-5.95m: B x5, 0°, SN Fe, Clay CT					PLT	PL(A)=0.56MPa		
	91	8				HW			L				6.00-6.30m: B x3, 0°, Clay 5mm					PLT	PL(A)=0.48MPa		
	90	9											6.45m: JT, 45-80°, CU, CN, RF					PLT	PL(A)=0.73MPa		
	9.25												6.50-6.60m: FG, Clay								
	9.33												6.80m: B, 0°, Fe								
													7.05-7.10m: B x2, 0-5°, SN Fe					PLT	PL(A)=3.0MPa		
												7.55m: JT, 85°, CU, CN, RF, siderite band					PLT	PL(A)=0.67MPa			
												8.20-8.23m: DS					PLT	PL(A)=0.73MPa			
												8.65-8.80m: JT x2, 45°, PR, CN, SM									
												9.00m: JT, 45°, PR, SN Fe, RF									
												9.50-9.65m: JT, 85°, UN, SN Fe, RF					PLT	PL(A)=0.73MPa			
												9.65-9.72m: FG, SN Fe									
												9.72m: JT, 30°, UN, SN Fe, RF									

NOTES: [®]Soil origin is "probable" unless otherwise stated.

NOTES: (m) Soil origin is "probable" unless otherwise stated

PLANT: Explorer
METHOD: AD/T to 2.5m, WB to 3.0m, NMLC to 15.50m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 2.5m, then HQ to 3m

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 99.2 AHD
COORDINATE: E:311811.4, N:6265671.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH203
PROJECT No: 233937.00
DATE: 14/07/25
SHEET: 3 of 3

GROUNDWATER		CONDITIONS ENCOUNTERED														SAMPLE			TESTING								
		DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (WET WEIGHT) SOIL MOISTURE	GRAPHIC	WEATH.					DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE			
RL (m)	RS	XW				HW	DW	WW	SW	FR															VL	L	M
	89	10.00	SILTSTONE: grey and dark grey; <1% fine grained sandstone laminations, Ashfield Shale.		FR	10.00																					
						10.70																					
	88	11				10.80																					
	87	12				11.80																					
	86	13																									
	85	14																									
	84	15																									
	83	16	Borehole discontinued at 15.50m depth. Target depth reached.																								
	82	17																									
	81	18																									
	80	19																									

NOTES: ®Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 2.5m, WB to 3.0m, NMLC to 15.50m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 2.5m, then HQ to 3m

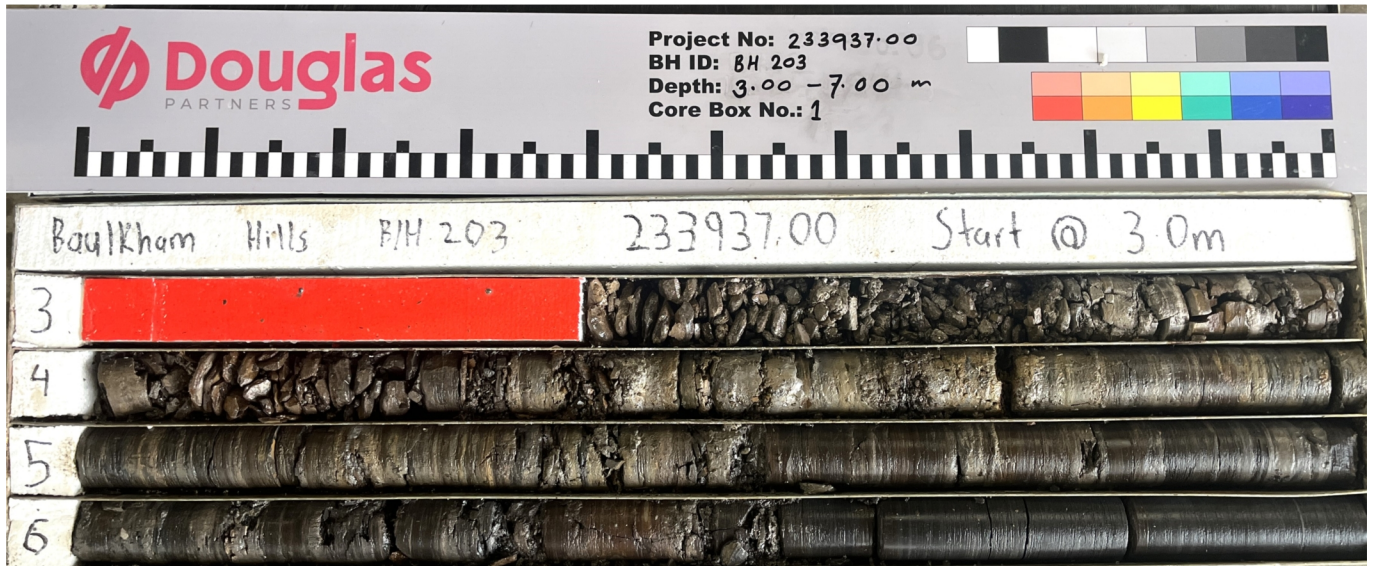
Refer to explanatory notes for symbol and abbreviation definitions

CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 99.2 AHD
COORDINATE: E:311811.4, N:6265671.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH203
PROJECT No: 233937.00
DATE: 14/07/25
SHEET: 1 of 2



3.00-7.00 m depth



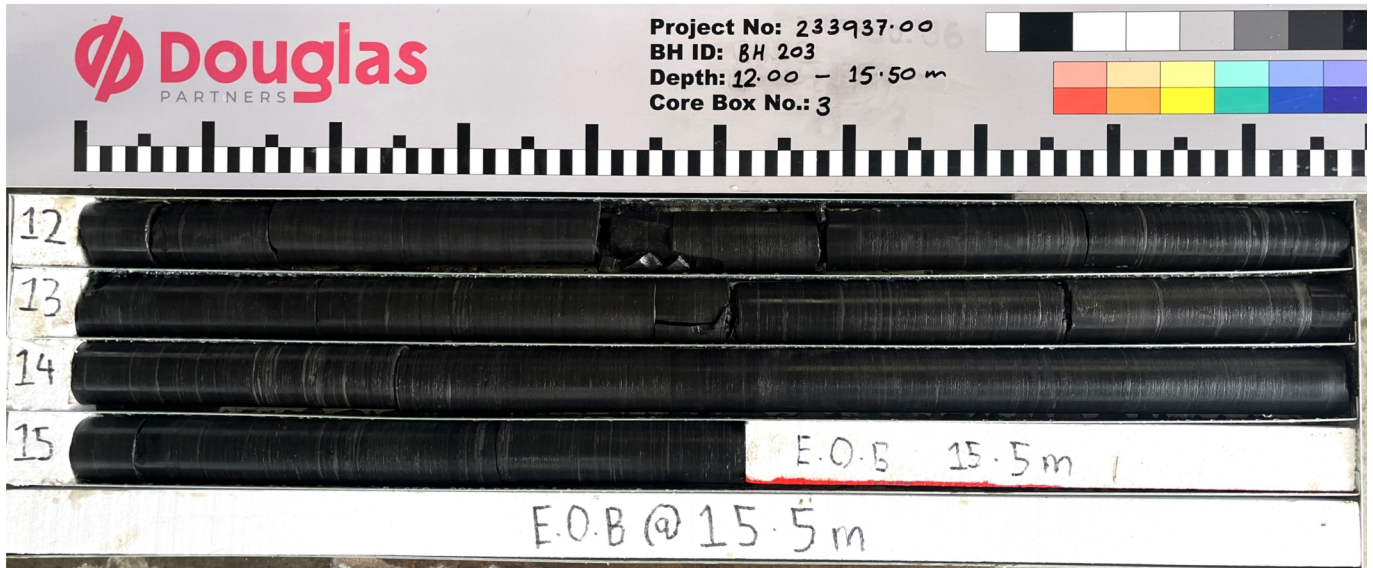
7.00-12.00 m depth

CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 99.2 AHD
COORDINATE: E:311811.4, N:6265671.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH203
PROJECT No: 233937.00
DATE: 14/07/25
SHEET: 2 of 2



12.00-15.50 m depth

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 98.9 AHD
COORDINATE: E:311847.0, N:6265652.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH204
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 1 of 4

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS			
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(%)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
18/07/25 No free groundwater observed while augering	0.10	TOPSOIL / Silty CLAY trace rootlets: grey-brown; low plasticity.	TS	TOP	ND	w<PL		A		0.10		
	0.65	FILL / Silty CLAY trace gravel: dark grey-brown; low to medium plasticity; concrete gravel; trace organic debris.		FILL	(PC)	w=PL		A		0.40 0.50		
	1	CLAY (CH) trace gravel: pale grey and orange-brown; high plasticity; ironstone gravel.		RS	St			A		0.90 1.00	SPT	7,7,8 N=15
	2.00	CLAY (CI): grey-brown; medium plasticity.				w<PL		SPT		1.45		
	3.65		XWM	H				SPT		2.50 2.95	SPT	15,17,23 N=40
	4	Continued as rock log								4		
	5									5		
	6									6		
	7									7		
	8									8		
9									9			
90												
91												
92												
93												
94												
95												
96												
97												
98												
99												

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: ^(a)Soil origin is "probable" unless otherwise stated. ^(c)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Explorer
METHOD: AD/T to 2.5m, WB to 3.65m, NMLC to 20.45m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 3.65m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 98.9 AHD
COORDINATE: E:311847.0, N:6265652.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH204
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 2 of 4

GROUNDWATER	CONDITIONS ENCOUNTERED													SAMPLE			TESTING				
	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (kN/m ²) SOIL MOISTURE	GRAPHIC	FS XW HW MW SW FR	WEATH. DW SW FR	DEPTH (m)	STRENGTH VL L M H VH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
18/07/25 No free groundwater observed while augering	96	1															1				
	97	2															2				
	96	3															3				
	95	4	Continued from soil log SILTSTONE: pale grey-brown; 50% clay, fractured. Ashfield Shale.			XW to HW		3.65	VL	94	0		3.65-4.50m: FG, Clay, DS								
	4.50							4.55					4.55-4.70m: FG, Clay								
	94	5	SILTSTONE: grey-brown; with 5-10% sandstone laminations. Ashfield Shale.			HW			VL				5.15m: JT, 40°, PR, TI, RF				5				
	5.65							5.65		100	58		5.40-5.55m: FG								
	93	6	SILTSTONE: grey; with 5% sandstone laminations. Ashfield Shale.			SW							5.70m: JT, 30°, PR, Clay, SM				6	PLT	PL(A)=0.58MPa		
													6.45m: JT, 45-65°, ST, CN, SM, 2								
	92	7				FR		7.00					6.70-6.85m: JT, 90°, PR, CN, SM				7	PLT	PL(A)=0.56MPa		
						HW		7.40	VL				6.85m: JT, 45°, PR, CN, SM								
	91	8						7.50					7.15m: JT, 45°, PR, CN, SM								
										100	94		7.40m: JT, 25°, PR, Clay 30mm, SM, FG								
	90	9				FR							7.80m: JT, 30°, PR, CN, SM				8	PLT	PL(A)=0.53MPa		
													8.90m: JT, 45°, PR, SN Fe, SM				9	PLT	PL(A)=0.87MPa		
	90												9.35m: JT, 70°, PR, CN, SM								
	89												9.42m: JT, 65°, PR, CN, SM								
89												9.80-9.85m: , siderite bands									
89						FR		9.78	H	99	97							PLT	PL(A)=2.2MPa		
NOTES: ¹ Soil origin is "probable" unless otherwise stated.																					

NOTES: (M) Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 2.5m, WB to 3.65m, NMLC to 20.45m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 3.65m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 98.9 AHD
COORDINATE: E:311847.0, N:6265652.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH204
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 3 of 4

CONDITIONS ENCOUNTERED										SAMPLE			TESTING								
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)	SOIL MOISTURE	GRAPHIC	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
		10.00	[CONT] SILTSTONE: grey, with 5% sandstone laminations. Ashfield Shale.					10.00													
	88	11								99	97		10.25m: , 30°, TI, micro fault				11	PLT	PL(A)=0.52MPa		
	87	12															12	PLT	PL(A)=0.76MPa		
	86	13											12.85m: B, 0°, Clay				13	PLT	PL(A)=0.82MPa		
		13.20	SILTSTONE: dark grey; with 10-20% pale grey fine grained sandstone laminations. Ashfield Shale.										13.20m: JT, 20°, PR, Clay, SM								
	85	14											13.60m: JT, 45°, PR, Clay, SM				14	PLT	PL(A)=1.2MPa		
	84	15					FR			100	100						15	PLT	PL(A)=0.80MPa		
	83	16															16	PLT	PL(A)=1.6MPa		
	82	17															17	PLT	PL(A)=2.1MPa		
	81	18								100	100						18	PLT	PL(A)=3.1MPa		
	80	19															19	PLT	PL(A)=2.3MPa		
	79									100	100							PLT	PL(A)=2.0MPa		

NOTES: ①Soil origin is "probable" unless otherwise stated.

