

# GREENHILL PARK RESIDENTIAL SUBDIVISION STAGE 15

# INFRASTRUCTURE DEVELOPMENT COMPLETION REPORT

POPHAM ROAD, GREENHILL PARK

**CHEDWORTH PROPERTIES LTD** 

Our reference: 19-30378-01

Prepared for Chedworth Properties Limited





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| REVISION     | Issued for Application | <b>DATE</b> 14 April 2021 |
|--------------|------------------------|---------------------------|
| Quality Assu | rance Statement        |                           |
| Task         | Responsibility         | Signature/Approval        |
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Our Ref: 19-30378-01

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Reference: 30378

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#### 1.0 BACKGROUND

#### 1.1 Introduction

This application relates to Greenhill Park Subdivision Stage 15 located alongside Webb Drive, south of Pardoa Boulevard.

Works included the following:

- Stage 15 subdivision roading (including Gosset Avenue and Couldsack Ave)
- Wastewater reticulation and lot connections
- Stormwater reticulation for roading and lot connections
- Watermain and lot connections
- Associated Streetlights
- Electrical reticulation for subdivision lots and street lighting
- Ultrafast Broadband reticulation
- Gas supply for subdivision development
- Concrete footpath construction
- Landscape planting

On the west side of Webb Drive, Stage 15 development works for 27 residential lots have been carried out under Hamilton City Council Subdivision Resource Consent 011.2018.6632, granted 05 September 2018.

This application is made on behalf of Chedworth Properties Ltd for Works Clearance from Hamilton City Council. Works clearance is sought in order to obtain certification pursuant to Section 224(c) of the Resource Management Act 1991 for Greenhill Park subdivision, Stage 15, LT 560839. A copy of the land transfer plan is included in Appendix 8.

This report addresses the key details associated with the Infrastructure provided.

#### 1.2 Entities Involved with Development

The following companies have been involved with the construction of the Subdivision;

Developer: Chedworth Properties Ltd

Consultant Design Engineers: Beca Consultants

Consultant Engineers and Surveyors: S&L

Geotech Engineer
 Landscape Design
 Landscape Planting
 DBCon Engineers
 Boffa Miskell
 Native Awa

Head Contractor: Online Contractors 2016 Ltd (OLC)

• Subcontractors & Suppliers:

Civil Materials Supply Hynds

Stormwater and Wastewater West Construction Ltd (WC)

Drainage



Geotechnical Testing Opus/WSP

Concrete Supply

Concrete kerbs

Bowers Bros Concrete

Waikato Construction

Carparks Purrfect Paving Footpaths Purrfect Paving

Concrete Cutting Ironman Concrete Cutting

Streetlights Ibex Lighting

Power Reticulation WEL Networks – (Subcontractors:

Northpower and Bayonne)

Road Materials Supplier Stevenson Resources, Gleeson

Quarry – Huntly

Road Surfacing Contractor Higgins Contractors

Road Signs Directionz Ltd
Road Line Marking Linemark
Gas First Gas

Telecommunication Ultrafast Fibre – (Subcontractor:

Civtec)

#### 1.3 Observation of Works

S&L undertook regular inspections of the works as the project progressed and reviewed the contractor's quality assurance measures including test results. The progress of the construction was reviewed formally at weekly site meetings as well as discussions on site with the contractor.

The observation and supervision activities by S&L were undertaken to a level of CM3 (weekly site visits) as described in the IPENZ document "Guidelines on the Briefing and Engagement of Consulting Engineering Services" with additional inspections when required by the nature of the works under construction.

#### 1.4 As-Built Data

A full set of as-built drawings and excel spreadsheets have been appended to this document in Appendix 9 and 10. These include the as built and asset value information required in accordance with the RITS. The as built data has also been included in this application in electronic format and a copy enclosed in final works clearance report for reference.

#### 1.5 **CCTV**

CCTV inspections have been completed for the wastewater and stormwater lines. The footage has been provided to Hamilton City Council separately.

# 1.6 Design and Hamilton City Council Development Unit Design Acceptance

The following Approvals have been gained from the HCC Development Unit:



 Greenhill Park Stage 15 was designed by Beca Consultants and approved by HCC Development Unit.

# 1.7 Amendments to approved plans

Amendments from the approved plans have been made during construction as follows:

- Pavement type C Local Access Road/Lane, changed to one 200mm thick layer of GAP40 on 500mm of Blue Brown Rock CBR> 15. Refer to email confirmation included in completion report for Stage 12
- Kerbing changes made removing flush kerbs and footpaths. Refer to email confirmation included in completion report for Stage 12

#### 2.0 EARTHWORKS

Earthworks have been carried out onsite under the supervision of S&L and DBCon Engineers. DBCon Engineers were engaged as the geotechnical engineer. The DBCon report of stage 15 subdivision earthworks and recommendations for building development is included in Appendix 1, detailing earthworks compliance with HCC RITS and NZ Standards.

## 3.0 ROADING INFRASTRUCTURE

#### 3.1 Road Construction

Roads have been constructed in general accordance with the pavement shown on the approved engineering plans, except where the pavement has been changed as discussed in section 1.7 above.

Review of the road construction is as follows:

### 3.2 Subgrade

The underlying natural soils comprise sandy silts of varying strengths. Significant subgrade improvement works have been carried out as follows:

- Much of the Stage 15 subgrade consists of imported hardfill for the backfill of the stormwater and sanitary sewer underground lines beneath.
- All areas in the road carriageway that have not been backfilled with hard brown rock have been undercut to a minimum depth of 0.5m below subgrade level and replaced with a subgrade improvement layer of compacted hard blue brown rock.
- Subsoil drains have been laid beneath kerbs discharging into catchpits



Testing of the subgrade improvement layer included proof rolling with no visible weave, stringing by way of GPS survey, and Clegg hammer testing to confirm that a CIV>15 (CBR>15) had been achieved for all roads in Stage 15. Results of the Clegg hammer testing are included in Appendix 2(a).

A GPS survey was undertaken throughout Stage 15 and checked against the design surface. Results are included in Appendix 2(a), confirming that design pavements depths have generally been achieved to ITS tolerances.

All road subgrades have been tested using clegg hammers, showing that CBR values over 15 have been consistently achieved on all roads. The results from the Subgrade Clegg Hammer testing are summarised below:

# **Subgrade Clegg Hammer Results Summary**

| Road 22 CH 160 - 260 | Range CIV 42 - 49 | Min Inferred CBR 123* |
|----------------------|-------------------|-----------------------|
|                      | Mean CIV 49       |                       |
| Road 37 CH 280 - 340 | Range CIV 42 - 58 | Min Inferred CBR 123* |
|                      | Mean CIV 49       |                       |
| Road 38 CH 130 - 200 | Range CIV 42 - 56 | Min Inferred CBR 123* |
|                      | Mean CIV 50       |                       |

<sup>\*</sup>Note: CBR = 0.07(CIV)<sup>2</sup> formula applied in accordance with RITS

#### 3.3 Subbase

The subbase of roads with pavement type C have been incorporated into the basecourse layer. Construction and testing methods for these roads are covered in the basecourse section below.

#### 3.4 Basecourse

Subdivision roading comprises of the following basecourse types:

| Road 22, 37 and 38 (Couldsack | 200mm GAP40 basecourse – |
|-------------------------------|--------------------------|
| Avenue and Gosset Avenue)     | Stevensons Tauhei        |

QA Supplied for the basecourse included in Appendix 2(b) includes the following:

- Material testing sheets
- Stringing
- Compaction testing of the basecourse with Nuclear Densometer
- Clegg Hammer tests
- Benkelman Beam testing



#### Stringing

Stringing of the basecourse was carried out from kerbs prior to sealing. Results are included in Appendix 2(b) confirming that design pavements depths have generally been achieved to ITS tolerances.

# Clegg Hammer

Clegg hammer testing has been undertaken on the subdivision roading basecourse showing compliance with RITS.

#### Nuclear Densometer

Nuclear densometer testing was carried out by Opus in order to confirm density.

Nuclear Densometer testing has been undertaken in accordance with RITS Section 3.8.2.5 & 3.8.3.4, Table 3-22. Results are included in Appendix 2(b).

The Target MDD for the GAP40 pavement is 2.22t/m3 as per Opus MDD report (project number: 2-68015.00, lab reference: HA 6289/2\_VHMDD).

Results are summarised below:

## **Basecourse NDM Results Summary**

| Road 22 CH 160 - 260 | Min 97% of MDD<br>(Target MDD 2.22t/m3) | Mean 98% of MDD |
|----------------------|---|-----------------|
| Road 37 CH 280 - 340 | Min 96% of MDD<br>(Target MDD 2.22t/m3) | Mean 98% of MDD |
| Road 38 CH 130 - 200 | Min 97% of MDD<br>(Target MDD 2.22t/m3) | Mean 98% of MDD |

## 3.5 Benkelman Beam Results

Benkelman beam tests were carried out by Opus on the basecourse surface following surfacing. Results are summarised below:



# **Basecourse Benkelman Beam Results Summary**

|                      | Deflection (mm) |                 |                               |                 |  |  |  |  |  |
|----------------------|-----------------|-----------------|-------------------------------|-----------------|--|--|--|--|--|
|                      | Maximum<br>(mm) | Minimum<br>(mm) | %age<br>over<br>1.8mm<br>(A2) | Average<br>(mm) |  |  |  |  |  |
| Road 22 CH 160 - 260 | 1.10            | 0.60            | 0                             | 0.89            |  |  |  |  |  |
| Road 37 CH 280 - 340 | 1.14            | 0.68            | 0                             | 0.87            |  |  |  |  |  |
| Road 38 CH 130 - 200 | 0.86            | 0.36            | 0                             | 0.63            |  |  |  |  |  |

Results conform to the maximum and average deflection requirements of Section 3.8.3.5, Table 3-23 of the RITS for A2 (up to  $10^5$  EDA) roads.

