GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER FORM NO. 1 – To be submitted with Development Application

| Develo | pment Application | on for | | | | | | |
|--------------------------------|--|---|--|---|---|--|------------------------------|--|
| Develo | hineiit Abhiicatii | JII 101 | | Name o | f Applicant | | | |
| Addres | ss of site | 231 – | 233 McCar | rs Creek Ro | oad, Church | Point | | |
| | wing checklist cou nical engineer o | | | | | | | tion made by geotechnical report |
| l, | Ben White (Insert Name) | on | behalf of W | | chnical Gro or Company N | | | |
| engineer organisa | as defined by the | he Geotechi ssue this do | nical Risk M | lanagement F | Policy for Pittw | ater - 2009 a | and I am auth | g geologist or coastal norised by the above rofessional indemnity |
| l: Please r | nark appropriate | box | | | | | | |
| \boxtimes | | lide Risk M | | | | | | stralia Geomechanics anagement Policy for |
| \boxtimes | | the Australi | ian Geomech | hanics Society | /'s Landslide F | | | as been prepared in s (AGS 2007) and the |
| | have examined to with Section 6.0 | the site and of the Geot the propos | the proposed technical Risk ted developm | d developmen k Managemer nent are in co | nt in detail and nt Policy for Pit compliance with | twater - 2009. the Geotech | I confirm that nical Risk Ma | ssment in accordance the results of the risk anagement Policy for |
| | have examined to Application only | the site and i | the proposed Minor Devel | d development opment/Altera | t/alteration in dation that | etail and I ames s not require | of the opinion a Geotechr | that the Development nical Report or Risk cy for Pittwater - 2009 |
| | have examined t | es not require al Risk Mana | e a Geotechr agement Polic | nical Report o | or Risk Assess er - 2009 requi | ment and hence rements. | ce my Report | ted by a Geotechnical is in accordance with Report |
| Geotech | nical Report Det | ails: | | | | | | |
| | Report Title: Geo Report Date: 4/4 | | eport 231 – | 233 McCarı | rs Creek Roa | ad, Church I | Point | |
| | Author: BEN Wh | HITE | | | | | | |
| | Author's Compar | ny/Organisa | tion: WHITE | GEOTECHNI | CAL GROUP | PTY LTD | | |
| Docume | ntation which re | late to or a | re relied upo | on in report p | reparation: | | | |
| | Australian G | eomecha | anics Soci | ety Lands | lide Risk M | anagemer | nt March 2 | :007. |
| | White Geote | echnical (| Group cor | mpany ard | chives. | | | |
| Developi Risk Ma Managei | ment Application f nagement aspect | for this site a s of the pro life of the st | and will be re oposed devel tructure, take | elied on by Pi lopment have n as at least 1 | ttwater Counce been adequated to the second | il as the basis ately addresse ss otherwise st | for ensuring ted to achieve | nitted in support of a that the Geotechnical an "Acceptable Risk fied in the Report and |
| | | <u>Signatur</u> | re | Bu | lute | | | |

Chartered Professional Status MScGEOLAusIMM CP GEOL

Company White Geotechnical Group Pty Ltd

Membership No.

Ben White

GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER FORM NO. 1(a) - Checklist of Requirements for Geotechnical Risk Management Report for Development Application