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 2.5m, WB to 3.65m, NMLC to 20.45m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 3.65m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 98.9 AHD
COORDINATE: E:311847.0, N:6265652.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH204
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 4 of 4

CONDITIONS ENCOUNTERED														SAMPLE			TESTING					
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)		GRAPHIC	WEATH.		DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
				RS	DW		RS	DW														
			[CONT] SILTSTONE: dark grey; with 10-20% pale grey fine grained sandstone laminations. Ashfield Shale.			XXXXXX	FR			H	100	100							PLT	PL(A)=2.7MPa		
		78	Borehole discontinued at 20.45m depth. Target depth reached.																			
		21																				
		77																				
		22																				
		76																				
		23																				
		75																				
		24																				
		74																				
		25																				
		73																				
		26																				
		72																				
		27																				
		71																				
		28																				
		70																				
		29																				
		69																				
NOTES: #Soil origin is "probable" unless otherwise stated.																						

PLANT: Explorer
METHOD: AD/T to 2.5m, WB to 3.65m, NMLC to 20.45m
REMARKS: Grass cover at surface

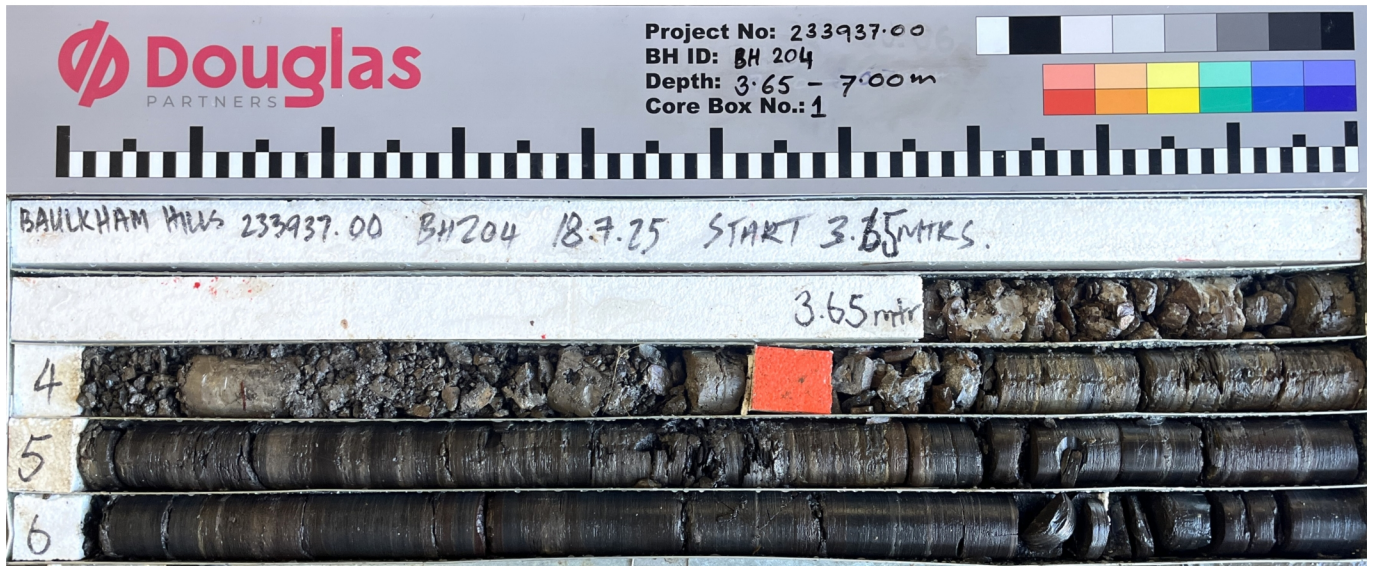
OPERATOR: Ground Test (S. Salib)
LOGGED: S. Islam
CASING: HW to 3.65m

CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 98.9 AHD
COORDINATE: E:311847.0, N:6265652.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH204
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 1 of 2



3.65-7.00 m depth



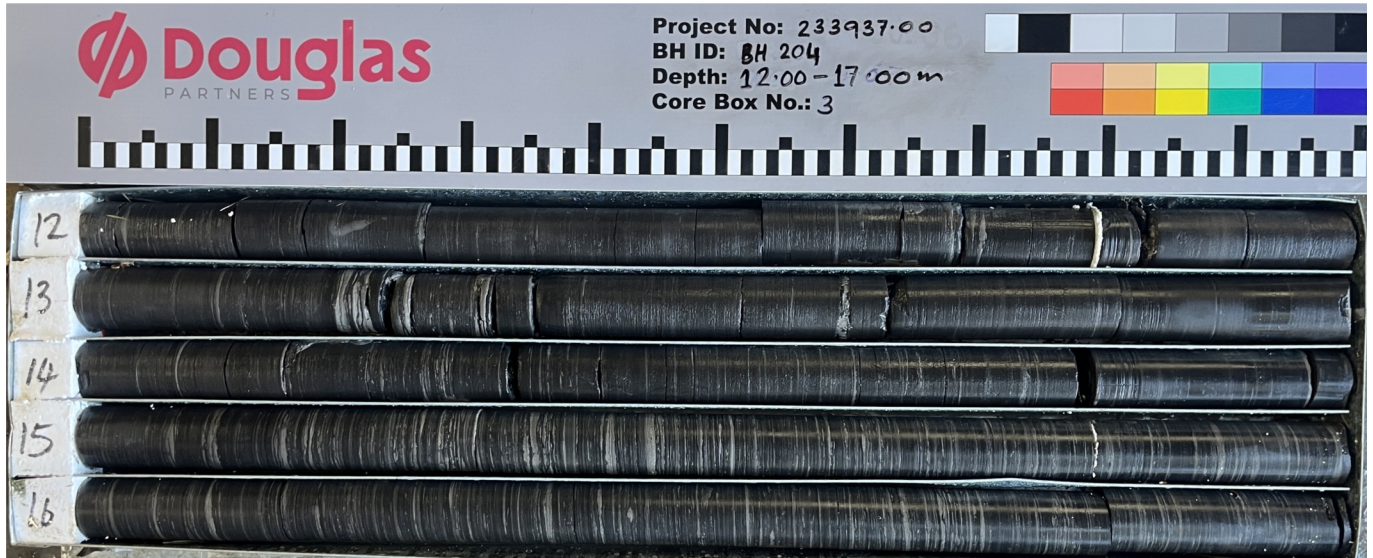
7.00-12.00 m depth

CORE PHOTO LOG

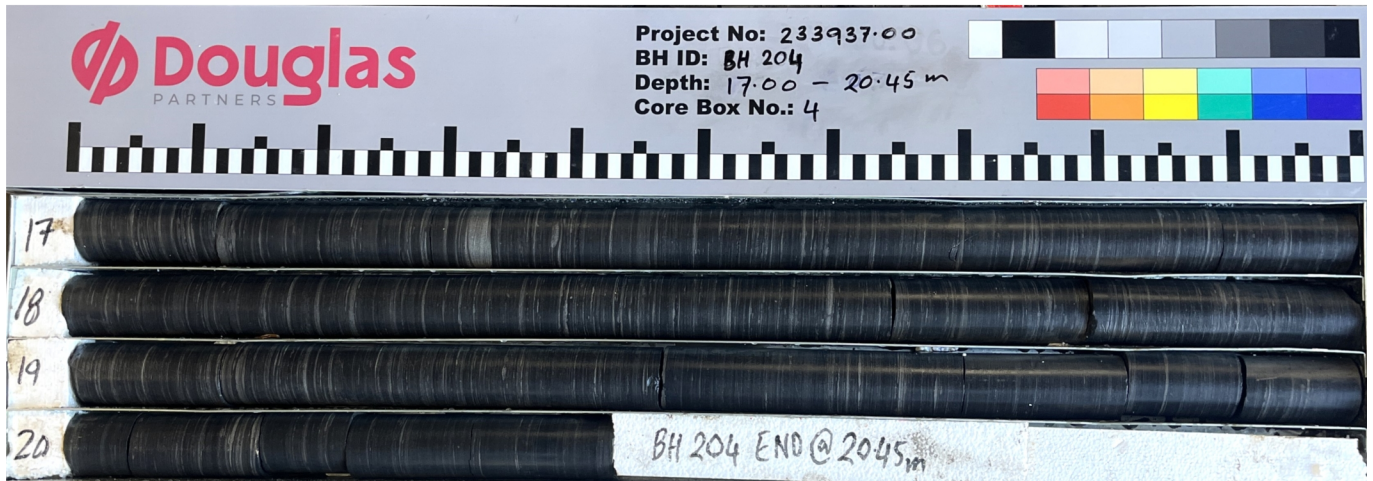
CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 98.9 AHD
COORDINATE: E:311847.0, N:6265652.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH204
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 2 of 2



12.00-17.00 m depth



17.00-20.45 m depth

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.0 AHD
COORDINATE: E:311887.1, N:6265641.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH205
PROJECT No: 233937.00
DATE: 16/07/25
SHEET: 1 of 4

GROUNDWATER	CONDITIONS ENCOUNTERED						SAMPLE				TESTING AND REMARKS					
	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(%)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
16/07/25 No Free Groundwater Observed While Augering		0.20	TOPSOIL / Silty CLAY trace grass roots: grey-brown; low plasticity.		TOP	ND	M			A		0.10				
			CLAY (CI-CH): brown; medium to high plasticity.		RS	(St)	w=PL			A		0.40 0.50				
	99	0.75	SILTSTONE: pale grey; trace ironstone band, inferred very low strength, Ashfield Shale.							A		0.90 1.00				
	1					NA	NA	SPT		1.15	SPT	25/150				
	98	2.00	Continued as rock log									2				
	97	3										3				
	96	4										4				
95	5										5					
94	6										6					
93	7										7					
92	8										8					
91	9										9					
NOTES: ^(*) Soil origin is "probable" unless otherwise stated. ^(c) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.																

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 20.20m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 1m



BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.0 AHD
COORDINATE: E:311887.1, N:6265641.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH205
PROJECT No: 233937.00
DATE: 16/07/25
SHEET: 2 of 4

[illegible]

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 20.20m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.0 AHD
COORDINATE: E:311887.1, N:6265641.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH205
PROJECT No: 233937.00
DATE: 16/07/25
SHEET: 3 of 4

CONDITIONS ENCOUNTERED										SAMPLE				TESTING						
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)	GRAPHIC	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
	RL (m)																			
	89	[CONT] SILTSTONE: grey and grey-brown; Ashfield Shale.			FR	10.00	M										PLT	PL(A)=3.3MPa		
	11				FR	10.20	M										PLT	PL(A)=0.61MPa		
	88				FR	10.55	M										PLT	PL(A)=0.51MPa		
	12				FR	10.80	M										PLT	PL(A)=0.44MPa		
	87				FR	12.50	M										PLT	PL(A)=0.42MPa		
	13				FR	12.60	M										PLT	PL(A)=0.39MPa		
	86				FR	13.30	M										PLT	PL(A)=1.3MPa		
	14				FR	13.40	M										PLT	PL(A)=2.3MPa		
	85				FR	13.95	M										PLT	PL(A)=1.9MPa		
	15				FR	14.60-14.75m	M										PLT	PL(A)=2.6MPa		
	15.40	SILTSTONE: dark grey; 5-15% pale grey fine grained sandstone laminations. Ashfield Shale.			FR	15.45	M										PLT	PL(A)=2.1MPa		
	84				FR															
	16				FR															
	83				FR															
	17				FR															
	82				FR															
	18				FR															
	81				FR															
	19				FR															

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 20.20m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.0 AHD
COORDINATE: E:311887.1, N:6265641.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH205
PROJECT No: 233937.00
DATE: 16/07/25
SHEET: 4 of 4

CONDITIONS ENCOUNTERED															SAMPLE			TESTING					
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)		GRAPHIC	WEATH.			DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
				SOIL STRENGTH	SOIL MOISTURE		RS	LXW	FR														
			[CONT] SILTSTONE: dark grey; 5-15% pale grey fine grained sandstone laminations. Ashfield Shale.			XXXXXXXXXX	FR				100	100							PLT	PL(A)=1.6MPa	Gravel		
	79	21	Borehole discontinued at 20.20m depth. Target depth reached.																				
	78	22																					
	77	23																					
	76	24																					
	75	25																					
	74	26																					
	73	27																					
	72	28																					
	71	29																					
	70	30																					

NOTES: ⑥Soil origin is "probable" unless otherwise stated.