# 3.6 Road Surfacing

A summary of road surfacing details laid by Higgins is listed below:

# **Road Surfacing Summary**

| Road            | Membrane Seal                      | Surface  |
|-----------------|------------------------------------|----------|
| Pavement Type C | Grade 4 single coat water proofing | 30mm DG7 |
|                 | membrane.                          |          |
|                 | Residual Application Rate: 1.0L/m² |          |
|                 |                                    |          |

## 4.0 WATER INFRASTRUCTURE

#### 4.1 Installation

The water supply reticulation completed by Online Contractors includes the following components:

- 150mm mPVC PN12RRJ principal main
- 63mm PE80 PN12.5 ridermain
- Associated fittings, valves and hydrants
- Residential connections to all lots

Quantities and installation locations are shown on as-built records appended to this document.



# 4.2 Testing and Disinfection

Online Contractors Ltd carried out all aspects of pressure testing of the supply lines and disinfection prior to livening, in accordance with the ITS and in the presence of HCC.

Testing included the following items:

- Water supply pressure test result
- Water Supply disinfection
- Water Supply E Coli test

The pressure test and the observation of FAC (Free Available Chlorine) was witnessed by HCC's testing officer. The E Coli test samples were collected as part of the testing and the samples have been reviewed by HCC Officer, L. Parkes and passed.

Pressure testing results, pipe laying checklists and Bacto Test results are included in Appendix 3.

#### 5.0 WASTEWATER INFRASTRUCTURE

Supporting quality assurance documentation for Wastewater Infrastructure supplied by the contractor and reviewed by S&L is attached in Appendix 4.

The gravity sewerage system comprises installation of the following components:

- 150mm dia uPVC SN16 wastewater main
- 100mm dia uPVC SN16 sewer laterals and lot connections
- Associated manholes.

Testing and inspection includes the following:

- CCTV inspection which has been supplied separately to Council
- Inspection of Manhole Structures
- Pressure testing of Manhole Structures by West Construction observed by HCC
- Pressure testing of 150mm dia wastewater main by West Construction observed by HCC
- As-builting by West Construction and S&L with final as-builts compiled by S&L.

#### 6.0 STORMWATER INFRASTRUCTURE

#### 6.1 Installation

In accordance with the approved design, stormwater from Stage 15 discharges into the Area M swales for treatment and conveyance:

• Swale 3B is located on the south side of Popham Rd and flows west.



The primary system comprises of:

- UPVC & RCRRJ stormwater mains and headwalls
- UPVC laterals and lot connections
- Road catchpits and leads
- Manholes

Observation of the works was undertaken by S&L and includes:

- CCTV inspection which has been supplied separately to Council
- Inspection of all manhole structures, catch pits, outlets and inlets
- As-builting by Online Contractors and S&L Consultants with final as-builts compiled by S&L.

QA and checklists provided by the contractor and reviewed by S&L are included in Appendix 5.

## 6.2 Secondary flow paths

In accordance with the approved design, the stormwater from Stage 15 discharges into swale 3B for treatment and conveyance.

A piped drainage network has been designed to collect runoff from the road and lots with standard sumps. The pipes are designed to convey (without significant surcharge) the 50% AEP flows to the network of swales downstream. Each individual lot is provided with a piped connection to the main drainage system in case on-lot soakage is not appropriate.

In events larger than a 50% AEP, secondary stormwater flows for Stage 15 will flow down the road shoulders to a low point at the road 38/39 intersection and flow north across the overland flow path (lot 507), then spill into Swale 3B that runs along the southern side of Popham Road and flows west.

See attached as-built drawings 21879-M-15-R1 and 21879-M-15-SW1 in appendix 9 showing the location and direction of stormwater overland flow.

# 7.0 STREET LIGHTING, STREET MARKING AND SIGNAGE

Streetlights have been designed, supplied and installed by Ibex Lighting Ltd. All quality assurance documentation for the street lights is included in Appendix 7.

Signage has been installed by OLC subcontractor Directionz Ltd in accordance with approved drawings and RITS requirements.



Carriageway paint marking has been completed by OLC subcontractor Linemark Ltd and is in accordance with approved drawings and RITS requirements.

## 8.0 LANDSCAPING

## 8.1 Hard Landscaping

There are no hard landscaping works included in stage 15.

## 8.2 Soft Landscaping

The landscape planting within the road reserves and the stormwater swales has been completed. An inspection by HCC Parks and Open Spaces has been completed.

#### 9.0 NETWORK UTILITIES

Network utilities have been provided as follows.

#### 9.1 Power

Electrical reticulation has been installed by WEL Networks for both street lighting and residential supply.

A WEL Networks works clearance statement is attached in Appendix 7.

#### 9.2 Gas

First Gas has installed reticulation to enable future connection by individual lot owners. A completion Certificate is included in Appendix 7.

#### 9.3 Telecommunications

Ultrafast Fibre has installed reticulation to individual lots. An acceptance letter is included in Appendix 7.

#### 10.0 FINAL INSPECTION

A final inspection has been undertaken and was attended by Hamilton City Council's Development Engineers and associated staff from S&L and Online Contractors.

A separate inspection by Parks and Open Spaces has also been completed.



# **APPENDIX 1**

Reference: 30378

# **Earthworks QA Documentation**

 DBCon Engineers Report on Subdivision Earthworks & Recommendations for Building Development



# **GREENHILL PARK RESIDENTIAL SUBDIVISION**

STAGE 15 Area M, Greenhill Park

# **HAMILTON**

REPORT ON SUBDIVISION EARTHWORKS
AND RECOMMENDATIONS FOR BUILDING
DEVELOPMENT

Our Ref: DB 171738-AREA-M-S15-01

Prepared for: Chedworth Properties Limited

Date: 19<sup>th</sup> April 2021

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# 1.0 Subdivision Development Earthworks

#### 1.1 Introduction

Stage 15 of Greenhill Park is currently accessed from Pardoa Boulevard. Stage 15 comprises 27 residential lots (numbered 407 to 433). The locations of these lots are shown on attached *Cut/Fill Plan*, drawing 21879-01-M15-EW1 included in Appendix I.

Bulk earthworks have been completed to re-contour the previously agricultural landscape for Stage 15 of the Greenhill Park Residential Subdivision in Hamilton. Works have been carried out in accordance with Hamilton City Council's (HCC) Subdivision Resource Consent: **011.2018.6632.001** dated: 05/09/2018. Prior to commencement of earthworks, geotechnical investigations were carried out by Beca Ltd (Beca) in 2016 [1].

HCC's Infrastructure Technical Specifications (ITS) set out the minimum standards for design and construction of public infrastructure within Hamilton City. Section 2.1.5 of the *Earthworks and Geotechnical Requirements* of the ITS states that the developer shall appoint a geo-professional to carry out functions as described in NZS 4404[5] Section 2.2.4. ITS Section 2.3.3.1 states that a geotechnical completion report shall be submitted as per NZS 4404 Section 2.6 including a statement of professional opinion on the suitability of land for building construction [4]. The developer has appointed DB Consulting Engineers (DBCE) Ltd as the geo-professional.

To satisfy the requirements of HCC's Resource Consent, the ITS and NZS 4404, this report summarizes the observations and testing undertaken during the development of the stage, discusses the suitability of the ground for the support of the proposed residential buildings and contains recommendations for the disposal of stormwater runoff generated on individual sites.

Included in Appendix I of this report is the proposed subdivision plan comprising the original Lot 605 DP 516275 and the proposed new lots 407-433 for Area M Stage 15. The included earthworks plan shows the cut/fill extent of the earthworks undertaken, test positions, and road and lot locations.

# 1.2 Earthworks in the Subdivision

The earthworks for stage 15 of the subdivision development were undertaken between February 2020 and October 2020.

These earthworks comprised

- 1. The stripping of surface topsoil to expose underlying natural soils
- 2. The placement of filling within Lots 407 to Lots 433
- 3. Backfilling and raising the ground level with new fill to create uniform fill platforms.
- 4. The reinstatement of the surface topsoil cover and subsequent grassing.

The soils encountered during the formation of the site and road subgrades were a mixture of silts, sands and pumiceous gravels, typical of Hinuera formation deposits in this area of Hamilton. These soils were those that had been identified in pre-construction site investigations by the Beca Report. The published geology indicates that Area M soils comprise Hinuera Formation alluvium at surface with Walton Subgroup overlain by Hamilton Ash in the gently sloping hill to the south of Area M.

The filling work was undertaken using these site soils gained from areas of cut on other stages from within the larger Greenhill Subdivision. Filling was undertaken during summer 2020 when drying back of the soils was possible to close to optimum moisture contents to achieve near maximum compaction densities. The sandy alluvial soils are expected to be free draining and is suitable for re-compaction with little or no moisture conditioning needed.

Upon completion of the earthworks, approximately 200 to 300 mm of topsoil was placed across the sites and the finished surfaces were grassed in accordance with Conditions of the Resource Consent. Areas where an initial grass strike did not take place were re-grassed. While the target topsoil depths after the earthworks were to be around 300 mm, no guarantee is implied or given that the topsoil on any part of any lot is 300 mm or less and it is recommended that future owners or designers or builders check topsoil depths when preparing site development plans and cost schedules.

#### 1.3 Earthworks Standards

The earthworks in filling were undertaken using in situ Silty clay, silts mixtures gained from areas of cut across the larger subdivision and already used for the earlier stages of the development. The standards for the placement of filling, as stated in the earthworks contract documents, were to comply with NZS 4431:1989 "Code of Practice for Earth fill for Residential Development" and the Council ITS. Filling placed to these standards may be considered as good ground in terms of NZS 3604:2011 "Timber Framed Structures."

The compaction of the filling placed was monitored and tested for compaction density using a hand-held shear vane in finer grained silts and Silty CLAY. Adequate strengths would be achieved when an undrained shear strength of 100 kPa or more had been developed in silts and clays. And scala penetrometer in granular soils.

Materials used where the same basic strata as being used for the previous Stages of works, with a high level of consistency based on previous test results.