| | | Dev | reiopinent Application | |
|-----------------|---|---|---|----------------------------------|
| Develo | opment Application | for | Name of Applicant | |
| | | | | |
| | ss of site | | rrs Creek Road, Church Point | |
| | | | ments to be addressed in a Geotechnical Rish nical Report and its certification (Form No. 1). | |
| Geotecl | nnical Report Detail | s: | | |
| Report | : Title: Geotechnical I | Report 231 – 233 MC | Carrs Creek Road, Church Point | |
| Report | Date: 4/4/25 | | | |
| Author | : BEN WHITE | | | |
| Autho | r's Company/Organ | isation: WHITE GEOT | FECHNICAL GROUP PTY LTD | |
| | mark appropriate be | | | |
| i icasc i | | | | |
| \boxtimes | Comprehensive site | mapping conducted 15/ | | |
| \boxtimes | Mapping details pre | • | date) e plan with geomorphic mapping to a minimum so | cale of 1:200 (as appropriate) |
| \boxtimes | Subsurface investig | | , prant train goothorprine mapping to a minimum of | (ac appropriate) |
| | □ No | Justification | | |
| | | Date conducted 15/2/2 | | |
| | | | d as an inferred subsurface type-section | |
| \boxtimes | Geotechnical hazar | | | |
| | ⊠ Above | | | |
| | ⊠ On the | | | |
| | ⊠ Below | | | |
| | ☐ Beside | | , d | |
| \boxtimes | | ds described and reporte | ed with the Geotechnical Risk Management Policy fo | or Bittwator 2000 |
| | _ | equence analysis | with the Geotechnical Kisk Management Folicy it | n Fillwater - 2009 |
| | | ency analysis | | |
| \boxtimes | Risk calculation | only analysis | | |
| \boxtimes | | r property conducted in a | accordance with the Geotechnical Risk Managem | nent Policy for Pittwater - 2009 |
| \boxtimes | | • • • | a accordance with the Geotechnical Risk Manage | _ |
| \boxtimes | | | ceptable Risk Management" criteria as defined in | _ |
| | Management Policy | - | | |
| \boxtimes | | | an achieve the "Acceptable Risk Management" o | riteria provided that the |
| | specified conditions | | | |
| \boxtimes | Design Life Adopted | | | |
| | ⊠ 100 y∉ □ Other | | | |
| | □ Other | specify | | |
| \boxtimes | Geotechnical Condi | | four phases as described in the Geotechnical Ri | sk Management Policy for |
| | Pittwater - 2009 hav | | · | |
| \boxtimes | | | onable and practical have been identified and inc | luded in the report. |
| | Risk assessment wi | thin Bushfire Asset Prote | ection Zone. | |
| that the Manage | geotechnical risk ma ment" level for the lit | nagement aspects of th fe of the structure, take | eotechnical Report, to which this checklist ap ne proposal have been adequately addressed en as at least 100 years unless otherwise sta een identified to remove foreseeable risk. | to achieve an "Acceptable Risk |
| | | Signature | Bulut | _ |
| | | Name | Ben White | 2 |
| | | Name | | |
| | | Chartered Professiona | al Status MScGEOLAusIMM CP GEO | <u>=</u> . |

Company White Geotechnical Group Pty Ltd

Membership No.

222757



J4041C. 4th April, 2025. Page 1.

GEOTECHNICAL INVESTIGATION:

New House at 231 – 233 McCarrs Creek Road, Church Point

1. Proposed Development

- 1.1 Construct a new house by excavating up to a maximum depth of ~5.8m.
- 1.2 Construct a new driveway on the downhill side of the property by excavating to a maximum depth of ~1.1m.
- 1.3 Details of the proposed development are shown on 8 plans by S&E Design Studio, Job number SE2501, drawings numbered 00 to 07, dated 16.2.25.

2. Site Description

- **2.1** The site was inspected on the 15th February, 2022.
- 2.2 This vacant lot is on the high side of the road and has a NW aspect. It is located on the moderate to steeply graded lower reaches of a hillslope. The natural slope rises across the property at an average angle of ~17°. The slope above and below the property continues at similar angles.
- 2.3 The natural slope rises up a steep embankment above McCarrs Creek Road (Photo 1). The slope across and above the property is well vegetated (Photos 2 & 3). Sandstone joint blocks are embedded in stable positions in the slope (Photo 4). Densely vegetated bushland extends and continue beyond the upper boundary.

3. Geology

The Sydney 1:100 000 Geological sheet indicates the site is underlain by the Newport Formation of the Narrabeen Group. This is described as interbedded laminite, shale and quartz to lithic quartz sandstone.



J4041C. 4th April, 2025. Page 2.

4. Subsurface Investigation

One hand Auger Hole (AH) was put down to identify soil materials. Six Dynamic Cone Penetrometer (DCP) tests were put down to determine the relative density of the overlying soil and the depth to weathered rock. The locations of the tests are shown on the site plan attached. It should be noted that a level of caution should be applied when interpreting DCP test results. The test will not pass through hard buried objects so in some instances it can be difficult to determine whether refusal has occurred on an obstruction in the profile or on the natural rock surface. This is not expected to be an issue for the testing on this site. However, excavation and foundation budgets should always allow for the possibility that the interpreted ground conditions in this report vary from those encountered during excavations. See the appended "Important information about your report" for a more comprehensive explanation. The results are as follows:

AUGER HOLE 1 (~RL26.5) – AH1 (Photo 5)

| Depth (m) | Material Encountered |
|------------|---|
| 0.0 to 0.2 | TOPSOIL , dark brown and black, clayey soil, medium grained, loose, fine trace of organic matter, dry. |
| 0.2 to 0.8 | CLAY , orange, fine grained, stiff to hard, dry. |

End of test @ 0.8m. No water table encountered.