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 20.20m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 1m



CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.0 AHD
COORDINATE: E:311887.1, N:6265641.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH205
PROJECT No: 233937.00
DATE: 16/07/25
SHEET: 1 of 2



2.00-6.00 m depth



6.00-11.00 m depth

CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.0 AHD
COORDINATE: E:311887.1, N:6265641.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH205
PROJECT No: 233937.00
DATE: 16/07/25
SHEET: 2 of 2



11.00-16.00 m depth



16.00-20.20 m depth

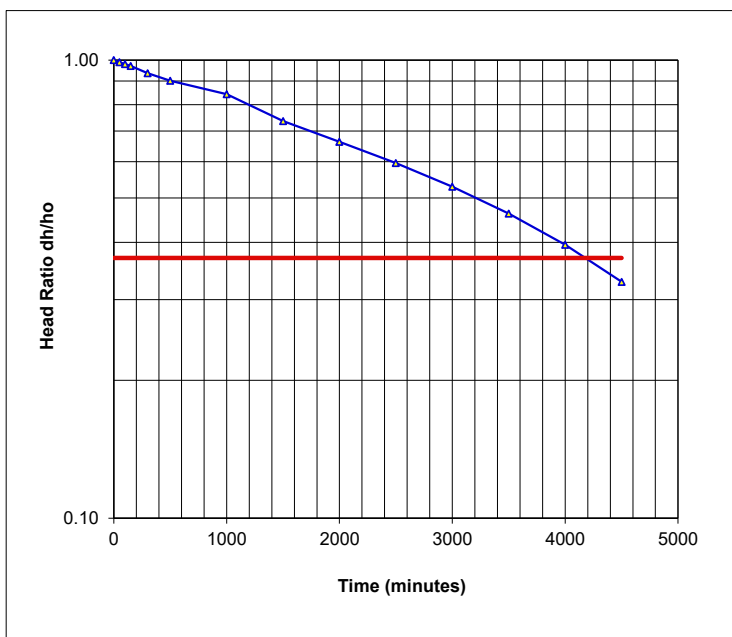
Permeability Testing - Rising or Falling Head Test Report

Client:	GreenSquareDC Pty Ltd	Project No:	233937.00
Project:	Green Square DC SYDGPU1	Test date:	28.07.2025
Location:	3 Brookhollow Avenue, Baulkham Hills, NSW	Tested by:	LDS

Test Location	Test No.	BH205	
Description:	Easting:	311887.1	m
Material type:	Northing	6265641.0	m
	Surface Level:	100	m AHD

Details of Well Installation					
Effective diameter (2re)	96	mm	Depth to water before test	11.55	m
borehole diameter (2R)	96	mm	Depth to water at start of test	19.01	m
Effective Length of well screen (Le)	8.65	m	Depth to top of gravel pack	16.30	m
			Depth of base of PVC standpipe	20.20	m

Test Results

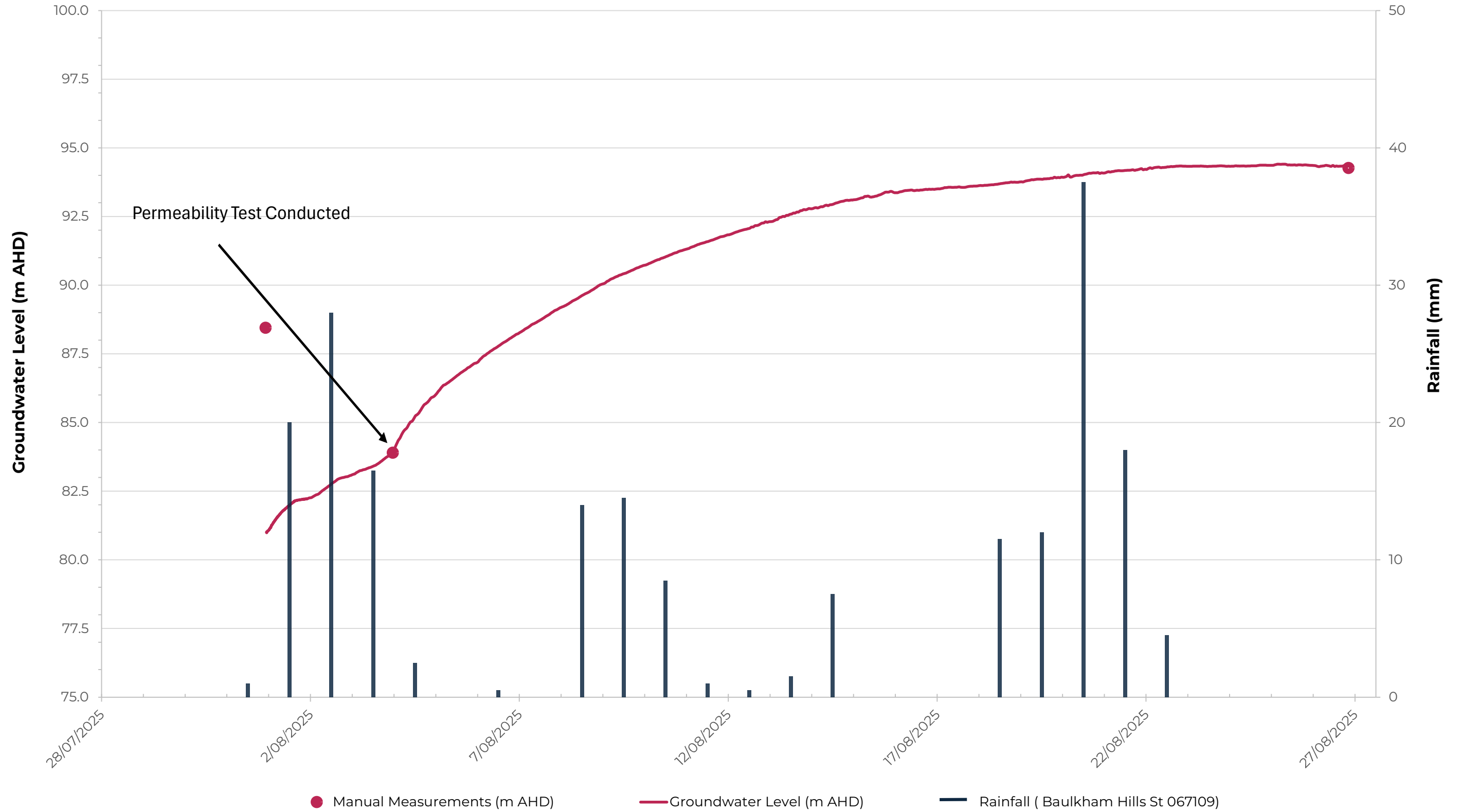
[illegible]

To = 4187 mins
251220 secs

Theory:	Falling Head Permeability calculated using equation by Hvorslev	
	$k = [r^2 \ln(L_e/R)] / 2Le T_o$	where r = radius of casing
		R = radius of well screen
		Le = length of well screen
		To = time taken to rise or fall to 37% of initial change

Hydraulic Conductivity	k =	2.8E-09	m/sec
	=	0.00024	m/day

BH205



CLIENT: GreenSquareDC Pty Ltd

OFFICE: Sydney

SURFACE LEVEL: 100.0 m AHD

DRAWN BY: L. Sigdel

DATE: 29 August 2025

Groundwater Monitoring 01/08/2025 to 27/08/25

Green Square DC SYDGPU1

3 Brookhollow Avenue, Baulkham Hills, NSW 2153

PROJECT NO: 233937.00

FIGURE NO: 1 of 1

REVISION: Rev1

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 89.2 AHD
COORDINATE: E:311759.4, N:6265628.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH206
PROJECT No: 233937.00
DATE: 07/07/25 - 08/07/25
SHEET: 1 of 3

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS			
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
07/07/25 No Free Groundwater Observed Whilst Augering	0.03	ASPHALTIC CONCRETE.		FILL	ND	w=PL		X2	A	0.10	SPT	7,13,20 N=33
		FILL / CLAY with gravel: grey to brown; medium plasticity; medium to coarse, igneous and siltstone gravel.							A	0.20		
									A	0.50		
									A	0.60		
									A	0.90		
									A	1.00		
									SPT	1.45		
	0.90	CLAY (CI-CH) with gravel: brown; medium to high plasticity; fine, siltstone gravel.	RS	H	w<PL							
	1.00	CLAY (CI-CH) with gravel: dark brown to orange; medium to high plasticity; fine, siltstone gravel.	XWM									
	2.00	Continued as rock log										

NOTES: ^(a)Soil origin is "probable" unless otherwise stated. ^(c)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 15.25m
REMARKS:

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges
CASING: HWT to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 89.2 AHD
COORDINATE: E:311759.4, N:6265628.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH206
PROJECT No: 233937.00
DATE: 07/07/25 - 08/07/25
SHEET: 2 of 3

CONDITIONS ENCOUNTERED															SAMPLE			TESTING						
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered) SOIL MOISTURE		GRAPHIC	WEATH. [DW] [SW] [FR]			DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
07/07/25 No Free Groundwater Observed Whilst Augering	89																							
		1																						
		2	Continued from soil log																					
		2.20	SILTSTONE: dark grey. Ashfield Shale.							2.20	SEAM				SEAM	2.20-2.30m: EW, Clay								
										2.30														
										2.40					SEAM	2.40-2.86m: IS x6, 0-20°, UN, SN Fe, SM, TI				PLT	PL(A)=0.02MPa			
										2.86														
										3.00														
										3.30														
										3.45														
			SILTSTONE: dark grey. Ashfield Shale.																					
					</																			

NOTES: *Soil origin is "probable" unless otherwise stated.

PLANT: Explorer **OPERATOR:** Ground Test (S. Salib) **LOGGED:** C. Lambert-Bridges
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 15.25m **CASING:** HWT to 1m
REMARKS:



Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 89.2 AHD
COORDINATE: E:311759.4, N:6265628.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH206
PROJECT No: 233937.00
DATE: 07/07/25 - 08/07/25
SHEET: 3 of 3

CONDITIONS ENCOUNTERED														SAMPLE				TESTING			
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)	SOIL MOISTURE	GRAPHIC	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
	79		[CONT] SILTSTONE: dark grey; with 10-20% pale grey fine grained sandstone. Ashfield Shale.							100	100										
	11.00		SILTSTONE: dark grey; with <5% pale grey fine grained sandstone. Ashfield Shale.										10.90m: B, PR, VNR Clay, SM				11	PLT	PL(A)=2.2MPa		
	12												11.82m: B, PR, VNR Clay, SM				12	PLT	PL(A)=1.9MPa		
	13									100	100						13	PLT	PL(A)=1.2MPa		
	14												13.90m: B, PR, VNR Clay, SM				14	PLT	PL(A)=1.5MPa		
	15							14.80		100	100		14.86m: JT, 45°, PR, VNR Clay, SM 15.00m: JT, 45°, PR, CN, SM 15.20m: B, PR, VNR Clay, SM				15	PLT	PL(A)=0.75MPa		
			Borehole discontinued at 15.25m depth. Target depth reached.																		
	16																				
	17																				
	18																				
	19																				

NOTES: *Soil origin is "probable" unless otherwise stated.