#### 1.4 Filled Ground

During the placement of filling on the road subgrades and on areas intended for residential development, the contractor, OLC, stripped and removed all topsoil and other surface organic soils. Post construction testing was carried out to confirm the interface between the cut and fill. Filling was placed in discrete layers with compaction applied through sheepsfoot drum rollers and smooth drum rollers.

As most of the filling placed comprised the Silty SAND and Sandy SILT identified in the pre subdivision boreholes, testing of the compaction achieved was mostly undertaken with a handheld shear vane and NDM testing (Nuclear Density Meter).

The results indicate that the construction filling standards have been met. Foundations may therefore be detailed to NZS 3604:2011 where a timber framed subfloor containing shallow piles, bearers and joists is contemplated. Concrete floors designed to NZS3604 can be used on most lots where they are not immediately adjacent to a stormwater swale.

#### 1.5 Areas of Cut

Areas developed in cut are shown on 21879-01-M15-EW1 (Appendix I). Only four lots from Lot 426 to 429 is having cut around 0.4m to 1.5m. In these areas, the ground at formation levels was observed to comprise the same silts and sands that had been used for filling elsewhere and as identified by pre subdivision tests.

## 1.6 Test Results in Filling Placed

A summary of the tests undertaken by DBCE is present in Appendix IV. The test positions are shown on 21879-01-M15-EW1 and the test results are in Appendix IV.

The shear vane and scala penetrometer test results show that acceptable soil strengths had been developed in all fill areas tested.

#### 1.7 Test Results in Areas of Cut and Natural Ground

Only for Lot 426 to Lot 429 there is cut performed around 0.5m to 1.5m. The natural ground at the finished ground surface or under the filling comprised silty sands and sands as had been identified in the pre-subdivision investigation boreholes.

The results of the tests undertaken indicate that "good ground" as defined in NZS3604:2011 is present. No areas that were tested will require any future ground improvement work for buildings supported

#### 1.8 Land Hazards

#### 1.8.1 Land Stability

There are no landform stability issues within Stage 15 of the Greenhill Park Subdivision. The specification from the developer for the site earthworks was that the lots were to be graded as flat as possible with a desirable gradient of 0.5%.

# 1.8.2 Flooding

The final lot levels have been set based on infrastructure requirements and freeboard from flood levels developed as part of the stormwater design for the larger subdivision. The means of disposal of stormwater runoff from lots in this stage of the subdivision are described in the catchment and overland flow assessments by Beca (interpretive Report Lot Levels Area M). In the report for area M, a 1% AEP flood event is identified for each swale system. The three relevant swales for Stage 15 are Swale 1D, 3B and 3A (R.L. 38.46 1% Flood level). A flood level of 38.00 R.L. Stage 15, Greenhill Park, Hamilton Subdivision Completion Report Job No: DB 171738-AREA-M-

has been used in assessing the flood risk in stage 15. This equates to minimum lot levels of 38.925m to 40.020m R.L. across the stage (with low being the west end and high being the east end). A list of Lot Levels for Stage 15 is included in Appendix V.

Site grading during house construction must not lower finished levels below the minimum finished ground levels identified by Beca without further review of the impacts on flooding. Earthworks must not direct stormwater runoff to adjacent properties, or towards buildings, or create areas of localized ponding. All overland flow is to be towards the road frontage on each section, where falls will direct surface flow towards the Swale 1D and Swale 3B.

It is the responsibility of the building design professional to ensure that the requirements for mitigation for the hazard of flooding are met by the design prior to submitting to Council for consent. Confirmation of the swale construction and flood levels are excluded from the scope of this report and are to be covered separately with sign-off of infrastructure works.

### 1.8.3 Liquefaction

The potential for the hazard of liquefaction for Area M of the Greenhill Park Subdivision is discussed in "Greenhill Park Geotechnical Interpretation and Design - Area M" by Beca and dated 13 July 2018. Foundations within 5m of the top of the swales are classed as TC2 like foundations. The liquefaction summary plan is appended to this Completion report. Specifically, the requirements are:

- 0m 1.5m no habitable dwellings to be built within 1.5 m of the swale crest.
- 1.5 5m adopt an enhanced TC2 like foundation
- Beyond 5m of swale crest no specific requirements to mitigate liquefaction effects.

The Beca report refers to zones adjacent to the swales being in a TC2 type area as is defined in guidelines published by the Ministry of Business, Innovation and Employment (MBIE). MBIE recommends that TC2 type foundations should typically include 'an enhanced foundation slab' as is currently being installed for new houses in Christchurch. Alternatively, MBIE advises that houses may be supported on timber piles and a timber framed subfloor as detailed in NZS 3604 to meet a Type A construction as described in their guidelines. For stage 15 none of the lots are affected by swale so no specific requirements are needed to mitigate liquefaction.

#### 1.8.4 Expansive Soils

The underlying soil conditions are primarily non-expansive sand strata and shallow slightly expansive silt layers. Zones of fill are encountered across the sites, with deeper fill located in all lots except Lot 428 and Lot 429 where fill is maximum of 0.4m. There is backfill of old drainage ditches in Lot 431 and Lot 432. The backfill is typically silty sand and not considered expansive. Overall, Stage 15 is underlain by non or slightly expansive soils. Any soils with a higher expansivity are expected to be limited in extent, and unlikely to result in changing the soil class.

For purpose of foundation recommendations, Lots 407-433 can be treated as M Class sites.

This is indicative of the greater depth of fill under these sites and therefore greater variability in the ground conditions. This is not to say the strata is moderately expansive, but that it may perform with comparable movement.

# 2.0 Disposal of Stormwater

Greenhill Park has been designed with a swale network to limit peak flows from the subdivision to 80 % of the 1 % AEP pre-development rate, and 90 % of the 10 % and 50 % AEP pre-development rates (Beca Ltd. [2016] Greenhill Park - Stormwater Design, for Chedworth Properties Ltd, 29 June 2016). Area M has been designed to include roadside swales flowing in an approximately east to west direction. Stage 15 includes swale 1D and 3B. The depth of the swales has been designed to accommodate the fall and cover depth required of the piped drainage system. The piped drainage network has been designed to convey the 50 % AEP flows from roads and lots to the swale network, with each lot to be provided with a piped service connection. The stormwater plan is presented in the S&L Drawing 'Stormwater as Built DWGs reported separately.

All lots will require on-site stormwater efficiency measures as per the District Plan requirements (Rule 25.13.4.5 Water Efficiency Measures). These include:

- 1. Detention of stormwater to 80% of pre-development runoff by an appropriate means. This has largely been achieved by the swale network for events greater than the 50 % AEP storm. For the 50 % AEP and smaller events, the stormwater efficiency measures are expected to provide sufficient additional mitigation to achieve this requirement.
- 2. Permeable surfaces protected to achieve at least 20% above the minimum standard of the zone (i.e., 40 % site permeability).
  - a. Sites within the Ruakura Medium Density Residential Zone require a minimum permeability of 20 % (Rule 4.6.5) and are limited to 50 % site coverage (Rule 4.6.6).
- 3. Rainwater tank for non-potable reuse system
- 4. Other equivalent features

Stormwater management must ensure that the rate of stormwater discharge offsite is at or below pre-development rates. Stormwater management measures shall be implemented, as appropriate, in accordance with the following drainage hierarchy:

- 1. Retention for reuse
- 2. Soakage techniques
- 3. Detention and gradual release to a watercourse
- 4. Detention and gradual release to stormwater reticulation.

Section 42 of the Subdivision Resource Consent (SRC) relating to Stages 9-15 state that "Each residential lot shall be provided with a means for disposal of stormwater, with no private stormwater pipes or soakage systems crossing from one lot to another except were covered by an easement".

Section 43 of the SRC states that water efficiency measures for the individual residential lots are to be detailed for each subdivision stage. "Where retention for reuse tanks is proposed they shall be a minimum of 5,000L to ensure they are effective or where the lot is less than 300m2 should be appropriately designed considering the specific site constraints. The required stormwater efficiency measure is to be implemented at the building consent stage and maintained on an on-going basis at the owners' expense".

Section 44 of the SRC requires a consent notice on each title advising of the required water efficiency measures to be implemented and maintained on an ongoing basis.

Section 55 of the SRC states the requirement for lot development to be undertaken in general accordance with the recommendations in the report: Greenhill Park Geotechnical Interpretation and Design – Area M, prepared by Beca Ltd., 13 July 2018.

In the Stage 15 development area, each site is to be tested for soakage capability by the property owners. For those sites that have a sufficient soakage capability, disposal of stormwater is to be undertaken onsite using soakage and/or bioretention systems with overflow to the lot stormwater service connection. Those sites that are not soakage viable are to retain stormwater for reuse by way of a Slimline Rain Tank or other similar type water tank. The size of the tank is to be 5000 litres and the tank is to be plumbed into the house for use as a non-potable water supply including for garden irrigation and in general accordance with the HCC guidelines for the Implementation of Water Efficiency Measures. The Slimline rain tank system is described in Appendix V. This requirement will be advised to purchasers and will be implemented through the building consent process by HCC. A consent notice is to be registered on the certificates of titles for each lot which describes these investigation and design requirements.

Details of the required stormwater measures are included in Appendix V, sourced from the Greenhill Park Design Guidelines.

# 3.0 Retaining Walls

There are no retaining walls that were constructed by the developer within stage 15.

# 4.0 Professional Opinion

It has been demonstrated in this Geotechnical Completion Report, that earthworks have been completed and building platforms have been constructed to comply with Council's ITS specifications and the New Zealand Building Code. Recommendations have been provided within the report for the disposal of stormwater from individual lots, for the ongoing development of the lots and for the mitigation of liquefaction risk where applicable.

In accordance with ITS Section 2.3.3.1, a statement of professional opinion is enclosed in Appendix II of this document. This statement is presented in the form of Checklist 2.2 of Council's Development Manual, Volume 4: Quality Systems for Land Development, and is accompanied by a *Summary of Geotechnical Data for Individual Lots* which summarizes the information and recommendations contained in this report.