DCP RESULTS ON THE NEXT PAGE



J4041C. 4th April, 2025. Page 3.

| DCP TEST RESULTS – Dynamic Cone Penetrometer | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Equipment: 9kg hammer, 510mm drop, conical tip. Standard: AS1289.6.3.2 - 1997 | | | | | | |
| Depth(m) DCP 1 DCP 2 DCP 3 DCP 4 DCP 5 | | | | DCP 5 | DCP 6 | |
| Blows/0.3m | (~RL28.0) | (~RL29.5) | (~RL26.5) | (~RL27.0) | (~RL22.0) | (~RL23.0) |
| 0.0 to 0.3 | 6 | 5 | 5 | 3 | 2 | 4 |
| 0.3 to 0.6 | 12 | 12 | 11 | 7 | 7 | 5 |
| 0.6 to 0.9 | 15 | 15 | 16 | 12 | 12 | 13 |
| 0.9 to 1.2 | 25 | 23 | 19 | 18 | 17 | 17 |
| 1.2 to 1.5 | 36 | 31 | 23 | 24 | 25 | 21 |
| 1.5 to 1.8 | # | # | 32 | 29 | 27 | 24 |
| 1.8 to 2.1 | | | # | 34 | 35 | 31 |
| 2.1 to 2.4 | | | | # | # | # |
| | End of Test @ 1.5m | End of Test @ 1.5m | End of Test @ 1.8m | End of Test @ 2.1m | End of Test @ 2.1m | End of Test @ 2.1m |

#refusal/end of test. F=DCP fell after being struck showing little resistance through all or part of the interval.

DCP Notes:

DCP1 – End of test @ 1.5m, DCP still going down slowly, orange clay on dry tip.

DCP2 – End of test @ 1.5m, DCP still going down slowly, orange clay on dry tip.

DCP3 – End of test @ 1.8m, DCP still going down slowly, orange clay on dry tip.

DCP4 – End of test @ 2.1m, DCP still going down slowly, orange clay on dry tip.

DCP5 – End of test @ 2.1m, DCP still going down slowly, orange clay on dry tip.

DCP6 – End of test @ 2.1m, DCP still going down slowly, orange clay on dry tip.

5. Geological Observations/Interpretation

The slope materials are colluvial at the near surface and residual at depth. In the test locations, the ground materials consist of shallow soils over clays. The clay merges into the underlying weathered rock at depths of between ~0.9m to ~1.5m below the current surface. The weathered zone is interpreted to be Extremely Low Strength Shale. See Type Section attached for a diagrammatical representation of the expected ground materials.



J4041C. 4th April, 2025.

Page 4.

6. Groundwater

Normal ground water seepage is expected to move over the buried surface of the rock and through the cracks. Due to the slope and elevation of the block, the water table is expected to be many metres below the base of the proposed works.

7. Surface Water

No evidence of surface flows were observed on the property during the inspection. It is expected that normal sheet wash will move onto the site from above the property during heavy down pours.

8. Geotechnical Hazards and Risk Analysis

No geotechnical hazards were observed beside the property. The moderate to steeply graded slope that rises across the property and continues above and below is a potential hazard (Hazard One). The proposed excavations are a potential hazard until retaining walls are in place (Hazard Two).

RISK ANALYSIS ON THE NEXT PAGE



J4041C. 4th April, 2025. Page 5.

Risk Analysis Summary

| HAZARDS | Hazard One | Hazard Two | | |
|--------------------------|-------------------------------------|---|--|--|
| ТҮРЕ | The moderate to steep slope that | The excavations for the new house | | |
| | rises across the property and | and driveway (up to a maximum | | |
| | continues above and below failing | depth of ~5.8m) collapsing onto | | |
| | and impacting on the proposed | the work site before retaining | | |
| | works. | structures are in place. | | |
| LIKELIHOOD | 'Unlikely' (10 ⁻⁴) | 'Possible' (10 ⁻³) | | |
| CONSEQUENCES TO PROPERTY | 'Medium' (15%) | 'Medium' (15%) | | |
| RISK TO PROPERTY | 'Low' (2 x 10 ⁻⁵) | 'Moderate' (2 x 10 ⁻⁴) | | |
| RISK TO LIFE | 9.1 x 10 ⁻⁷ /annum | 8.3 x 10 ⁻⁶ /annum | | |
| COMMENTS | This level of risk is 'ACCEPTABLE'. | This level of risk to life and property is 'UNNACEPTABLE'. To move risk to 'ACCEPTABLE' levels, the recommendations in Section 13 and 14 are to be followed. | | |

(See Aust. Geomech. Jnl. Mar 2007 Vol. 42 No 1, for full explanation of terms)

9. Suitability of the Proposed Development for the Site

The proposed development is suitable for the site. No geotechnical hazards will be created by the completion of the proposed development provided it is carried out in accordance with the requirements of this report and good engineering and building practice.

10. Stormwater

The fall is to McCarrs Creek Road. Roof water from the development is to be piped to the street drainage system through any tanks that may be required by the regulating authorities.