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 15.25m
REMARKS:

OPERATOR: Ground Test (S. Salib)

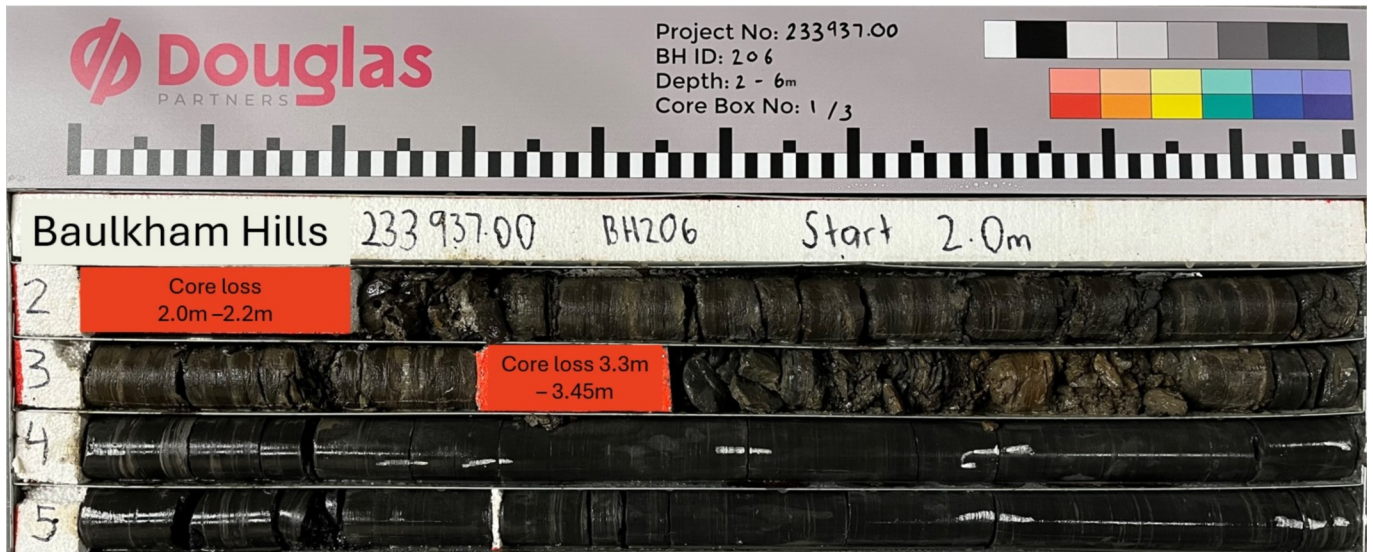
LOGGED: C. Lambert-Bridges
CASING: HWT to 1m

CORE PHOTO LOG

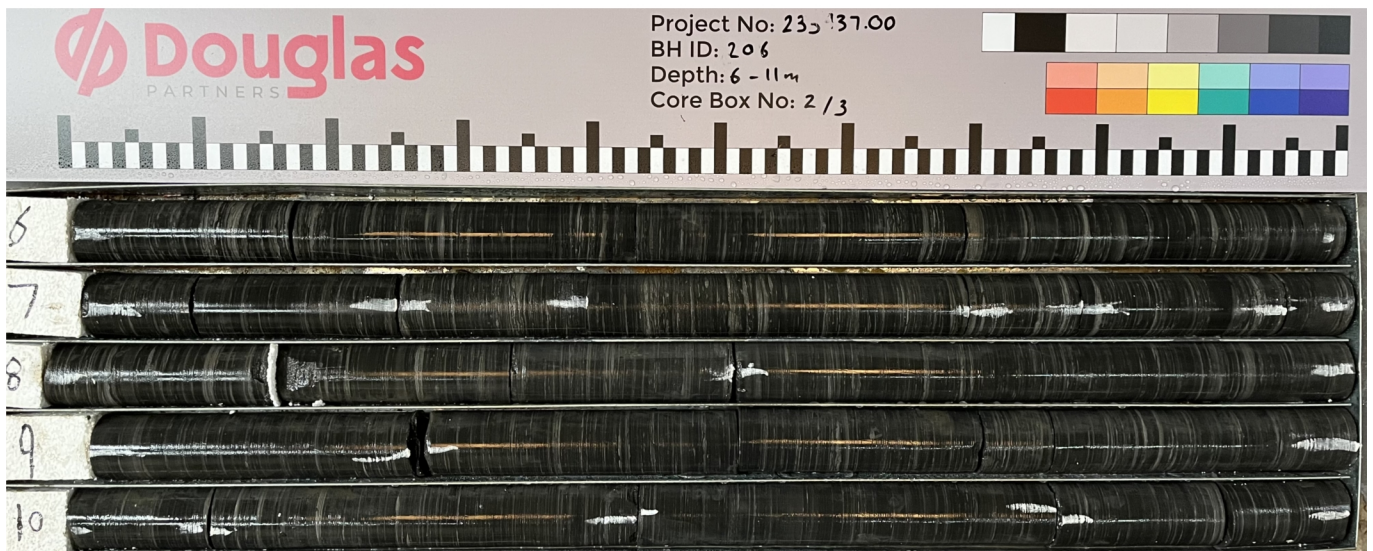
CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 89.2 AHD
COORDINATE: E:311759.4, N:6265628.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH206
PROJECT No: 233937.00
DATE: 07/07/25 - 08/07/25
SHEET: 1 of 2



2.00-6.00 m depth



6.00-11.00 m depth

CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 89.2 AHD
COORDINATE: E:311759.4, N:6265628.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH206
PROJECT No: 233937.00
DATE: 07/07/25 - 08/07/25
SHEET: 2 of 2



11.00-15.25 m depth

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 90.6 AHD
COORDINATE: E:311795.2, N:6265613.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH207
PROJECT No: 233937.00
DATE: 08/07/25
SHEET: 1 of 3

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS			
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(%)	CONSIS. (°) DENSITY, (°)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
08/07/25 No Free Groundwater Observed Whilst Augering	0.30	TOPSOIL / Sandy CLAY trace gravel: dark brown; fine, igneous and siltstone gravel; with roots.		TOP / TOP	NA	w=PL		A		0.10	SPT	20,25/100 refusal
	0.70	CLAY (CI-CH) with gravel: brown; medium to high plasticity; weathered siltstone gravel.		RS	(St) to (VSt)			A		0.50		
	1.00	CLAY (CI) with gravel: pale brown; medium plasticity.						A		1.00		
	1.25			XWM	H	w<PL		SPT		1.25		
	2.00	Continued as rock log								2		
	3									3		
	4									4		
	5									5		
	6									6		
	7									7		
	8									8		
	9									9		

NOTES: (°)Soil origin is "probable" unless otherwise stated. (°)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: ^(a)Soil origin is "probable" unless otherwise stated. ^(b)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 15.38m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges
CASING: HW to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 90.6 AHD
COORDINATE: E:311795.2, N:6265613.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH207
PROJECT No: 233937.00
DATE: 08/07/25
SHEET: 2 of 3

GROUNDWATER	CONDITIONS ENCOUNTERED														SAMPLE			TESTING				
	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered) SOIL MOISTURE	GRAPHIC	FS XW HW MW SW FR	WEATH. DW	DEPTH (m)	STRENGTH VL L M H VH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
08/07/25 No Free Groundwater Observed Whilst Augering	90	1																1				
	89																					
		2	Continued from soil log															2				
	2.33		SILTSTONE: dark grey; with clay bands; iron stained. Ashfield Shale.																			
	88					XW HW		2.33	SEAM	57	0	SEAM	2.33-2.56m: EW, Clay									
								2.56	VL													
								2.71	SEAM			SEAM	2.71-3.00m: EW, Clay									
	3.00																					
	3.17							3.17	SEAM			SEAM	3.17-3.54m: EW, Clay									
	87							3.54	VL			SEAM	3.66-3.75m: EW, Clay					PLT	PL(A)=0.02MPa			
								3.66	SEAM				3.55-3.95m: IS x7, UN, SN Fe, TI									
								3.75	L	100	0		4.00-4.18m: EW, Clay									
	4							4.00	VL				4.18-4.40m: JT, 60°, PR, SN Fe, SM									
								4.18	L				4.40-4.70m: EW, Clay									
	86					XW HW		4.40	SEAM			SEAM	4.85m: B, PR, VNR Clay, SM									
								4.60					5.00-5.60m: JT x3, 60°, PR, SN Fe, SM									
	5							5.40	SEAM			SEAM	5.40-5.50m: EW, Clay 10mm									
	85							5.90		85	39		5.90-5.91m: EW, Clay 10mm					PLT	PL(A)=0.58MPa			
	5.90		SILTSTONE: dark grey.										6.22m: B, PR, VNR Clay, SM					PLT	PL(A)=0.57MPa			
	84												6.66m: JT, 60°, IR, SN Fe, SM, 6.62-6.71m									
6.85		SILTSTONE: dark grey; with 10-20% pale grey fine to medium grained sandstone laminations. Ashfield Shale.						7.00				6.88-6.94m: B x2, 0°, PR, SN Fe, SM					PLT	PL(A)=1.0MPa				
7						SW						7.00-7.32m: JT x4, 40°, IR, SN Fe, SM										
83												7.37m: JT, 80°, IR, CN, RF										
8								8.00				7.96m: JT, 30°, PR, CN, SM					PLT	PL(A)=1.8MPa				
82								8.30		100	82	8.20m: JT, 40°, IR, VNR Py, RF, 8.17-8.24m										
9												8.35m: JT, 40°, IR, VNR Clay, SM, 8.33-8.37m										
												8.42m: JT, IR, CN, RF										
												8.54m: JT, 80°, IR, CN, RF, 8.49-8.6m										
												8.90m: JT, 80°, IR, CN, RF, 8.85-8.95m					PLT	PL(A)=1.3MPa				
						FR						9.15m: JT, 80°, IR, CN, RF, 9.1-9.2m										
									100	100							PLT	PL(A)=1.4MPa				

NOTES: *Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 15.38m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges
CASING: HW to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 90.6 AHD
COORDINATE: E:311795.2, N:6265613.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH207
PROJECT No: 233937.00
DATE: 08/07/25
SHEET: 3 of 3

CONDITIONS ENCOUNTERED																			SAMPLE			TESTING			
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)	SOIL MOISTURE	GRAPHIC	WEATH.			DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE		
			[CONT] SILTSTONE: dark grey; with 10-20% pale grey fine to medium grained sandstone laminations. Ashfield Shale.				RS	VS	MS	DW	MM	SW	FR												
	80														10.10m: JT, 30°, IR, CN, RF										
	11														11.12m: JT, 50°, IR, CN, RF				11	PLT	PL(A)=2.7MPa				
	11.20		SILTSTONE: dark grey; <5% pale grey fine to medium grained sandstone laminations. Ashfield Shale.										100	100	11.53m: JT, 50°, IR, CN, RF										
	79																								
	12														12.06m: JT, 20°, IR, CN, RF				12	PLT	PL(A)=2.5MPa				
	78																								
	13																								
	77																								
	14																								
	76																								
	15																								
	75		Borehole discontinued at 15.38m depth. Target depth reached.																						
	16																								
	74																								
	17																								
	73																								
	18																								
	72																								
	19																								
	71																								

NOTES: ®Soil origin is "probable" unless otherwise stated.

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.0m, NMLC to 15.38m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges
CASING: HW to 1m

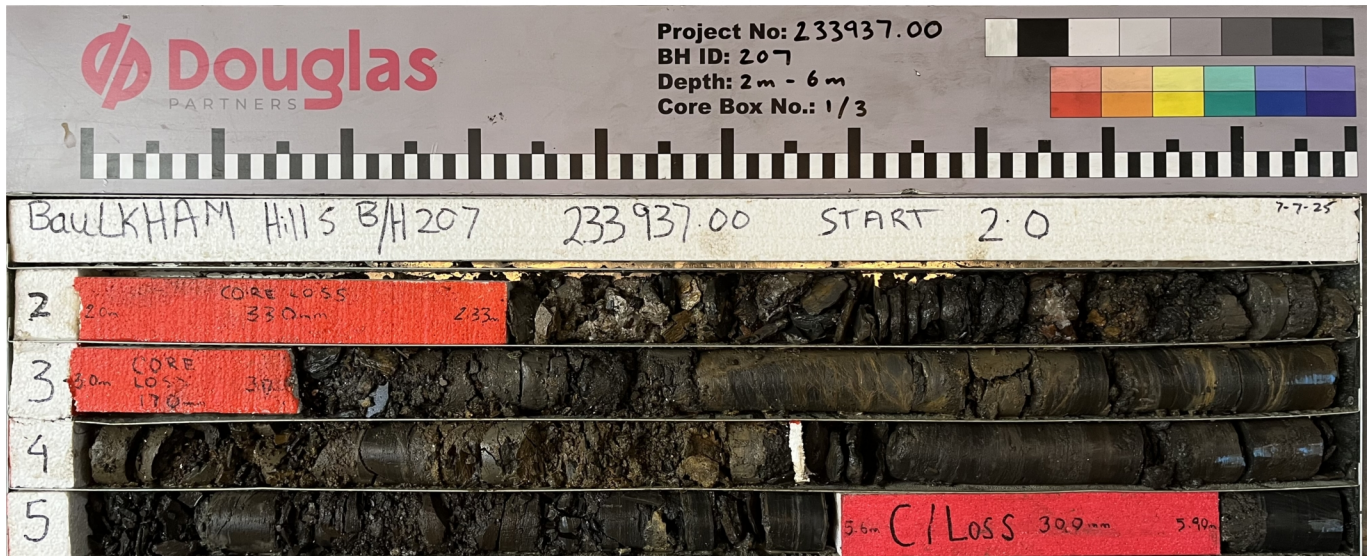


CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 90.6 AHD
COORDINATE: E:311795.2, N:6265613.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH207
PROJECT No: 233937.00
DATE: 08/07/25
SHEET: 1 of 2