Stage 15, Greenhill Park, Hamilton Subdivision Completion Report Job No: DB 171738-AREA-M-S15-01

# 5.0 Applicability

Recommendations contained in this document are based on data from observations of site earthworks, boreholes, and test results. Inferences about the nature and continuity of subsoils away from these locations are made but cannot be guaranteed.

In all circumstances, if variations in the subsoils occur which differ from those described or are assumed to exist, the site should be inspected by an engineer suitably qualified to make an informed judgement and provide advice on appropriate improvement measures.

This report has been prepared specifically for Stage 15 as shown for Lots: 407-433, DP543207 of Area M within the Greenhill Park Residential Subdivision. No responsibility is accepted by DB Consulting Engineers Ltd for the use of any part of this report for other development sites without their written approval.

| Report Prepared By: |                    | Date:19 <sup>th</sup> April 2021  |
|---------------------|--------------------|-----------------------------------|
|                     |                    |                                   |
|                     | Ranjan Ghiloria    |                                   |
|                     | Civil Engineer     |                                   |
|                     |                    |                                   |
|                     |                    |                                   |
|                     |                    |                                   |
|                     |                    |                                   |
| Report Reviewed By: |                    | Date: 19 <sup>th</sup> April 2021 |
|                     |                    |                                   |
|                     | Michael Richardson |                                   |
|                     | Senior Engineer    |                                   |

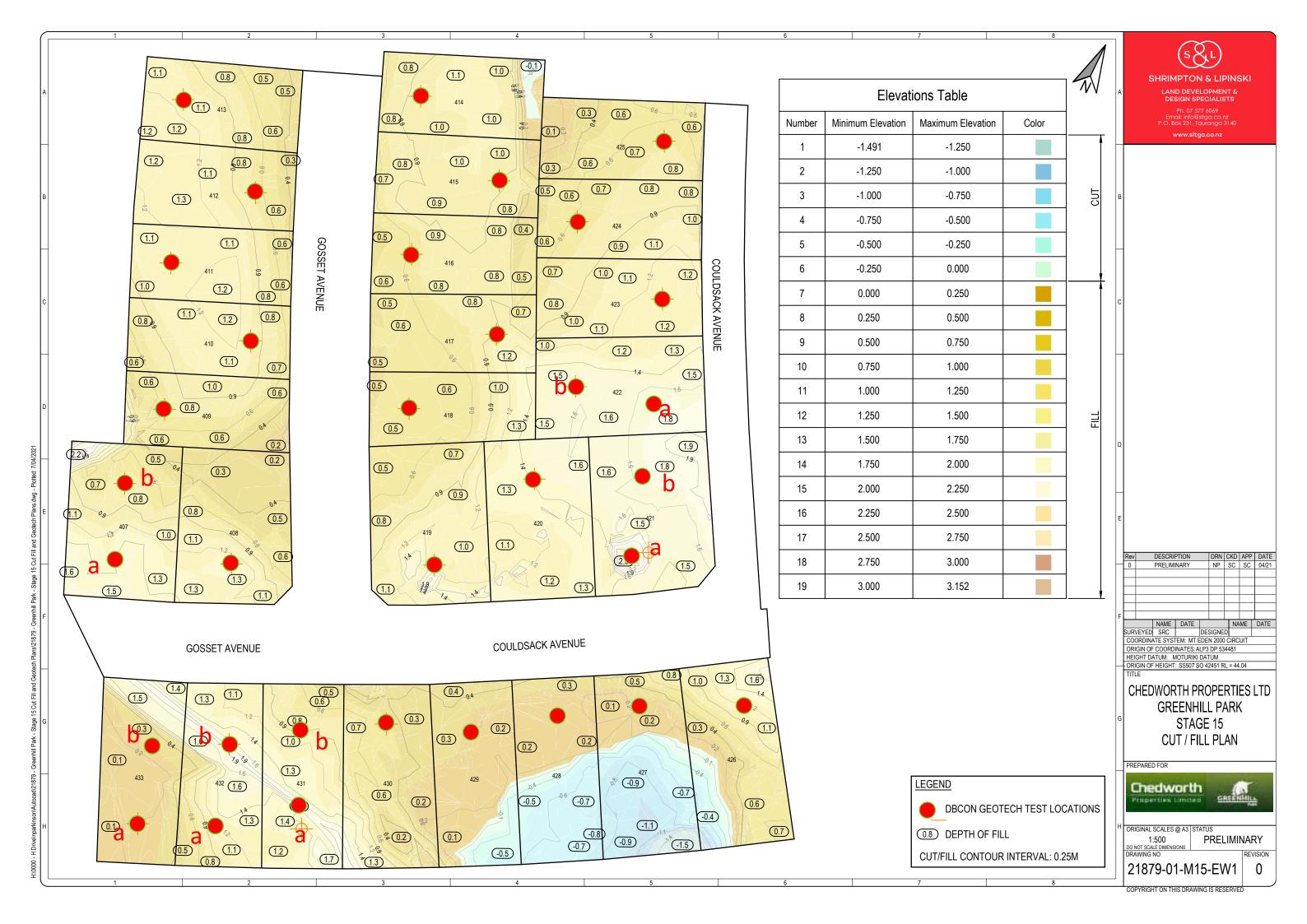
# References

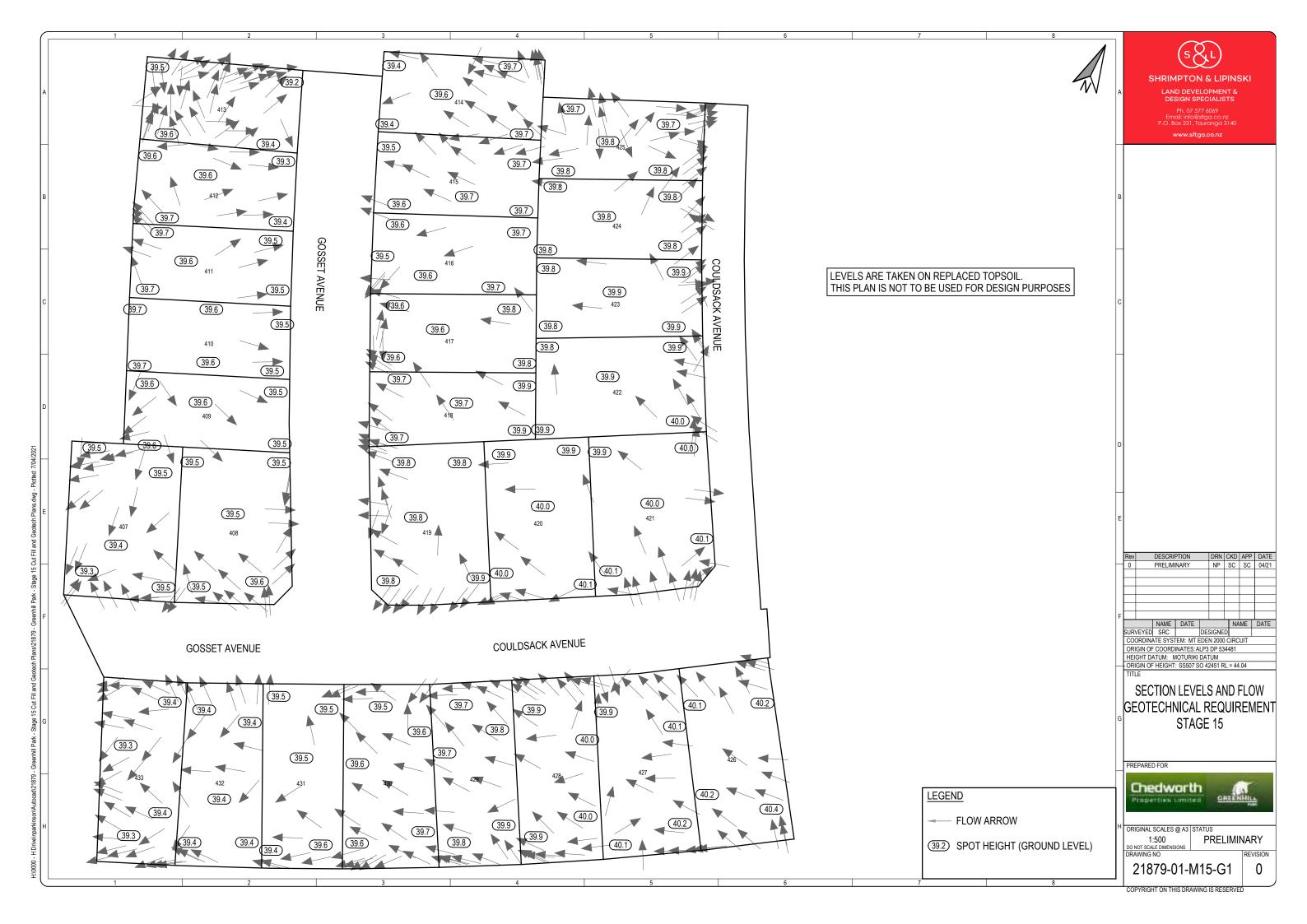
- [1] Ruakura Land Development LDP Geotechnical Factual Report by Beca, 15 April 2016.
- [2] C. Hughes and K. Read, "Ruakura Development Stage 1 Geotechnical Investigation Liquefaction Potential Detailed Assessment," Opus International Consultants, Ltd., Hamilton, New Zealand, 2014.
- [3] M. Hughes and L. Shuler, "Report on Preliminary Geotechnical Investigation, Ruakura Development, Hamilton," S&L Consultants, Ltd., Tauranga, New Zealand, 2015.
- [4] "Section 2 Earthworks and Geotechnical Requirements," in *Infrastructure Technical Specifications*, Hamilton, New Zealand, Hamilton City Council, 2013.
- [5] "NZS 4404 Land Development and Subdivision Infrastructure," in *New Zealand Standards*, Wellington, New Zealand, Standards New Zealand, 2010.
- [6] "Greenhill Park Geotechnical Interpretation and Design-Area 1" by Beca 28 October 2016.
- [7] "Part 5: Earthquake Actions New Zealand," in NZS 1170.5:2004 Structural Design Actions, Standards New Zealand, 2004.
- [8] "Greenhill Park Design Report Area I (Stage 5, 6, 7 & 8) by Beca 20 December 2016
- [9] "Clause B1: Structure," in *Acceptable Solutions and Verification Methods For New Zealand Building Code*, Wellington, Ministry of Business, Innovation and Employment, 2014.
- [10] "Part A: Technical Guidance," in *Repairing and rebuilding houses affected by the Canterbury earthquakes*, Wellington, Ministry of Business, Innovation and Employment, 2012.
- [11] "Clause E1: Surface Water," in *Acceptable Solutions and Verification Methods For New Zealand Building Code*, Wellington, Ministry of Business, Innovation and Employment, 2014.
- [12] "Section 4 Stormwater," in *Infrastructure Technical Specifications*, Hamilton, New Zealand, Hamilton City Council, 2015.