11. Excavations

Two excavations will be required for the proposed development:

- An excavation to a maximum depth of ~5.8m for the proposed house.
- An excavation to a maximum depth of ~1.1m for the proposed driveway.



J4041C.

4th April, 2025.

Page 6.

The excavations are expected to be through soil and clay with Extremely Low Strength Shale

expected at depths of between ~0.9m and ~1.5m. It is envisaged that excavations through

soil, clay, and Extremely Low Strength Shale can be carried out with an excavator and bucket.

12. Vibrations

No excessive vibrations will be generated by excavation through soil, clay, and Extremely Low

Strength Shale. Any vibrations generated by a domestic machine and bucket up to 20 ton

carrying out excavation works will be below the threshold limit for infrastructure or building

damage.

13. Excavation Support Advice

The excavation for the proposed house will reach a maximum depth of ~5.8m. The excavation

for the proposed driveway will reach a maximum depth of ~1.1m. Allowing 0.5m for back wall

drainage, the setbacks from the proposed excavation to the existing structures/boundaries

are as follows:

• ~1.5m from the N common boundary.

• ~3.5m from the S common boundary.

• ~4.1m from the E common boundary.

As such, only the N common boundary will lie within the zone of influence of the proposed

excavations. In this instance, the zone of influence is the area above a theoretical 45° line

through clay and shale from the base of the excavation towards the surrounding structures

and boundaries. This line reduces to 30° through the fill and soil.

No structures or boundaries are expected to lie within the zone of influence of the proposed

driveway.



J4041C. 4th April, 2025. Page 7.

Due to the depth of the excavations, we recommend heavy ground support be installed in areas where the excavation exceeds 2.5m in depth prior to the commencement of the excavations to ensure the safety of any workers below the cut.

See the site plan attached for the minimum required extent of the shoring shown in blue.

A spaced piled retaining wall is a suitable method of support. Pier spacing for the wall is typically ~2.0m but can vary between 1.6 to 2.4m depending on the design. To drill the pier holes for the wall, a mini piling rig or similar that can excavate through Medium to High Strength Rock is recommended as the ground testing did not extend to the likely required depth of the piles. If a machine of this type is not available, we recommend carrying out core drilling before the construction commences to confirm the strength of the rock and to ensure the excavation equipment is capable of reaching the required depths. As the excavation is lowered in 1.5m lifts, infill sprayed concrete panels or similar are added between the piers to form the spaced wall. Drainage is installed behind the panels. The piers can be temporarily supported by embedment below the base of the excavation, or by a combination of embedment and temporary propping. Upon completion, the piled walls are to be tied into the concrete floor and ceiling slabs of the house to provide permanent bracing.

The geotechnical consultant is to inspect the drilling process of the entire first pile and the ground materials at the base of all pier holes/excavations for ground support purposes.

For ease of design and construction, it might be desirable to continue the spaced piled wall around the entire perimeter of the entire house and driveway. Alternatively, any excavations between 1.5m and 2.5m will require the installation of temporary or other permanent shoring installed as the excavation is progressed so the cut face is not left unsupported.

The remaining fill and soil portions of the excavation faces are to be battered temporarily at 1.0 Vertical to 1.7 Horizontal (30°) until the retaining walls are in place. Excavations through natural clay and weathered rock are expected to stand unsupported for a short period of time



J4041C. 4th April, 2025. Page 8.

at near vertical angles until the retaining walls are in place, provided they are kept from becoming saturated.

During the excavation process, the geotechnical consultant is to inspect the cuts in 1.5m intervals as they are lowered, while the machine/excavation equipment is on site, to ensure the ground materials are as expected and no additional temporary support is required.

Upslope runoff is to be diverted from the cut faces by sandbag mounds or other diversion works. All unsupported cut batters through fill, soil, and clay are to be covered to prevent access of water in wet weather and loss of moisture in dry weather. The covers are to be tied down with metal pegs or other suitable fixtures so they cannot blow off in a storm. The materials and labour to construct the retaining walls are to be organised so on completion of the excavations they can be constructed as soon as possible. The excavations are to be carried out during a dry period. No excavations are to commence if heavy or prolonged rainfall is forecast.

All excavation spoil is to be removed from site following the current Environmental Protection Agency (EPA) waste classification guidelines.

14. Retaining Walls

For cantilever or singly-propped retaining walls, it is suggested the design be based on a triangular pressure distribution of lateral pressures using the parameters shown in Table 1.

Table 1 – Likely Earth Pressures for Retaining Walls

| | Earth Pressure Coefficients | | | | | | |
|---------------------------------|-----------------------------|-------------------------|--------------|-----------------------------------|--|--|--|
| Unit | Unit weight (kN/m³) | 'Active' K _a | 'At Rest' K₀ | Passive Pressure 'Ultimate' | | | |
| Soil and Residual Clays | 20 | 0.40 | 0.55 | N/A | | | |
| Extremely Low Strength Shale | 22 | 0.25 | 0.35 | Kp 2.5 ultimate | | | |

For rock classes refer to Pells et al "Design Loadings for Foundations on Shale and Sandstone in the Sydney Region". Australian Geomechanics Journal 1978.