2.00-6.00 m depth



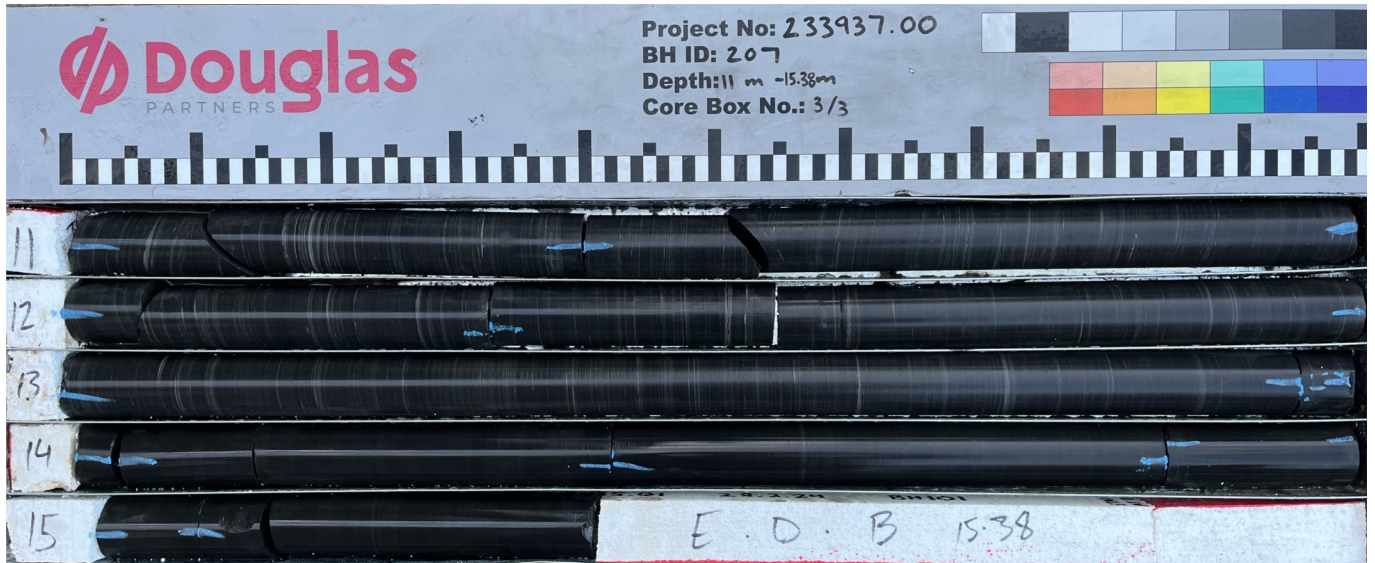
6.00-11.00 m depth

CORE PHOTO LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 90.6 AHD
COORDINATE: E:311795.2, N:6265613.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH207
PROJECT No: 233937.00
DATE: 08/07/25
SHEET: 2 of 2



11.00-15.38 m depth

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.5 AHD
COORDINATE: E:311839.2, N:6265615.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH208
PROJECT No: 233937.00
DATE: 09/07/25
SHEET: 1 of 4

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
09/07/25 No Free Groundwater Observed Whilst Augering	0.02		ASPHALTIC CONCRETE.		FILL	ND	D		A		0.10	SPT	9,15,25/100
	0.35		FILL / Sandy GRAVEL: pale brown; igneous and siltstone gravel.		FILL								
	0.55		FILL / Sandy CLAY trace gravel: dark brown; medium plasticity; coarse, siltstone and sandstone gravel.		RS	VSt	M		A		0.50		
	1		CLAY (CH): orange brown; high plasticity.										
	1.30		CLAY (CH) with gravel: orange-brown; high plasticity.						SPT		1.40		
	2		Continued as rock log		XWM	H	w<PL				2		
	2.10												
	3												
	4												
	5												
6													
7													
8													
9													
86													

NOTES: ^(a)Soil origin is "probable" unless otherwise stated. ^(b)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.10m, NMLC to 20.35m
REMARKS:

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges
CASING: HWT to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.5 AHD
COORDINATE: E:311839.2, N:6265615.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH208
PROJECT No: 233937.00
DATE: 09/07/25
SHEET: 2 of 4

CONDITIONS ENCOUNTERED														SAMPLE			TESTING						
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)		GRAPHIC	WEATH.		DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
				RS	SW		HW	FW	SW	FR	VL	L	M	H	VH	EH							
09/07/25 No Free Groundwater Observed Whilst Augering	95	1																					
		2	Continued from soil log																				
			SILTSTONE: pale brown to pale grey; frequent clay seams; iron stained. Ashfield Shale.				HW				2.10		VL										
											2.30												
							XW						SEAM	90	0		SEAM	2.30-3.00m: EW, Clay					
		3.00																					
		3.17					HW				3.17		VL										
							FW				3.25												
							FW				3.37												
			SILTSTONE: pale brown and dark grey; frequent decomposed seams and clay seams; iron stained. Ashfield Shale.																				
							XW						SEAM				SEAM	3.25-3.31m: EW, Clay					
							XW						SEAM				SEAM	3.37-4.06m: EW, Clay					
		4									4.06		L	96	0								
							HW																
											4.56												
							XW						SEAM				SEAM	4.06-4.56m: IS x10, UN, SN Fe, TI					
		5																					
							XW						SEAM				SEAM	4.56-5.30m: EW, Clay					
		5.30									5.30												
			SILTSTONE: brown to black; crushed seams potentially from faulting; occasional iron staining. Ashfield Shale.																				
							HW						VL										
		6									6.10												

NOTES: *Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.10m, NMLC to 20.35m
REMARKS:

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges
CASING: HWT to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.5 AHD
COORDINATE: E:311839.2, N:6265615.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH208
PROJECT No: 233937.00
DATE: 09/07/25
SHEET: 3 of 4

CONDITIONS ENCOUNTERED										SAMPLE				TESTING					
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)	GRAPHIC	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
	85	[CONT] SILTSTONE: dark grey; <5% pale grey fine to medium grained sandstone laminations. Ashfield Shale.						100	91		SM, 1mm 8.57m: JT, 40°, IR, CN, RF 8.62m: JT, 40°, IR, CN 8.64-8.66m: JT, 50°, IR, CN, RF 9.32m: B, 0°, PR, CT Clay, SM, 1mm								
	11						M				11.10m: JT, 40°, PR, CN, SM				11	PLT	PL(A)=0.66MPa		
	11.65	SILTSTONE: dark grey; with 10-20% pale grey fine to medium grained sandstone laminations. Ashfield Shale.				11.50					11.39m: JT x2, 80°, PR, CN, RF, 11.29-11.5m				12	PLT	PL(A)=1.5MPa		
	12							100	100						13	PLT	PL(A)=1.3MPa		
	13										14.03m: JT, 40°, PR, CN, SM				14	PLT	PL(A)=1.8MPa		
	14										14.83m: JT, 20°, PR, CN, SM				15	PLT	PL(A)=2.9MPa		
	15				FR		H				15.45m: JT, 40°, PR, CN, RF				16	PLT	PL(A)=1.7MPa		
	16.00	SILTSTONE: dark grey; with <5% pale grey fine to medium grained sandstone laminations. Ashfield shale.						100	100						17	PLT	PL(A)=1.2MPa		
	17														18	PLT	PL(A)=2.1MPa		
	18					18.50					17.70m: JT, 50°, PR, CN, SM				19	PLT	PL(A)=0.95MPa		
	19						M									PLT	PL(A)=0.79MPa		

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.10m, NMLC to 20.35m
REMARKS:

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges
CASING: HWT to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.5 AHD
COORDINATE: E:311839.2, N:6265615.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH208
PROJECT No: 233937.00
DATE: 09/07/25
SHEET: 4 of 4

CONDITIONS ENCOUNTERED																	SAMPLE			TESTING				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)	SOIL MOISTURE	GRAPHIC	WEATH.				DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
							SS	SW	DW	FR														
	75		[CONT] SILTSTONE: dark grey; with <5% pale grey fine to medium grained sandstone laminations. Ashfield shale. Borehole discontinued at 20.35m depth. Target depth reached.				FR					M	100	100										
	21																							
	74																							
	22																							
	73																							
	23																							
	72																							
	24																							
	71																							
	25																							
	70																							
	26																							
	69																							
	27																							
	68																							
	28																							
	67																							
	29																							
	66																							

NOTES: *Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.10m, NMLC to 20.35m
REMARKS:

OPERATOR: Ground Test (S. Salib)

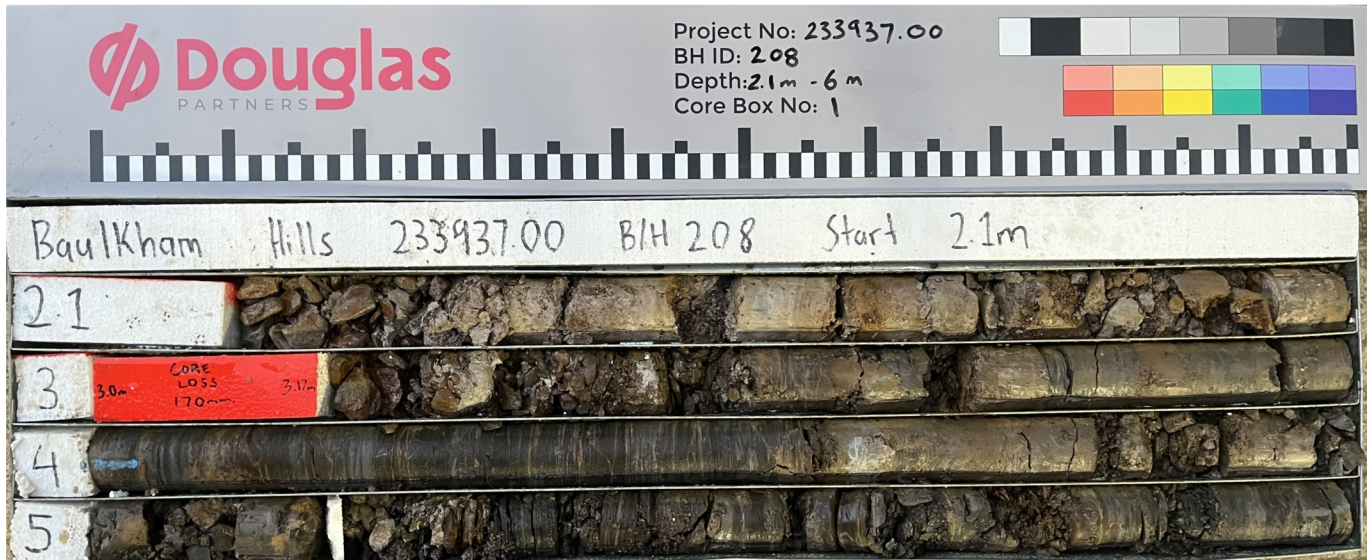
LOGGED: C. Lambert-Bridges
CASING: HWT to 1m

CORE PHOTO LOG

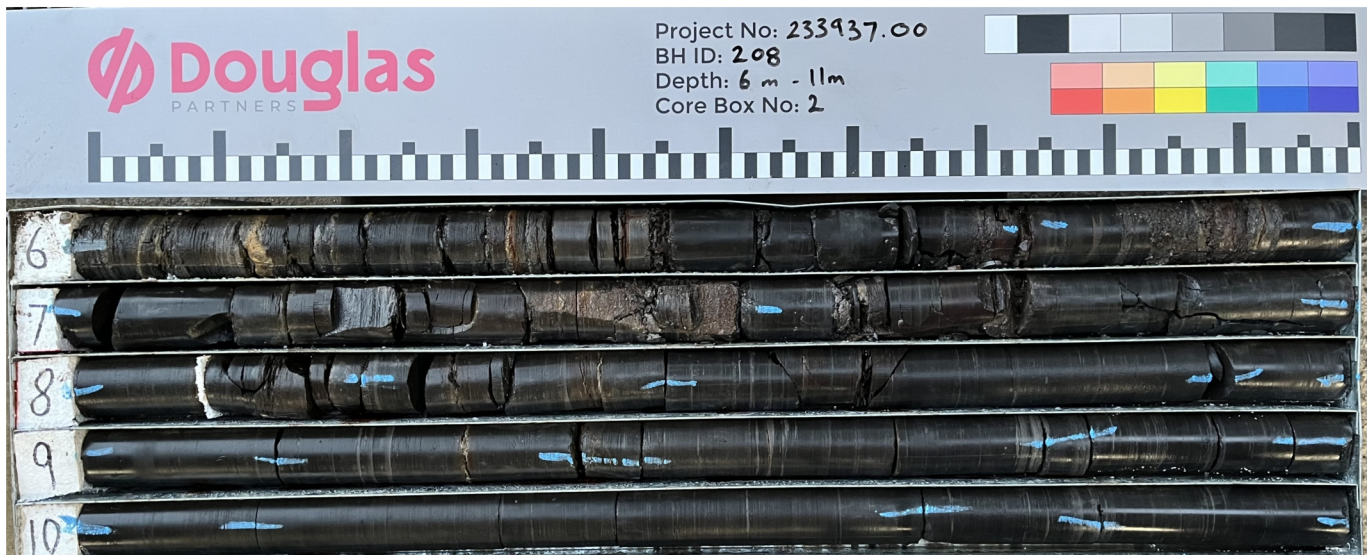
CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.5 AHD
COORDINATE: E:311839.2, N:6265615.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH208
PROJECT No: 233937.00
DATE: 09/07/25
SHEET: 1 of 2