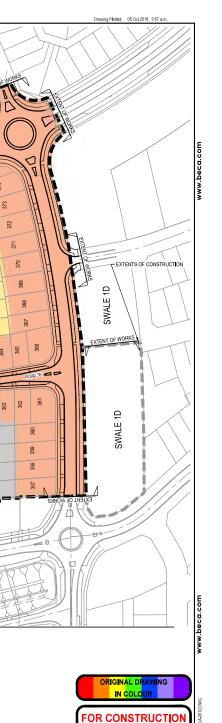
Appendix I <u>Reference Drawings</u> Subdivision Plan

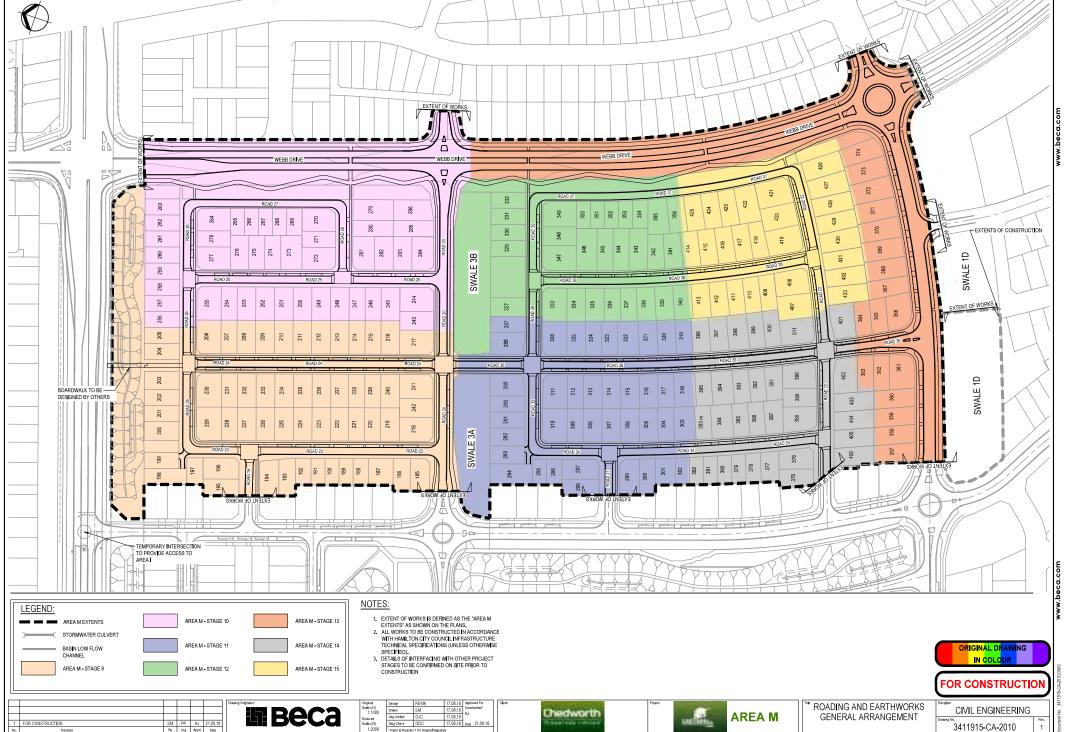
Cut/Fill Plan 21879-01-M15-EW1

Site Levels Plan









# Appendix II Geotechnical Completion Forms

Checklist 2.2 - Statement of Professional Opinion Summary of Geotechnical Data for Individual Lots Summary of Geotechnical Data for individual Lots

NZS 4404: 2010 SCHEDULE2A (Checklist 2.2)

#### STATEMENT OF PROFESSIONAL OPINION AS TO SUITABILITY OF LAND FOR BUILDING CONSTRUCTION

**Development:** Greenhill Park Stage 15 **Developer:** Chedworth Properties Limited

At Pardoa Boulevard, Chartwell, Hamilton

I, Michael Richardson of DB Consulting Engineers, PO Box 1123, Taupo

#### Hereby confirm that:

- 1.0 I am a geo-professional as defined in clause 1.2.2 of NZS 4404:2010 and was retained by the developer as the geo- professional on the above development.
- 2.0 The extent of my inspections during construction, and the results of all tests carried out are described in my geotechnical completion report for Greenhill Park Area M Stage 15 dated 19 April 2021 (reference 171738-AREA-M-S15-01)
- 3.0 In my professional opinion, not to be construed as a guarantee, I consider that:
  - a. The completed works give due regard to land slope and foundation stability considerations.
  - b. The site ground affected by engineered certified filling is suitable for the erection there on of buildings designed according to the report recommendations provided that:
    - i. Lots 407-433 are subject to the recommendations in the summary for individual lots and specific design as required to address variable ground. An M Class Waffle slab or similar is expected as an appropriate foundation type for sites requiring specific design.
    - ii. All lots are subject to an engineering inspection during foundation excavations unless of further soils testing is carried out for building consent. Previous stages have not required further soils testing, but Council requirements are for a minimum 4 soils tests per lots to be carried out for building consent. We recommend construction supervision from an engineer should be carried out to confirm the shallow ground conditions are in accordance with this report and suitable for NZS3604 foundations for bearing strength.
- 4.0 This professional opinion is furnished to Hamilton City Council and the developer for their purposes alone on the express condition that it will not be relied upon by any other person and does not remove the necessity for the normal inspection of foundation conditions at the time of erection of any dwelling.
- 5.0 This certificate shall be read in conjunction with my geotechnical completion report referred to in clause 2 above and shall not be copied or reproduced except in conjunction with the full geotechnical completion report.

| Signed |   | Date: 21 April 2021 |
|--------|---|---------------------|
|        | Michael Richardson                                    |                     |
|        | <b>Chartered Professional Engineer (Geotechnical)</b> |                     |
|        | CPEng 1005467   |                     |

# **Summary of Geotechnical Data for Individual Lots**

| DP No      | o: TBC       | Pro    | perty | / Address            |                                   |      |                              | Greenhill Par   | k, Stage           | 15, Ha                       | mil                 | ton            |                 |                                 |                              |                    |                              |                | RC No: 11/2018, | /6632 |
|------------|--------------|--------|-------|----------------------|-----------------------------------|------|------------------------------|---|--------------------|------------------------------|---------------------|----------------|-----------------|---------------------------------|------------------------------|--------------------|------------------------------|----------------|-----------------|-------|
|            |              |        |       | Subsurfa             | ace Data                          |      |                              | Foundatio   | ns                 | В                            | S                   |                |                 | D                               | _                            |                    |                              |                |                 |       |
|            |              | Shear  |       | odivision<br>Filling | Natural<br>Topography<br>Unworked | Торо | atural<br>ography<br>nworked | Conventional<br>Shallow<br>Foundation to<br>NZS 3604:2011 | Specific<br>Design | Building Restriction<br>Line | S/W Specific Design | S/W Soakage    | S/W Reticulated | Designated Building<br>Platform | Minimum Building<br>Platform | Compressible Soils | On-site Effluent<br>Disposal | Consent Notice |                 |       |
| Lot<br>No: | Area<br>(m²) |        | Y/N   | Depth<br>(m)         | Y/N                               | Y/N  | Depth<br>(mm)                | Y/N/Ribraft   | Y/N/NA             | ction                        | esign               | ge .           | ted             | ilding                          | ding                         | Soils              | ent                          | ice            | Comment         |       |
| 407        | 460          | Note 1 | Υ     | 0.5-2.2 <sup>2</sup> | N                                 | Υ    | 200 <sup>2</sup>             | N   | Υ                  | N                            | Υ                   | Y <sup>4</sup> | N               | N                               | N                            | N                  | N                            | Υ              |                 |       |
| 408        | 460          | Note 1 | Υ     | $0.2 - 1.3^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   | Y <sup>4</sup> | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 409        | 320          | Note 1 | Υ     | $0.2 - 1.0^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Y- Ribraft  | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 410        | 315          | Note 1 | Υ     | $0.6 - 1.2^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Y - Ribraft   | N                  | N                            | Υ                   | Y <sup>4</sup> | Ν               | Ν                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 411        | 320          | Note 1 | Υ     | $0.6 - 1.2^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Y - Ribraft   | N                  | N                            | Υ                   | Y <sup>4</sup> | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 412        | 349          | Note 1 | Υ     | $0.3 - 1.3^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | Ν                            | Υ                   | Y <sup>4</sup> | Ν               | Ν                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 413        | 349          | Note 1 | Υ     | $0.5 - 1.2^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | Ν                            | Υ                   |                | Ν               | Ν                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 414        | 349          | Note 1 | Υ     | $0.8 - 1.1^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Y - Ribraft   | N                  | N                            | Υ                   | $Y^4$          | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 415        | 349          | Note 1 | Υ     | $0.7 - 1.0^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | Ν                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 416        | 349          | Note 1 | Υ     | $0.4 - 0.9^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 417        | 348          | Note 1 | Υ     | $0.5 - 1.2^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 418        | 315          | Note 1 | Υ     | $0.5 - 1.3^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   | Y <sup>4</sup> | Ν               | Ν                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 419        | 500          | Note 1 | Υ     | $0.5 - 1.1^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | Ν                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 420        | 450          | Note 1 | Υ     | 1.1-1.6 <sup>2</sup> | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | Ν                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 421        | 500          | Note 1 | Υ     | $1.5-2.5^2$          | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 422        | 445          | Note 1 | Υ     | $1.0 - 1.8^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 423        | 345          | Note 1 | Υ     | $0.7 - 1.2^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 424        | 349          | Note 1 | Υ     | $0.5 - 1.1^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 425        | 345          | Note 1 | Υ     | $0.1-0.8^2$          | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 426        | 450          | Note 1 | Υ     | $0.3-1.6^2$          | N                                 | Υ    | 200 <sup>2</sup>             | Y - Ribraft   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 427        | 450          | Note 1 | Υ     | $0.1-0.8^2$          | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 428        | 405          | Note 1 | Υ     | $0.2 - 0.3^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 429        | 405          | Note 1 | Υ     | $0.1-0.4^2$          | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   |                | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 430        | 450          | Note 1 | Υ     | $0.2 - 1.3^2$        | N                                 | Υ    | 200 <sup>2</sup>             | Y - Ribraft   | N                  | N                            | Υ                   |                |                 | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 431        | 400          | Note 1 | Υ     | $0.5-1.9^2$          | N                                 | Υ    | 200 <sup>2</sup>             | Y - Ribraft   | N                  | N                            | Υ                   |                |                 | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 432        | 400          | Note 1 | Υ     | $0.5 - 1.6^2$        | N                                 | Υ    | 200 <sup>2</sup>             | N   | Υ                  | N                            | Υ                   |                |                 | N                               | N                            | Ν                  | N                            | Υ              |                 |       |
| 433        | 433          | Note 1 | Υ     | $0.1-1.5^2$          | N                                 | Υ    | 200 <sup>2</sup>             | Υ   | N                  | N                            | Υ                   | $Y^4$          | Ν               | N                               | N                            | Ν                  | N                            | Υ              |                 |       |