J4041C. 4th April, 2025.

Page 9.

It is to be noted that the earth pressures in Table 1 assume a level surface above the structure,

do not account for any surcharge loads, and assume retaining walls are fully drained. It should

be noted that passive pressure is an ultimate value and should have an appropriate safety

factor applied. No passive resistance should be assumed for the top 0.4m to account for any

disturbance from the excavation. Rock strength and relevant earth pressure coefficients are

to be confirmed on site by the geotechnical consultant.

All retaining walls are to have sufficient back-wall drainage and be backfilled immediately

behind the structure with free-draining material (such as gravel). This material is to be

wrapped in a non-woven Geotextile fabric (i.e., Bidim A34 or similar), to prevent the drainage

from becoming clogged with silt and clay. If no back-wall drainage is installed in retaining

walls, the likely hydrostatic pressures are to be accounted for in the structural design.

15. Foundations

The house can be supported on a thickened edge/raft slab with piers taken to Extremely Low

Strength Shale where necessary. This ground material is expected to be exposed across the

majority of the base of the excavations. Where it is not exposed, and where this material

drops away with the slope, piers will be required to maintain a uniform bearing material

across the structure. This ground material is expected at depths of between ~0.9m to ~1.5m

below the current surface in the area of the proposed works.

A maximum allowable bearing pressure of 600kPa can be assumed for footings on Extremely

Low Strength Shale. It should be noted that this material is a soft rock and a rock auger will

cut through it so the builders should not be looking for refusal to end the footings.

The proposed driveway can be supported off the natural surface after any organic matter has

been stripped. A maximum allowable bearing pressure of 100kPa can be assumed for soil of

the natural surface.

As the bearing capacity of clay and shale reduces when it is wet, we recommend the footings

be dug, inspected, and poured in quick succession (ideally the same day if possible). If the



J4041C. 4th April, 2025.

Page 10.

footings get wet, they will have to be drained and the soft layer of wet clay or shale on the

footing surface will have to be removed before concrete is poured.

If a rapid turnaround from footing excavation to the concrete pour is not possible, a sealing

layer of concrete may be added to the footing surface after it has been cleaned.

NOTE: If the contractor is unsure of the footing material required, it is more cost-effective to

get the geotechnical consultant on site at the start of the footing excavation to advise on

footing depth and material. This mostly prevents unnecessary over-excavation in clay-like

shaly-rock but can be valuable in all types of geology.

16. Geotechnical Review

The structural plans are to be checked and certified by the geotechnical engineer as being in

accordance with the geotechnical recommendations. On completion, a Form 2B will be

issued. This form is required for the Construction Certificate to proceed.

17. Inspections

The client and builder are to familiarise themselves with the following required inspections

as well as council geotechnical policy. We cannot provide geotechnical certification for the

owners and Occupation Certificate if the following inspections have not been carried out

during the construction process.

The geotechnical consultant is to inspect the ground materials while the first pier for

the ground support is being dug to assess the ground strength and to ensure it is in

line with our expectations.

All finished pier holes for piled wall/excavations for ground support are to be

inspected and measured before concrete is placed.

• During the excavation process, the geotechnical consultant is to inspect the cuts in

1.5m intervals as they are lowered, while the machine/excavation equipment is on



J4041C. 4th April, 2025. Page 11.

site, to ensure the ground materials are as expected and no additional temporary support is required.

 All footings are to be inspected and approved by the geotechnical consultant while the excavation equipment and contractors are still onsite and before steel reinforcing is placed or concrete is poured.

White Geotechnical Group Pty Ltd.

Tyler Jay Johns BEng (Civil)(Hons), Geotechnical Engineer. Reviewed By:

Ben White M.Sc. Geol.,

AIG., RPGeo Geotechnical & Engineering.

No. 10306

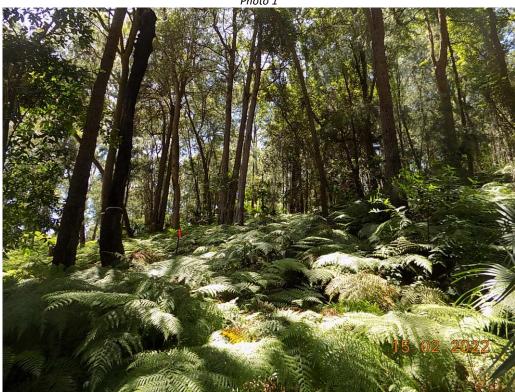
Engineering Geologist.