2.10-6.00 m depth



6.00-11.00 m depth

CORE PHOTO LOG

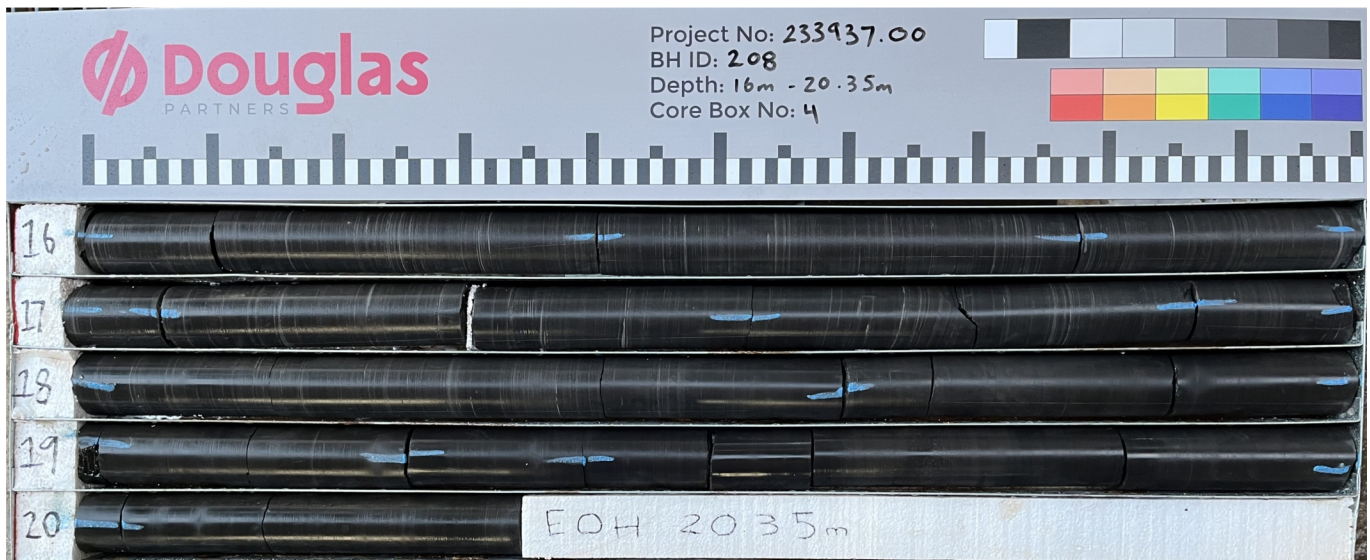
CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 95.5 AHD
COORDINATE: E:311839.2, N:6265615.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH208
PROJECT No: 233937.00
DATE: 09/07/25
SHEET: 2 of 2



11.00-16.00 m depth



16.00-20.35 m depth

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.7 AHD
COORDINATE: E:311876.1, N:6265601.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH209
PROJECT No: 233937.00
DATE: 10/07/25
SHEET: 1 of 4

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS				
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(%)	CONSIS. (%)	DENSITY, (g/cm³)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	
09/07/25 No Free Groundwater Observed Whilst Augering	0.25	TOPSOIL / CLAY: dark brown; medium plasticity; with rootlets.		TOP / TOP	ND		w=PL	X2	A		0.10	SPT	3,6,11 N=17	
		CLAY (CH): red-brown; high plasticity.												0.30
		0.65m-1.40m: Orange-brown		RS	St to VSt									0.50
														0.70
														1.00
	1.40	CLAY (CH): pale grey; high plasticity; with pockets of highly weathered very low strength siltstone.												
				XWM	(H)									
	2.20	Continued as rock log												

NOTES: ^(a)Soil origin is "probable" unless otherwise stated. ^(b)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.20m, NMLC to 20.25m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges /
CASING: HWT to 1m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.7 AHD
COORDINATE: E:311876.1, N:6265601.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH209
PROJECT No: 233937.00
DATE: 10/07/25
SHEET: 2 of 4

[illegible]

NOTES: ^(m)Soil origin is "probable" unless otherwise stated

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.20m, NMLC to 20.25m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges /
CASING: HWT to 1m

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.7 AHD
COORDINATE: E:311876.1, N:6265601.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH209
PROJECT No: 233937.00
DATE: 10/07/25
SHEET: 3 of 4

CONDITIONS ENCOUNTERED										SAMPLE			TESTING									
GROUNDWATER	FL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (kN/m ²) SOIL MOISTURE	GRAPHIC	FS XW LW HW MW SW FR	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
	86	11	[CONT] SILTSTONE: grey and dark grey; with 5% sandstone laminations, Ashfield Shale.					10.00	L M	100	100								PLT	PL(A)=0.42MPa		
	85								M				10.90m: B, 0°, PR, CN, SM					PLT	PL(A)=0.64MPa			
	12.00		INTERBEDDED SILTSTONE AND SANDSTONE: : 30-70%, pale grey, fine to medium grained sandstone interbedded and interlaminated with grey and dark grey siltstone. Ashfield Shale.					12.00											PLT	PL(A)=2.1MPa		
	84	13								100	100								PLT	PL(A)=2.1MPa		
	83												13.15m: JT, 45°, PR, CN, SM					PLT	PL(A)=2.1MPa			
	14								H										PLT	PL(A)=1.8MPa		
	82	15					FR												PLT	PL(A)=3.1MPa		
	81									100	100								PLT	PL(A)=2.1MPa		
	16.00		SILTSTONE: dark grey; with 5% sandstone laminations, Ashfield Shale.																PLT	PL(A)=1.3MPa		
	80	17											16.80-17.00m: JT, 85°, PR, CN, SM					PLT	PL(A)=1.5MPa			
	79	18							H				17.65m: JT, 45°, PR, CN, SM, TI					PLT	PL(A)=1.5MPa			
	78	19								100	100								PLT	PL(A)=1.5MPa		
	77							19.50	M H													

NOTES: 1)Soil origin is "probable" unless otherwise stated.

NOTES: *Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.20m, NMLC to 20.25m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges /
CASING: HWT to 1m



BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.7 AHD
COORDINATE: E:311876.1, N:6265601.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH209
PROJECT No: 233937.00
DATE: 10/07/25
SHEET: 4 of 4

CONDITIONS ENCOUNTERED										SAMPLE			TESTING									
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered) SOIL MOISTURE		GRAPHIC	WEATH.		DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
				RS DS AM MW SW FR	DW			VL L M H VH EH							0.001 0.005 0.01 0.05 0.1 0.5 1.00							
			[CONT] SILTSTONE: dark grey; with 5% sandstone laminations, Ashfield Shale.				FR		20.00		100	100							PLT	PL(A)=0.99MPa		
	76		Borehole discontinued at 20.25m depth.																			
		21	Target depth reached.																			
	75																					
		22																				
	74																					
		23																				
	73																					
		24																				
	72																					
		25																				
	71																					
		26																				
	70																					
		27																				
	69																					
		28																				
	68																					
		29																				
	67																					

NOTES: ®Soil origin is "probable" unless otherwise stated.

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 1.0m, WB to 2.20m, NMLC to 20.25m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: C. Lambert-Bridges /
CASING: HWT to 1m

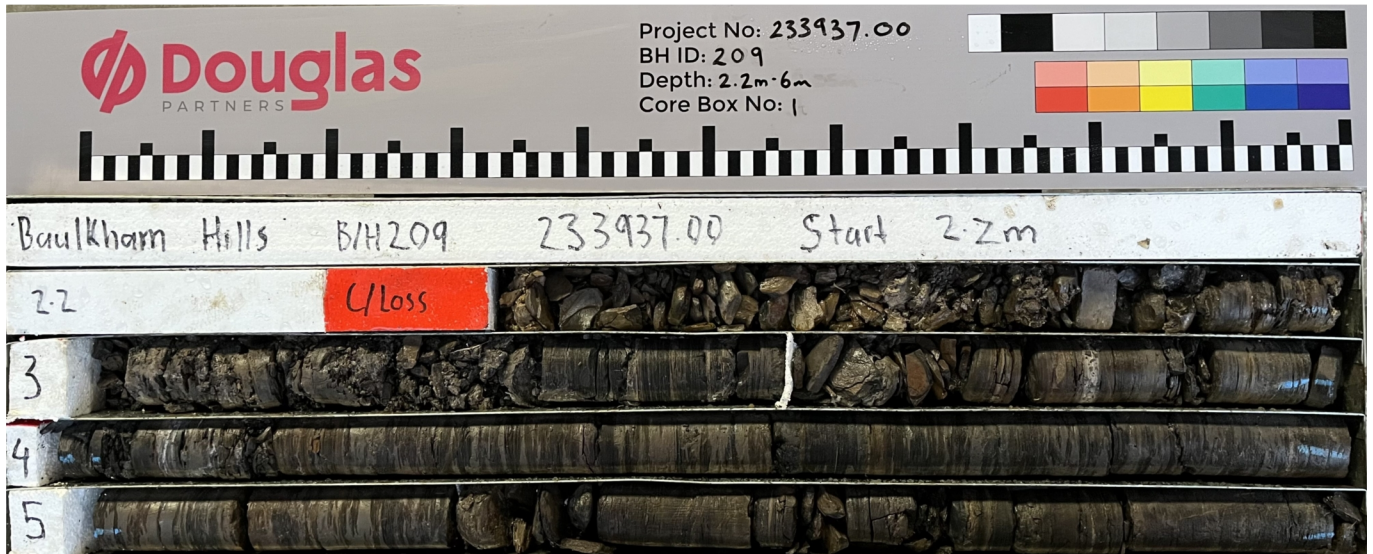


CORE PHOTO LOG

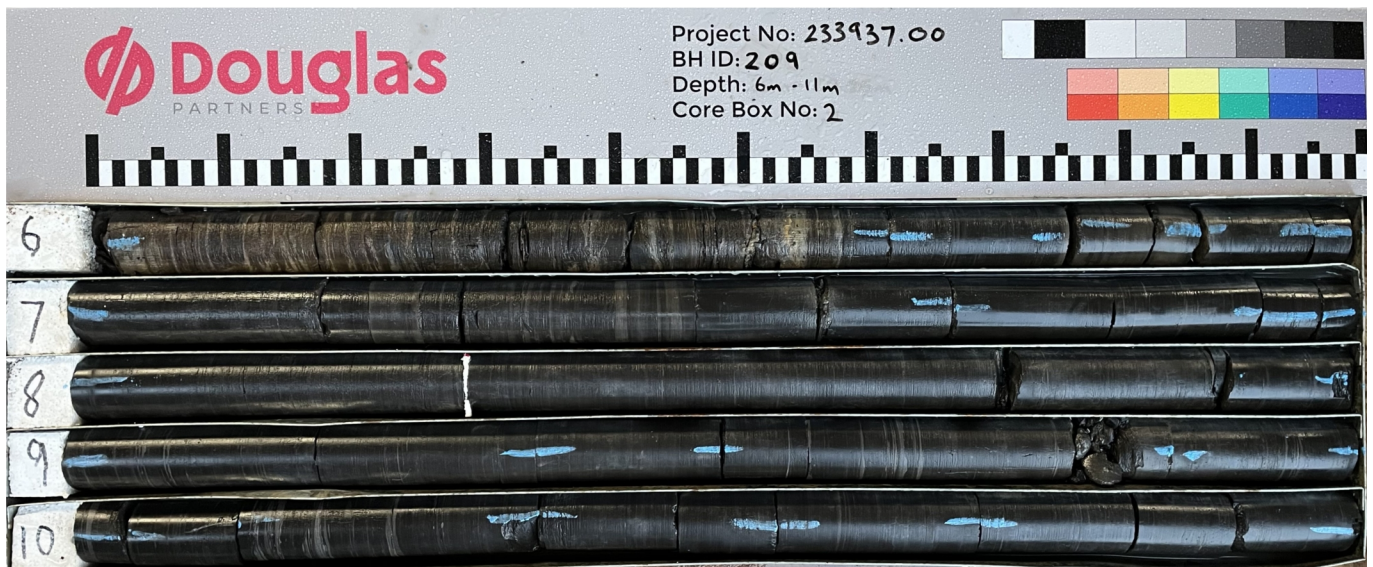
CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.7 AHD
COORDINATE: E:311876.1, N:6265601.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH209
PROJECT No: 233937.00
DATE: 10/07/25
SHEET: 1 of 2