Job No: DB 171738-AREA-M-S15-01

# **Summary of Geotechnical Data for Individual Lots**

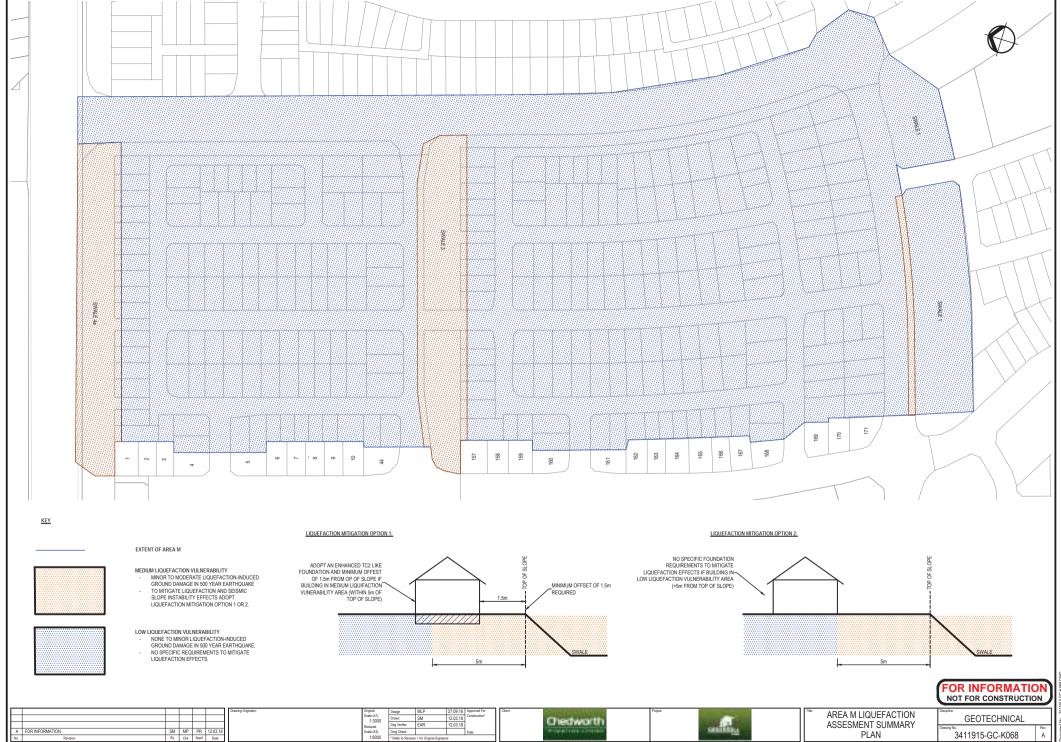
#### NOTES:

- 1) Testing undertaken with Shera vane and Scala.
- 2) This considers approximately 200mm of topsoil removal across all lots prior to subdivision filling.
- 3) Setback required for properties adjacent swales. TC2 type foundation to be adopted within 1.5m-5m from top of slope, no foundations to be constructed <1.5m from top of slope, No specific engineer design required >5m from top of slope
- 4) Soakage testing required on individual lots. Ground soakage and stormwater storage devices required

Appendix III <u>Pre-Construction Assessment (exerts)</u>

BECA Area M Liquefaction Assessment Summary Plan





Appendix IV <u>Post-Construction Test Results</u>

Completion Testing by DCBE Ltd



|     | Project Name                  | Job Ref.     |                      |           |  |
|-----|-------------------------------|--------------|----------------------|-----------|--|
| 100 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |  |
|     | Tested by                     | Date         | Sheet No.            | Test Site |  |
|     | GetGeo                        | 15/04/2021   | 1                    | Lot 407   |  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                              | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 3                        | Good Ground   | FILL, respread topsoil, gravels               |                |
| 200           |                          | 7                        |   |   |                |
| 300           |                          | 3                        |   | medium-dense to dense                         |                |
| 400           |                          | 4                        |   |   |                |
| 500           |                          | 4                        |   | Engineered FILL, silt, sand                   |                |
| 600           |                          | 4                        |   | some angular gravels                          |                |
| 700           |                          | 2                        |   | mixed light-brown, moist                      |                |
| 800           |                          | 2                        |   |   |                |
| 900           | 140 / 23                 | 1                        |   | 900-1000mm minor topsoil                      |                |
| 1000          |                          | 1                        |   |   |                |
| 1100          |                          | 2                        |   | minor silt, minor gravels, orange-brown       |                |
| 1200          |                          | 2                        |   |   |                |
| 1300          |                          | 2                        |   |   |                |
| 1400          |                          | 4                        |   | Sand, silt, gravels                           |                |
| 1500          |                          | 7                        |   | mixed browns, moist to very moist             |                |
| 1600          |                          | 13                       |   |   |                |
| 1700          |                          | 11                       |   |   |                |
| 1800          |                          | 11                       |   |   |                |
| 1900<br>2000  |                          | 12<br>14                 |   | SAND, some gravels, minor pumiceous materials |                |
| 2100          |                          | UTP                      |   | minor silt, grey, moist                       |                |
| 2200          |                          | UIF                      |   | minor siit, grey, moist                       |                |
| 2300          |                          |                          |   |   |                |
| 2400          |                          | UTP                      |   |   |                |
| 2500          |                          | 011                      |   | dark grey-brown                               |                |
| 2600          |                          |                          |   |   |                |
| 2700          |                          | UTP                      |   |   |                |
| 2800          |                          |                          |   | dark grey, very moist                         |                |
| 2900          |                          |                          |   |   |                |
| 3000          |                          |                          |   |   |                |
| 3100          |                          |                          |   | EOB @ 3.0m                                    |                |
| 3200          |                          |                          |   | Target Depth                                  |                |
| 3300          |                          |                          |   |   |                |
| 3400          |                          |                          |   |   |                |
| 3500          |                          |                          |   |   |                |

| Notes: | EOB = End Of Borehole                              | UTP = Unable To Penetrate       | UTE = Unable To Extract |
|--------|--|---------------------------------|-------------------------|
| 1      | Weather leading up to test was recent rain and coo | ol weather. Fine during testing |                         |

- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021

Rev2.8



|        | Project Name                              | Job Ref.   |                      |           |
|--------|---|------------|----------------------|-----------|
| 1 C. 1 | Chedworth Properties, Area M, Stage<br>15 |            | 171738-AREA-M-S15-01 |           |
|        | Tested by                                 | Date       | Sheet No.            | Test Site |
|        | GetGeo                                    | 16/04/2021 | 2                    | Lot 407b  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description   | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 3                        | Good  | FILL, topsoil, gravels                                   |                |
| 200           |                          | 6                        | ground Result   |  |                |
| 300           |                          | 11                       |   | hard   |                |
| 400           |                          | 11                       |   | Engineered FILL, silt, sand, gravel, mixed browns, moist |                |
| 500           |                          | 7                        |   | hand auger to 900mm                                      |                |
| 600           |                          | 6                        |   |  |                |
| 700           |                          | 4                        |   |  |                |
| 800           |                          | 11                       |   | mixed grey-brown and orange-brown                        |                |
| 900           |                          | 7                        |   |  |                |
| 1000          |                          | 7                        |   |  |                |
| 1100          |                          | 8                        |   |  |                |
| 1200          |                          |                          |   | Sandy SILT, light orange-brown, moist                    |                |
| 1300          |                          |                          |   | 01/1 044/D   |                |
| 1400          |                          |                          |   | Silty SAND, orange-brown, moist                          |                |
| 1500          |                          |                          |   | minor fine gravels                                       |                |
| 1600          |                          |                          |   | grey orange-brown  |                |
| 1700          |                          |                          |   | gravelly Sand,minor silt, grey                           |                |
| 1800          |                          |                          |   |  |                |
| 1900          |                          |                          |   |  |                |
| 2000          |                          |                          |   |  |                |
| 2100<br>2200  |                          |                          |   | - deads areas  |                |
| 2300          |                          |                          |   | dark grey  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   | EOB @ 2600mm   |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   | 1  |                |
| 3000          |                          |                          |   | 1  |                |
| 3100          |                          |                          |   | -  |                |
| 3200          |                          |                          |   | 1  |                |
| 3300          |                          |                          |   | 1  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes: | EOB = End Of Borehole U                                | TP = Unable To Penetrate   | UTE = Unable To Extract   |
|--------|--|--|---------------------------|
| 1      | Weather leading up to test was recent rain and cool we | eather. Fine during testing  |                           |
| 2      | Ground water was not encountered during testing        |  |                           |
| 3      | Shear Vane readings are converted readings, as per ca  | alibration Certificate. (Values are  | undrained shear strength) |
|        |  | and the second s |                           |