J4041C. 4th April, 2025. Page 12.







J4041C. 4th April, 2025. Page 13.





Photo 4



J4041C. 4th April, 2025. Page 14.



Photo 5 (Top to Bottom)



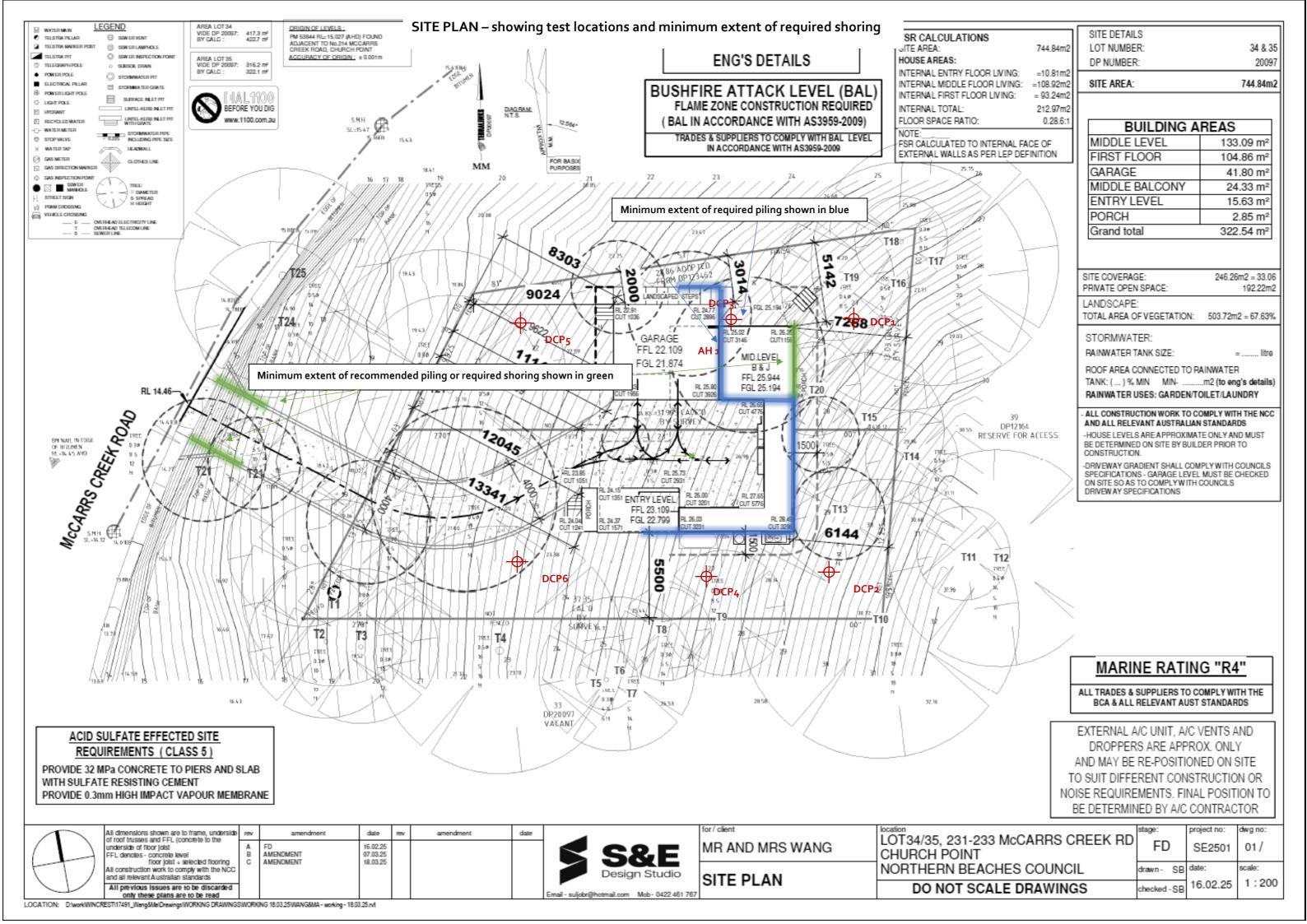
J4041C. 4th April, 2025. Page 15.