2.20-6.00 m depth



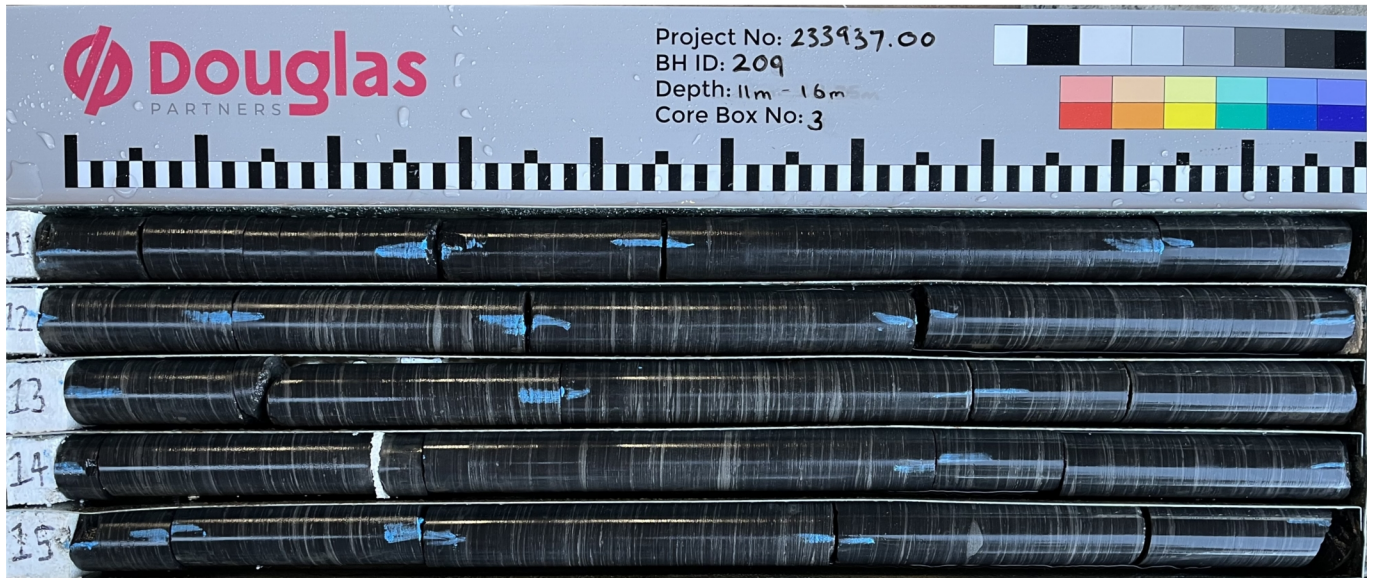
6.00-11.00 m depth

CORE PHOTO LOG

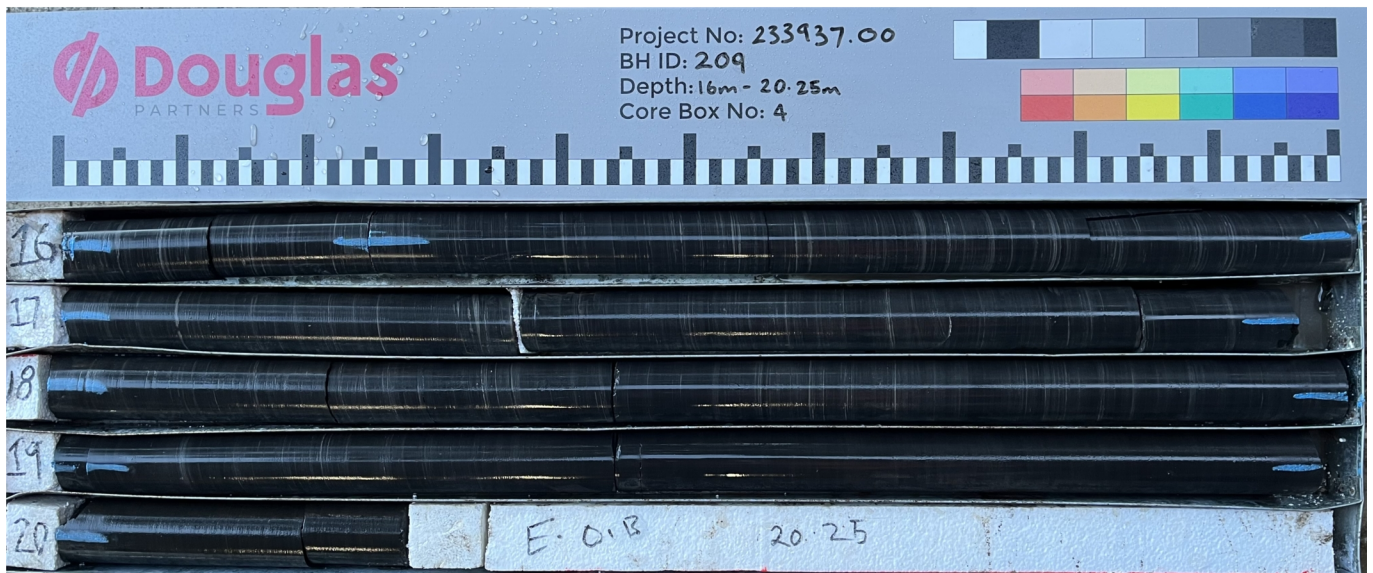
CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 96.7 AHD
COORDINATE: E:311876.1, N:6265601.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH209
PROJECT No: 233937.00
DATE: 10/07/25
SHEET: 2 of 2



11.00-16.00 m depth



16.00-20.25 m depth

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.7 AHD
COORDINATE: E:311907.6, N:6265619.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH210
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 1 of 3

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS			
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS. ^(*) DENSITY, ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	0.20	TOPSOIL / Silty CLAY trace grass roots: grey; low plasticity.		TOP FILL	ND	w<PL		A		0.10		12,15,18 N=33
	1.00	CLAY (CH): grey brown; high plasticity.		RS	(St)	w=PL		A		0.40 0.50		
	1.20	CLAY (CI): brown; medium plasticity.		RS	VSt - H	w<PL		A		0.90 1.00		
								SPT		1.45	SPT	
	2.00	Continued as rock log								2		
	3									3		
	4									4		
	5									5		
	6									6		
	7									7		
	8									8		
	9									9		

NOTES: ^(*)Soil origin is "probable" unless otherwise stated. ^(*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

NOTES: ^(a)Soil origin is "probable" unless otherwise stated. ^(c)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Explorer
METHOD: AD/T to 2.0m, NMLC to 10.20m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 2m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.7 AHD
COORDINATE: E:311907.6, N:6265619.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH210
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 2 of 3

CONDITIONS ENCOUNTERED														SAMPLE			TESTING			
GROUNDWATER	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered) SOIL MOISTURE	GRAPHIC	WEATH.	DEPTH (m)	STRENGTH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
RL (m)					RS XW HW MW SW FR	VL L M H VH				100% 90% 80% 70% 60%										
100	1																			
99	2	Continued from soil log SILTSTONE: grey-brown. Ashfield Shale.																		
98	2.55																			
97	3				MW	M					2.55-3.10m: FG, SN Fe									
					XW	SEAM					3.25-3.55m: DS, Clay									
					HW	VL		83	32											
					MW	L											PLT	PL(A)=0.22MPa		
	4.00	SILTSTONE: grey-brown; 10-20% clay. Ashfield Shale.									3.80-4.20m: FG									
96	4					VL					4.40-4.55m: FG, Clay									
	5										4.80-4.85m: CS									
						VL					5.15-5.20m: CS									
					XW HW	SEAM					5.50-5.65m: DS									
95	6					VL					5.85-5.95m: CS									
						SEAM					6.00-6.70m: DS									
								100	42		6.70-6.90m: FG, SN Fe						PLT	PL(A)=0.30MPa		
94	6.70	SILTSTONE: grey and brown. Ashfield Shale.									7.25m: JT, 45°, PR, RF, FG									
	7				MW	L M					7.50-7.70m: FG, Clay						PLT	PL(A)=0.80MPa		
											7.70m: JT, 85°, PR, SN Fe, RF						PLT	PL(A)=0.52MPa		
93	8										7.80m: JT, 30°, PR, SN Fe, RF									
											7.85m: JT, 45°, PR, CN, SM						PLT	PL(A)=0.54MPa		
						M					8.10m: JT, 80°, UN, CN, RF									
											8.35m: JT, 35°, UN, Fe, RF									
92	9										8.60m: JT, 45°, PR, CN, SM									
					FR						8.92m: JT, 85°, PR, CN, SM									
	9.00	SILTSTONE: grey; 1% fine grained sandstone laminations. Ashfield Shale.						100	100		9.10m: JT, 80°, UN, CN, RF						PLT	PL(A)=1.2MPa		
91						H											PLT	PL(A)=1.2MPa		

NOTES: *Soil origin is "probable" unless otherwise stated.

NOTES: *Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 2.0m, NMLC to 10.20m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 2m

BOREHOLE LOG

CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.7 AHD
COORDINATE: E:311907.6, N:6265619.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH210
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 3 of 3

CONDITIONS ENCOUNTERED											SAMPLE			TESTING									
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	SOIL STRENGTH (where encountered)	SOIL MOISTURE	GRAPHIC	RS RW DW MW SW FR	WEATH. FR	DEPTH (m)	STRENGTH VL L M H VH EH	RECOVERY (%)	RQD	FRACTURE SPACING (m)	DEFECTS & REMARKS	SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE	
			[CONT] SILTSTONE: grey; 1% fine grained sandstone laminations. Ashfield Shale.					FR			100	100		10.20m: JT, 45°, PR, CN, SM									
	90	11	Borehole discontinued at 10.20m depth. Target depth reached.																				

NOTES: #Soil origin is "probable" unless otherwise stated.