4 Shear Vane records include Re-moulded values where possible

5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Ī | Project Name                  | Job Ref.             |           |           |
|---|-------------------------------|----------------------|-----------|-----------|
|   | Chedworth Properties, A<br>15 | 171738-AREA-M-S15-01 |           |           |
|   | Tested by                     | Date                 | Sheet No. | Test Site |
|   | GetGeo                        | 15/04/2021           | 3         | Lot 408   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                  | Water<br>Table |
|---------------|--------------------------|--------------------------|---|-----------------------------------|----------------|
| 100           |                          | 1                        | Good  |                                   |                |
| 200           |                          | 1                        | Ground Results  | FILL, topsoil, gravels            |                |
| 300           |                          | 3                        |   |                                   |                |
| 400           |                          | 5                        |   | hard                              |                |
| 500           |                          | 4                        |   |                                   |                |
| 600           | 204+ / -                 | 5                        |   | Engineered FILL, silt, minor sand |                |
| 700           |                          | 6                        |   | dark orange-brown, moist          |                |
| 800           |                          | 6                        | <u> </u>  |                                   |                |
| 900           |                          | 5                        |   | minor topsoil                     |                |
| 1000          |                          | 1                        |   | Sand, silt, minor topsoil         |                |
| 1100          |                          | 2                        |   | mixed grey-brown and dark brown   |                |
| 1200          |                          | 2                        | l V   | loose                             |                |
| 1300          |                          | 3                        |   | minor silt                        |                |
| 1400          |                          | 5                        |   |                                   |                |
| 1500          |                          | 3                        |   | some gravels                      |                |
| 1600          |                          | 7                        |   |                                   |                |
| 1700          |                          | 9                        |   | dense                             |                |
| 1800          |                          | 12                       |   | SAND, some gravels, grey, moist   |                |
| 1900          |                          | 11                       |   |                                   |                |
| 2000          |                          | 11                       |   |                                   |                |
| 2100          |                          |                          |   | EOB @ 2.0m                        |                |
| 2200          |                          |                          |   | Target Depth                      |                |
| 2300          |                          |                          |   |                                   |                |
| 2400          |                          |                          |   |                                   |                |
| 2500          |                          |                          |   |                                   |                |
| 2600          |                          |                          |   |                                   |                |
| 2700          |                          |                          |   |                                   |                |
| 2800          |                          |                          |   |                                   |                |
| 2900          |                          |                          |   |                                   |                |
| 3000          |                          |                          |   |                                   |                |
| 3100          |                          |                          |   |                                   |                |
| 3200          |                          |                          |   |                                   |                |
| 3300          |                          |                          |   |                                   |                |
| 3400          |                          |                          |   |                                   |                |
| 3500          |                          |                          |   |                                   |                |

|  | Notes: | EOB = End Of Borehole | UTP = Unable To Penetrate | UTE = Unable To Extract |
|--|--------|-----------------------|---------------------------|-------------------------|
|--|--------|-----------------------|---------------------------|-------------------------|

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|   | Project Name                  | Job Ref.             |           |           |
|---|-------------------------------|----------------------|-----------|-----------|
| 1 | Chedworth Properties, A<br>15 | 171738-AREA-M-S15-01 |           |           |
|   | Tested by                     | Date                 | Sheet No. | Test Site |
|   | GetGeo                        | 15/04/2021           | 4         | Lot 409   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 1                        | Good  | FILL, topsoil, gravels                          |                |
| 200           |                          | 1                        | ground Result   |   |                |
| 300           |                          | 3                        |   | dense   |                |
| 400           |                          | 3                        |   | Engineered FILL, silt, minor sand               |                |
| 500           |                          | 9                        |   | mixed greys/browns, moist                       |                |
| 600           |                          | 8                        |   | some gravels, sand                              |                |
| 700           |                          | 4                        |   |   |                |
| 800           |                          | 2                        |   | stiff   |                |
| 900           |                          | 2                        |   |   |                |
| 1000          |                          | 1                        |   | SILT, light yellow-brown                        |                |
| 1100          |                          | 1                        |   | minor orange-mottling, moist                    |                |
| 1200          | 70 / 18                  | 0.5                      |   |   |                |
| 1300          |                          | 0.5                      |   |   |                |
| 1400          |                          | 1                        |   | creamy brown                                    |                |
| 1500          |                          | 1                        |   |   |                |
| 1600          |                          | 3                        |   | dense   |                |
| 1700          |                          | 7                        |   |   |                |
| 1800          |                          | 11                       |   | SAND, some silt, light-grey, moist              |                |
| 1900          |                          | 14                       |   | some gravels, minor silt, dark grey, very moist |                |
| 2000          |                          | 14                       |   |   |                |
| 2100          |                          |                          |   | EOB @ 2.0m                                      |                |
| 2200          |                          |                          |   | Target Depth                                    |                |
| 2300          |                          |                          |   |   |                |
| 2400          |                          |                          |   |   |                |
| 2500          |                          |                          |   |   |                |
| 2600          |                          |                          |   |   |                |
| 2700          |                          |                          |   |   |                |
| 2800          |                          |                          |   |   |                |
| 2900          |                          |                          |   |   |                |
| 3000          |                          |                          |   |   |                |
| 3100          |                          |                          |   |   |                |
| 3200          |                          |                          |   |   |                |
| 3300          |                          |                          |   |   |                |
| 3400          |                          |                          |   |   |                |
| 3500          |                          |                          |   |   |                |

| Notes: |                | EOB = End Of Borehole | UTP = Unable To Penetrate | UTE = Unable To Extract |
|--------|----------------|-----------------------|---------------------------|-------------------------|
|        | 147 (1 1 1 1 1 |                       | 0                         |                         |

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.     |                      |           |
|-------------------------------|--------------|----------------------|-----------|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
| Tested by                     | Date         | Sheet No.            | Test Site |
| GetGeo                        | 15/04/2021   | 5                    | Lot 410   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                     | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 1                        |   | FILL, topsoil, gravels                               |                |
| 200           |                          | 2                        | Good  |  |                |
| 300           |                          | 9                        | Ground  | dense  |                |
| 400           |                          | 16                       |   |  |                |
| 500           |                          | 12                       |   | Engineered FILL, silt, sand, some gravels            |                |
| 600           |                          | 5                        |   | mixed light-brown, moist                             |                |
| 700           |                          | 4                        |   |  |                |
| 800           |                          | 7                        |   | minor topsoil, minor gravels                         |                |
| 900           |                          | 4                        |   |  |                |
| 1000          |                          | 2                        |   |  |                |
| 1100          |                          | 2                        |   |  |                |
| 1200          | 128 / 26                 | 1                        |   | very stiff   |                |
| 1300          |                          | 1                        |   | SILT, minor topsoil, minor sand, orange-brown, moist |                |
| 1400          |                          | 1                        |   | light-brown, minor orange-mottling                   |                |
| 1500          |                          | 0.5                      |   |  |                |
| 1600          |                          | 0.5                      |   | some orange-mottling                                 |                |
| 1700          |                          | 3                        |   | loose to dense                                       |                |
| 1800          |                          | 3                        |   | SAND, silt, crreamy brown, some mottling, moist      |                |
| 1900          |                          | 3                        |   | minor silt   |                |
| 2000          |                          | 13                       |   | gravels  |                |
| 2100          |                          |                          |   | EOB @ 2.0m   |                |
| 2200          |                          |                          |   | Target Depth   |                |
| 2300          |                          |                          |   |  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes: | EOB = End Of Borehole                              | UTP = Unable To Penetrate      | UTE = Unable To Extract |
|--------|--|--------------------------------|-------------------------|
| 1      | Weather leading up to test was recent rain and coo | I weather. Fine during testing |                         |
| ^      | 0  |                                |                         |

- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|     | Project Name                  | Job Ref.     |                      |           |
|-----|-------------------------------|--------------|----------------------|-----------|
| 100 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
|     | Tested by                     | Date         | Sheet No.            | Test Site |
|     | GetGeo                        | 15/04/2021   | 6                    | Lot 411   |

| 100  | Table |
|--|-------|
| 200   2     Result     dense   |       |
| 300 3 dense  400 2 500 10 600 11 Fingineered FILL, silt, sand, some gravels mixed light-brown, moist |       |
| 500 10 Engineered FILL, silt, sand, some gravels 700 9 mixed light-brown, moist                      |       |
| 600 11 Engineered FILL, silt, sand, some gravels 700 9 mixed light-brown, moist                      |       |
| 700 9 mixed light-brown, moist   |       |
|  |       |
| 800 9 1 1 1 1  |       |
|  |       |
| 900 10   |       |
| 1000 2 minor topsoil   |       |
| 1100 1   firm  |       |
| 1200 1 SILT, light orange-brown  |       |
| 1300 1 some dark orange-mottling, moist  |       |
| 1400 56 / 18 1 very moist  |       |
| 1500 1   |       |
| 1600 2   |       |
| 1700 2 dense   |       |
| 1800 5 SAND, some gravels, minor silt, grey to dark grey   |       |
| 1900 7 moist   |       |
| 2000 10  | _     |
| 2100 EOB @ 2.0m  |       |
| 2200 Target Depth  |       |
| 2300   |       |
| 2400   |       |
| 2500   |       |
| 2600   |       |
| 2700   |       |
| 2800   |       |
| 2900   |       |
| 3000   |       |
| 3100   |       |
| 3200   |       |
| 3300   |       |
| 3400<br>3500   |       |