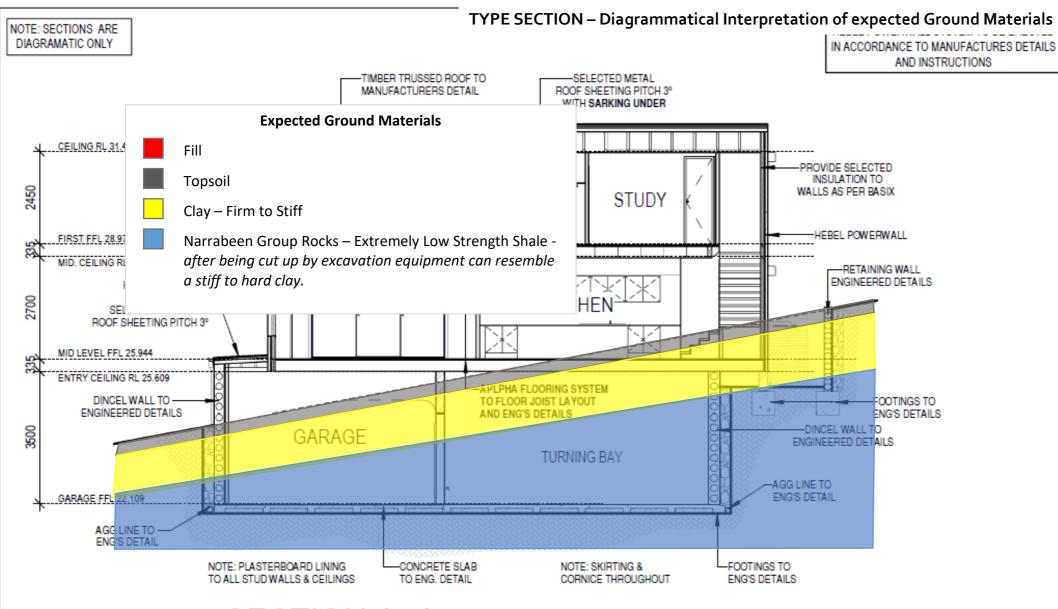
Important Information about Your Report

It should be noted that Geotechnical Reports are documents that build a picture of the subsurface conditions from the observation of surface features and testing carried out at specific points on the site. The spacing and location of the test points can be limited by the location of existing structures on the site or by budget and time constraints of the client. Additionally, the test themselves, although chosen for their suitability for the particular project, have their own limiting factors. The testing gives accurate information at the location of the test, within the confines of the test's capability. A geological interpretation or model is developed by joining these test points using all available data and drawing on previous experience of the geotechnical consultant. Even the most experienced practitioners cannot determine every possible feature or change that may lie below the earth. All of the subsurface features can only be known when they are revealed by excavation. As such, a Geotechnical report can be considered an interpretive document. It is based on factual data but also on opinion and judgement that comes with a level of uncertainty. This information is provided to help explain the nature and limitations of your report.

With this in mind, the following points are to be noted:

- If upon the commencement of the works the subsurface ground or ground water conditions prove different from those described in this report, it is advisable to contact White Geotechnical Group immediately, as problems relating to the ground works phase of construction are far easier and less costly to overcome if they are addressed early.
- If this report is used by other professionals during the design or construction process, any questions should be directed to White Geotechnical Group as only we understand the full methodology behind the report's conclusions.
- The report addresses issues relating to your specific design and site. If the proposed project design changes, aspects of the report may no longer apply. Contact White Geotechnical if this occurs.
- This report should not be applied to any other project other than that outlined in section 1.0.
- This report is to be read in full and should not have sections removed or included in other documents as this can result in misinterpretation of the data by others.
- It is common for the design and construction process to be adapted as it progresses (sometimes
 to suit the previous experience of the contractors involved). If alternative design and construction
 processes are required to those described in this report, contact White Geotechnical Group. We
 are familiar with a variety of techniques to reduce risk and can advise if your proposed methods
 are suitable for the site conditions.





SECTION A -A

1:100

GENERAL NOTES:

- PROVIDE PEST CONTROL SYSTEM TO PERIMETER OF HOME AS REQUIRED BY CERTIFYING AUTHORITY.
- AS/NZS 3000-2000 ELECTRICAL REQUIREMENTS: SAFETY SWITCH TO FRIDGE & LIGHT CIRCUITS; ISOLATING SWITCH FOR WALL OVEN.
- PROVIDE GLASSWOOL CEILING INSULATION TO ROOF SPACE OF LIVING AREAS. AS PER BASIX
- PROVIDE GLASSWOOL WALL INSULATION TO EXTERNAL WALLS OF LIVING AREAS. AS PER BASIX
- PROVIDE SHOW ERHEAD MINIMUM RATING AS PER BASIX
- KITCHEN, LAUNDRY & VANITY BASIN TAPS AS PER BASIX
- TOILET CISTERNS AS PER BASIX
- PROVIDE..... LITRE RAIN WATER TANK
- ARTIFICIAL LIGHT REQUIREMENTS TO BE AS PER BASIX
- GAS INSTANTANEOUS HOT WATER SERVICE AS PERR BASIX
- 75mm GAP BETWEEN FRIDGE & WALL TO BE MAINTAINED.
- MANHOLE POSITION IS APPROXIMATE ONLY AND MAY BE RE-POSITIONED ON SITE TO SUIT CONSTRUCTION CONSTRAINTS OR REQUIREMENTS