PLANT: Explorer
METHOD: AD/T to 2.0m, NMLC to 10.20m
REMARKS: Grass cover at surface

OPERATOR: Ground Test (S. Salib)

LOGGED: S. Islam
CASING: HW to 2m



CORE PHOTO LOG

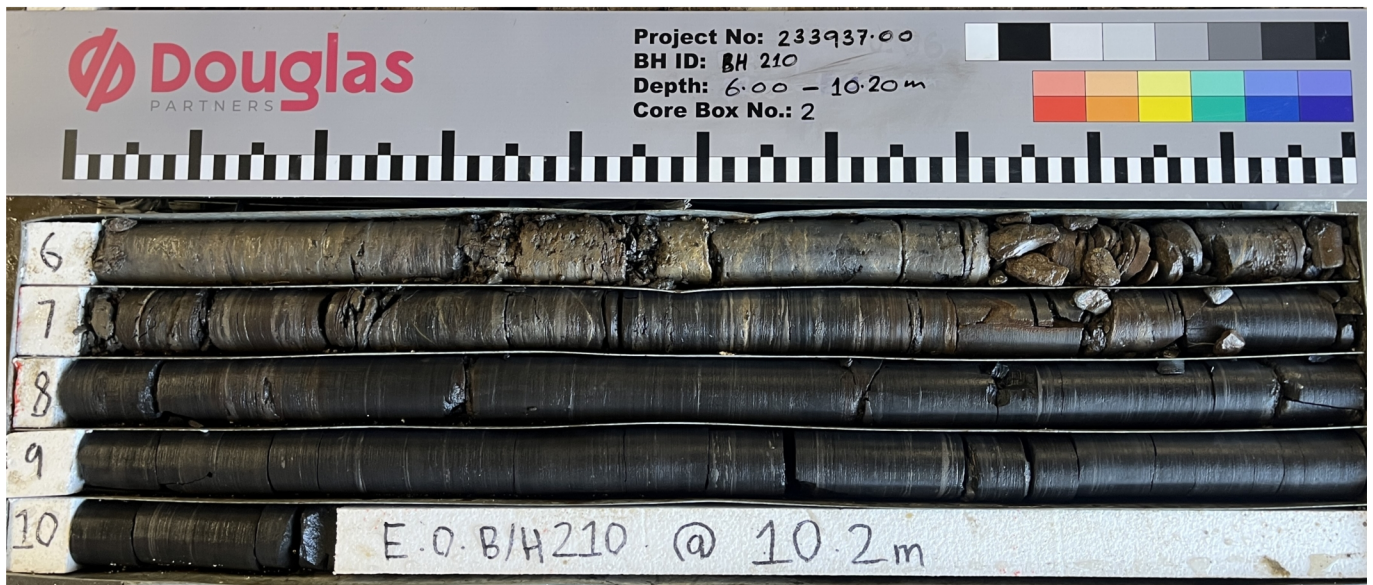
CLIENT: GreenSquareDC Pty Ltd
PROJECT: Green Square DC SYDGPU1
LOCATION: 3 Brookhollow Avenue, Baulkham Hills, NSW 2153

SURFACE LEVEL: 100.7 AHD
COORDINATE: E:311907.6, N:6265619.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH210
PROJECT No: 233937.00
DATE: 18/07/25
SHEET: 1 of 1



2.00-6.00 m depth



6.00-10.20 m depth

Appendix D

Relevant Laboratory Test Results

CERTIFICATE OF ANALYSIS 381866

Client Details

Client	Douglas Partners Pty Ltd
Attention	Adam Teoh
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>233937.00 Baulkham Hills</u>
Number of Samples	4 Soil
Date samples received	28/05/2025
Date completed instructions received	28/05/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	04/06/2025
Date of Issue	04/06/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Diego Bigolin, Inorganics Supervisor
 Tabitha Roberts, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

Soil Aggressivity					
Our Reference		381866-1	381866-2	381866-3	381866-4
Your Reference	UNITS	BH107	BH109	BH110	BH110
Depth		4.1-4.45	1-1.45	4.5-4.95	6-6.45
Date Sampled		21/05/2025	21/05/2025	20/05/2025	20/05/2025
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	30/05/2025	30/05/2025	30/05/2025	30/05/2025
Date analysed	-	30/05/2025	30/05/2025	30/05/2025	30/05/2025
pH 1:5 soil:water	pH Units	5.6	5.2	5.3	5.3
Electrical Conductivity 1:5 soil:water	µS/cm	34	90	[NA]	[NA]
Chloride, Cl 1:5 soil:water	mg/kg	<10	66	10	43
Sulphate, SO4 1:5 soil:water	mg/kg	20	45	27	64

Texture and Salinity*			
Our Reference		381866-3	381866-4
Your Reference	UNITS	BH110	BH110
Depth		4.5-4.95	6-6.45
Date Sampled		20/05/2025	20/05/2025
Type of sample		Soil	Soil
Date prepared	-	29/05/2025	29/05/2025
Date analysed	-	29/05/2025	29/05/2025
Electrical Conductivity 1:5 soil:water	µS/cm	57	87
Texture Value	-	7.0	7.0
Texture	-	MEDIUM CLAY	MEDIUM CLAY
ECe	dS/m	<2	<2
Class	-	NON SALINE	NON SALINE

ESP/CEC			
Our Reference		381866-3	381866-4
Your Reference	UNITS	BH110	BH110
Depth		4.5-4.95	6-6.45
Date Sampled		20/05/2025	20/05/2025
Type of sample		Soil	Soil
Date prepared	-	04/06/2025	04/06/2025
Date analysed	-	04/06/2025	04/06/2025
Exchangeable Ca	meq/100g	0.3	0.1
Exchangeable K	meq/100g	0.2	0.3
Exchangeable Mg	meq/100g	2.0	3.6
Exchangeable Na	meq/100g	0.6	1.0
Cation Exchange Capacity	meq/100g	3.1	5.0
ESP	%	19	20

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
INORG-123	Determined using a "Texture by Feel" method.
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.

QUALITY CONTROL: Soil Aggressivity					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			30/05/2025	1	30/05/2025	30/05/2025		30/05/2025	[NT]
Date analysed	-			30/05/2025	1	30/05/2025	30/05/2025		30/05/2025	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	1	5.6	5.5	2	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	1	34	33	3	103	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	1	<10	<10	0	103	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	1	20	10	67	97	[NT]

QUALITY CONTROL: Texture and Salinity*					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			29/05/2025	[NT]	[NT]	[NT]	[NT]	29/05/2025	[NT]
Date analysed	-			29/05/2025	[NT]	[NT]	[NT]	[NT]	29/05/2025	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: ESP/CEC					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			04/06/2025	[NT]	[NT]	[NT]	[NT]	04/06/2025	[NT]
Date analysed	-			04/06/2025	[NT]	[NT]	[NT]	[NT]	04/06/2025	[NT]
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

Report Comments

Samples received in good order: Holding time exceedance

CERTIFICATE OF ANALYSIS 387047

Client Details

Client	Douglas Partners Pty Ltd
Attention	Adam Teoh
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	<u>233937.00 Baulkham Hills</u>
Number of Samples	14 Soil
Date samples received	29/07/2025
Date completed instructions received	29/07/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client unless as indicated below in the method summaries. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	05/08/2025
Date of Issue	05/08/2025

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Results Approved By

Diego Bigolin, Inorganics Supervisor
 Loren Bardwell, Development Chemist
 Priya Samarawickrama, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

Misc Inorg - Soil

Our Reference		387047-1	387047-2	387047-3	387047-4	387047-5
Your Reference	UNITS	BH203	BH201	BH206	BH203	BH202
Depth		1.00-1.45	0.90-1.00	0.90-1.00	2.50-2.78	0.40-0.50
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/07/2025	31/07/2025	31/07/2025	31/07/2025	31/07/2025
Date analysed	-	31/07/2025	31/07/2025	31/07/2025	31/07/2025	31/07/2025
pH 1:5 soil:water	pH Units	5.2	5.6	6.2	5.3	6.5
Electrical Conductivity 1:5 soil:water	µS/cm	45	26	170	46	[NA]
Chloride, Cl 1:5 soil:water	mg/kg	<10	<10	36	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	44	10	130	44	170

Misc Inorg - Soil

Our Reference		387047-6	387047-7	387047-8	387047-9	387047-10
Your Reference	UNITS	BH207	BH207	BH210	BH210	BH204
Depth		0.50-0.60	0.90-1.00	1.00-1.45	0.40-0.50	1.00-1.45
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/07/2025	31/07/2025	31/07/2025	31/07/2025	31/07/2025
Date analysed	-	31/07/2025	31/07/2025	31/07/2025	31/07/2025	31/07/2025
pH 1:5 soil:water	pH Units	5.4	5.4	5.6	5.4	5.7
Chloride, Cl 1:5 soil:water	mg/kg	<10	20	<10	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	85	88	30	20	10

Misc Inorg - Soil

Our Reference		387047-11	387047-12	387047-13	387047-14
Your Reference	UNITS	BH204	BH206	BH205	BH208
Depth		2.5-2.95	1.00-1.45	0.40-0.50	0.90-1.00
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	31/07/2025	31/07/2025	31/07/2025	31/07/2025
Date analysed	-	31/07/2025	31/07/2025	31/07/2025	31/07/2025
pH 1:5 soil:water	pH Units	5.6	5.6	5.4	5.1
Chloride, Cl 1:5 soil:water	mg/kg	<10	60	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	10	110	20	190

ESP/CEC						
Our Reference		387047-5	387047-6	387047-7	387047-8	387047-9
Your Reference	UNITS	BH202	BH207	BH207	BH210	BH210
Depth		0.40-0.50	0.50-0.60	0.90-1.00	1.00-1.45	0.40-0.50
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2025	04/08/2025	04/08/2025	04/08/2025	04/08/2025
Date analysed	-	04/08/2025	04/08/2025	04/08/2025	04/08/2025	04/08/2025
Exchangeable Ca	meq/100g	17	3.4	0.3	1.2	1
Exchangeable K	meq/100g	0.4	0.2	0.3	0.4	0.5
Exchangeable Mg	meq/100g	1.4	3.3	3.1	3.7	2.6
Exchangeable Na	meq/100g	<0.1	0.5	1.0	0.2	<0.1
Cation Exchange Capacity	meq/100g	19	7.5	4.7	5.6	4.2
ESP	%	<1	6	22	4	<1

ESP/CEC						
Our Reference		387047-10	387047-11	387047-12	387047-13	387047-14
Your Reference	UNITS	BH204	BH204	BH206	BH205	BH208
Depth		1.00-1.45	2.5-2.95	1.00-1.45	0.40-0.50	0.90-1.00
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/08/2025	04/08/2025	04/08/2025	04/08/2025	04/08/2025
Date analysed	-	04/08/2025	04/08/2025	04/08/2025	04/08/2025	04/08/2025
Exchangeable Ca	meq/100g	<0.1	<0.1	1.1	0.4	1.0
Exchangeable K	meq/100g	0.1	0.3	0.3	0.1	0.1
Exchangeable Mg	meq/100g	1.3	1.4	4.0	2.1	1.4
Exchangeable Na	meq/100g	0.2	0.6	1.3	0.2	0.2
Cation Exchange Capacity	meq/100g	1.7	2.3	6.7	2.8	2.8
ESP	%	11	26	20	6	7

Texture and Salinity*						
Our Reference	UNITS	387047-5	387047-6	387047-7	387047-8	387047-9
Your Reference		BH202	BH207	BH207	BH210	BH210
Depth		0.40-0.50	0.50-0.60	0.90-1.00	1.00-1.45	0.40-0.50
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	30/07/2025	30/07/2025	30/07/2025	30/07/2025	30/07/2025
Date analysed	-	30/07/2025	30/07/2025	30/07/2025	30/07/2025	30/07/2025
Electrical Conductivity 1:5 soil:water	µS/cm	190	74	86	31	30
Texture Value	-	9.0	9.0	10	6.0	7.0
Texture	-	CLAY LOAM	CLAY LOAM	LOAM	HEAVY CLAY	MEDIUM CLAY
ECe	dS/m	<2	<2	<2	<2	<2
Class	-	NON SALINE	NON SALINE	NON SALINE	NON SALINE	NON SALINE

Texture and Salinity*						
Our Reference	UNITS	387047-10	387047-11	387047-12	387047-13	387047-14
Your Reference		BH204	BH204	BH206	BH205	BH208
Depth		1.00-1.45	2.5-2.95	1.00-1.45	0.40-0.50	0.90-1.00
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	30/07/2025	30/07/2025	30/07/2025	30/07/2025	30/07/2025
Date analysed	-	30/07/2025	30/07/2025	30/07/2025	30/07/2025	30/07/2025
Electrical Conductivity 1:5 soil:water	µS/cm	19	28	150	28	140
Texture Value	-	6.0	10	9.0	7.0	7.0
Texture	-	HEAVY CLAY	LOAM	CLAY LOAM	MEDIUM CLAY	MEDIUM CLAY
ECe	dS/m	<2	<2	<2	<2	<2
Class	-	NON SALINE	NON SALINE	NON SALINE	NON SALINE	NON SALINE

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
INORG-123	Determined using a "Texture by Feel" method.
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			31/07/2025	1	31/07/2025	31/07/2025		31/07/2025	[NT]
Date analysed	-			31/07/2025	1	31/07/2025	31/07/2025		31/07/2025	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	1	5.2	5.2	0	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	1	45	49	9	99	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	1	<10	<10	0	91	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	1	44	47	7	99	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	31/07/2025	31/07/2025		[NT]	[NT]
Date analysed	-			[NT]	11	31/07/2025	31/07/2025		[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	11	5.6	5.6	0	[NT]	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	11	<10	<10	0	[NT]	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	11	10	10	0	[NT]	[NT]

QUALITY CONTROL: ESP/CEC					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	387047-8
Date prepared	-			04/08/2025	[NT]	[NT]	[NT]	[NT]	04/08/2025	04/08/2025
Date analysed	-			04/08/2025	[NT]	[NT]	[NT]	[NT]	04/08/2025	04/08/2025
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	96	97
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	94	89
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	93	95
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	86	82

QUALITY CONTROL: Texture and Salinity*					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			30/07/2025	[NT]	[NT]	[NT]	[NT]	30/07/2025	[NT]
Date analysed	-			30/07/2025	[NT]	[NT]	[NT]	[NT]	30/07/2025	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.