ALL BUILDING WORK SHALL BE CARRIED OUT IN ACORDANCE WITH THE NCC AND ALL RELEVANT STANDARDS

ALL WORK TO COMPLY WITH CDC, COUNCIL REQUIREMENTS AND ALL OTHER AUTHORITES BUILDER TO CHECK ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORK

ALL DIMENSIONS, SIZES oct ARE IN MILIMETERS

NOTE:

PROVIDE ENG'S DETAILS FOR ALL: CONCRETE SLABS FOOTINGS STEEL BEAM

BASIX

ALL PLANS TO BE READ IN CONJUCTION WITH THE BASIX CERTIFICATE AND ITS SCHEDULE OF COMMITMENTS, WHICH ARE TO BE COMPLIED WITH IN FULL

Window and SI, door Schedule Window No. wt Height Width Window Style Glazing 2300 2200 CLEAR FIXED 2400 2650 FIXED CLEAR W 1800 1500 FIXED CLEAR 1800 1500 FIXED CLEAR W 857 610 SLIDING OBSCURE / TG 1200 CLEAR 1450 SLIDING 2057 850 CLEAR AWNING W 1200 2410 SLIDING CLEAR 1200 2410 CLEAR SLIDING 1200 2410 CLEAR 10 SLIDING 11 1200 1450 SLIDING CLEAR 12 1372 1810 SLIDING CLEAR W 13 1200 1450 SLIDING OBSCURE / TG SSD 2400 3580 STACKER SL.DOOR CLEAR 2400 CLEAR SSD 3580 STACKER SL.DOOR CLEAR SD 2400 2200 SLIDING DOOR

TG - DENOTES TOUGHENED GLASS

NOTE: ALL WINDOW FRAMES AND GLASS TO COMPLY WITH BASIX CERTIFICATE

NOTE

ALL BED ROOM WINDOW OPENINGS HIGHER THAN 2.0m FROM FINISHED GROUND LEVEL TO BE PROTECTED IN ACCORDANCE WITH CLAUSE 3.9.2.6 VOLUME 2 OF THE BUILDING CODE OF AUSTRALIA

MARINE RATING "R4"

ALL TRADES & SUPPLIERS TO COMPLY WITH THE BCA & ALL RELEVANT AUST STANDARDS

FLAME ZONE CONSTRUCTION REQUIRED
(BAL IN ACCORDANCE WITH AS3959-2009)

TRADES & SUPPLIERS TO COMPLY WITH BAL LEVEL IN ACCORDANCE WITH AS3959-2009

All dimensions shown are to frame, underside of roof trusses and FFL (concrete) to underside of floor joist

FFL denotes - concrete level floor joist + selected flooring

All construction work to comply with the NCC and all relevant Australian standards

All previous issues are to be discarded only these plans are to be read

FeV amendment date rev amendment date



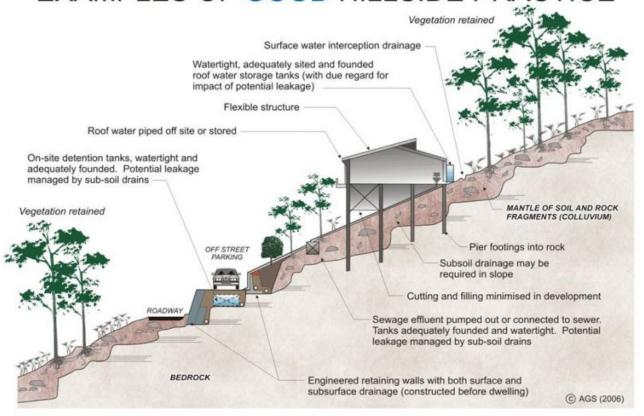
MR AND MRS WANG

SECTION/SCHEDULES

| location | stage: | | project no: | dwg no: |
|---|----------|----|-------------|---------|
| LOT34/35, 231-233 McCARRS CREEK RD CHURCH POINT | FD | | SE2501 | 07/ |
| NORTHERN BEACHES COUNCIL | drawn - | SB | date: | scale: |
| DO NOT SCALE DRAWINGS | checked- | SB | 16.02.25 | 1:100 |

LOCATION: DtworkWINCRESTI17491_Wang&MaiDrawingsIWORKING DRAWINGSIWORKING 18.03.25/WANG&MA - working - 18.03.25.nt

EXAMPLES OF GOOD HILLSIDE PRACTICE



EXAMPLES OF POOR HILLSIDE PRACTICE