Notes: EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
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| Project Name                  | Project Name                              |           |           |
|-------------------------------|---|-----------|-----------|
| Chedworth Properties, A<br>15 | Chedworth Properties, Area M, Stage<br>15 |           |           |
| Tested by                     | Date                                      | Sheet No. | Test Site |
| GetGeo                        | 15/04/2021                                | 7         | Lot 412   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                    | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 1                        | Good  | FILL, topsoil, gravels                              |                |
| 200           |                          | 2                        | Ground  |   |                |
| 300           |                          | 4                        |   | very stiff  |                |
| 400           |                          | 12                       |   |   |                |
| 500           |                          | 8                        |   |   |                |
| 600           |                          | 8                        |   | Engineered FILL, silt, sand, some gravels           |                |
| 700           |                          | 7                        | <u> </u>  | mixed light-brown, moist                            |                |
| 800           |                          | 8                        |   |   |                |
| 900           |                          | 4                        |   |   |                |
| 1000          |                          |                          |   |   |                |
| 1100          |                          |                          |   | very stiff  |                |
| 1200          | 140 / 26                 |                          |   |   |                |
| 1300          |                          |                          |   | SILT, orange-brown, moist                           |                |
| 1400          |                          |                          |   | clayey Silt, very moist                             |                |
| 1500          | 117 / 20                 |                          |   | grading to creamy light-brown, some orange-mottling |                |
| 1600          |                          | 3                        |   |   |                |
| 1700          |                          | 4                        |   |   |                |
| 1800          |                          | 4                        | <del>                                     </del>        | minor mottling                                      |                |
| 1900          |                          | 5                        |   |   |                |
| 2000          |                          | 4                        |   | 500.000   |                |
| 2100          |                          | 4                        |   | EOB @ 2.0m  |                |
| 2200          |                          |                          |   | Target Depth  |                |
| 2300          |                          |                          |   |   |                |
| 2400          |                          |                          |   |   |                |
| 2500<br>2600  |                          |                          |   |   |                |
|               |                          |                          |   |   |                |
| 2700          |                          |                          |   |   |                |
| 2800<br>2900  |                          |                          |   |   |                |
| 3000          |                          |                          |   |   |                |
| 3100          |                          |                          |   |   |                |
| 3200          |                          |                          |   |   |                |
| 3300          |                          |                          |   |   |                |
| 3400          |                          |                          |   |   |                |
| 3500          |                          |                          |   |   |                |

| Notes: | EOB = End Of Borehole                           | UTP = Unable To Penetrate                      | UTE = Unable To Extract |
|--------|---|--|-------------------------|
| 4      | Marthaulandhau in ta tart was an ant asia and a | and the attention of the state of the state of |                         |

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
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|      | Project Name                  | Job Ref.             |           |           |
|------|-------------------------------|----------------------|-----------|-----------|
| 0.00 | Chedworth Properties, A<br>15 | 171738-AREA-M-S15-01 |           |           |
|      | Tested by                     | Date                 | Sheet No. | Test Site |
|      | GetGeo                        | 15/04/2021           | 8         | Lot 413   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                            | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 2                        | Result  | FILL, topsoil, gravels                      |                |
| 200           |                          | 2                        | Good  |   |                |
| 300           |                          | 3                        | Ground  |   |                |
| 400           |                          | 4                        |   | hard  |                |
| 500           |                          | 9                        |   | Engineered FILL, silt, sand, some gravels   |                |
| 600           |                          | 21                       |   | mixed light-brown, moist                    |                |
| 700           |                          | UTP                      |   | interbedded gangular gravels, minor topsoil |                |
| 800           |                          |                          |   |   |                |
| 900           |                          |                          |   | stiff                                       |                |
| 1000          |                          |                          |   | SILT, orange-brown, orange mottling         |                |
| 1100          |                          |                          |   | light grey-brown, minor mottling, moist     |                |
| 1200          | 140 / 50                 | 4                        |   |   |                |
| 1300          |                          | 3                        |   | loose                                       |                |
| 1400          |                          | 2                        |   | SAND, some silt, light grey-brown, moist    |                |
| 1500          |                          | 2                        |   |   |                |
| 1600          |                          | 3                        |   |   |                |
| 1700          |                          | 2                        |   |   |                |
| 1800          |                          | 2                        | <del>                                     </del>        | and a second and second                     |                |
| 1900          |                          | 3                        |   | some gravels, dark grey                     |                |
| 2000<br>2100  |                          | 4                        |   | EOB @ 2.0m                                  |                |
| 2200          |                          |                          |   | Target Depth                                |                |
| 2300          |                          |                          |   | raiget Deptil                               |                |
| 2400          |                          |                          |   |   |                |
| 2500          |                          |                          |   |   |                |
| 2600          |                          |                          |   |   |                |
| 2700          |                          |                          |   |   |                |
| 2800          |                          |                          |   |   |                |
| 2900          |                          |                          |   |   |                |
| 3000          |                          |                          |   |   |                |
| 3100          |                          |                          |   |   |                |
| 3200          |                          |                          |   |   |                |
| 3300          |                          |                          |   |   |                |
| 3400          |                          |                          |   |   |                |
| 3500          |                          |                          |   |   |                |

|  | Notes: | EOB = End Of Borehole | UTP = Unable To Penetrate | UTE = Unable To Extract |
|--|--------|-----------------------|---------------------------|-------------------------|
|--|--------|-----------------------|---------------------------|-------------------------|

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
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| Project Name                              | Job Ref.   |                      |           |
|---|------------|----------------------|-----------|
| Chedworth Properties, Area M, Stage<br>15 |            | 171738-AREA-M-S15-01 |           |
| Tested by                                 | Date       | Sheet No.            | Test Site |
| GetGeo                                    | 15/04/2021 | 9                    | Lot 414   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                           | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 4                        | Good Ground   | FILL, respread topsoil, gravels            |                |
| 200           |                          | 8                        |   |  |                |
| 300           |                          | 7                        | Result  | medium-dense                               |                |
| 400           |                          | 5                        |   |  |                |
| 500           |                          | 4                        |   | Engineered FILL, silt, sand                |                |
| 600           |                          | 4                        |   | some angular gravels                       |                |
| 700           |                          | 2                        |   | mixed light-brown, moist                   |                |
| 800           |                          | 2                        |   | minor topsoil                              |                |
| 900           |                          | 2                        |   |  |                |
| 1000          |                          | 2                        |   |  |                |
| 1100          |                          | 2                        |   | stiff                                      |                |
| 1200          | 82 / 18                  | 2                        |   | Fine sandy SILT, light orange-brown, moist |                |
| 1300          |                          |                          |   |  |                |
| 1400          |                          |                          |   |  |                |
| 1500          |                          |                          |   | loose                                      |                |
| 1600          |                          | 3                        |   | 0111 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |                |
| 1700          |                          | 3                        |   | Silty SAND, light-brown, moist             |                |
| 1800          |                          | 3                        |   | minor silt                                 |                |
| 1900          |                          | 3                        |   | some gravels, grey-brown                   |                |
| 2000<br>2100  |                          | 5                        |   | EOB @ 2.0m                                 |                |
| 2200          |                          | 4                        |   | Target Depth                               |                |
| 2300          |                          |                          |   | raiget Deptil                              |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes: EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract |        |                       |                           |                         |
|--|--------|-----------------------|---------------------------|-------------------------|
|  | Notes: | EOB = End Of Borehole | UTP = Unable To Penetrate | UTE = Unable To Extract |

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
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- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                              | Job Ref.   |                      |           |
|---|------------|----------------------|-----------|
| Chedworth Properties, Area M, Stage<br>15 |            | 171738-AREA-M-S15-01 |           |
| Tested by                                 | Date       | Sheet No.            | Test Site |
| GetGeo                                    | 15/04/2021 | 10                   | Lot 415   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | (Blows/ | netrometer<br>(100mm)<br>10 12 14 16 | Soil Description                       | Water<br>Table |
|---------------|--------------------------|--------------------------|---------|--------------------------------------|--|----------------|
| 100           |                          | 2                        |         | Good                                 | FILL, topsoil, gravels                 |                |
| 200           |                          | 12                       |         | Ground Results                       |  |                |
| 300           |                          | 14                       |         | Nesuits                              |  |                |
| 400           |                          | 4                        |         |                                      | hard                                   |                |
| 500           |                          | 7                        |         |                                      | difficult to machine auger             |                |
| 600           | 204+ / -                 | 5                        |         |                                      | Engineered FILL, silt, minor sand      |                |
| 700           |                          | 9                        |         |                                      | some gravels, dark orange-brown, moist |                |
| 800           |                          | 7                        |         |                                      |  |                |
| 900           |                          | 5                        |         |                                      | minor topsoil                          |                |
| 1000          | _                        | 4                        | A.      |                                      |  |                |
| 1100          |                          | 3                        |         |                                      | SILT, minor sand, brown, moist         |                |
| 1200          |                          | 2                        |         |                                      |  |                |
| 1300          |                          | 2                        |         |                                      | medium-dense                           |                |
| 1400          |                          | 3                        |         |                                      | Silty SAND, light-brown, moist         |                |
| 1500          |                          | 3                        |         |                                      | minor silt, light grey-brown           |                |
| 1600          |                          | 5                        |         |                                      |  |                |
| 1700          |                          | 3                        |         |                                      |  |                |
| 1800          |                          | 5                        |         |                                      | minor gravels, dark grey               |                |
| 1900          |                          | 6                        |         |                                      |  |                |
| 2000          |                          | 7                        |         |                                      |  |                |
| 2100          |                          |                          |         |                                      | EOB @ 2.0m                             |                |
| 2200          |                          |                          |         |                                      | Target Depth                           |                |
| 2300          |                          |                          |         |                                      |  |                |
| 2400          |                          |                          |         |                                      |  |                |
| 2500          |                          |                          |         |                                      |  |                |
| 2600          |                          |                          |         |                                      |  |                |
| 2700          |                          |                          |         |                                      |  |                |
| 2800          |                          |                          |         |                                      |  |                |
| 2900          |                          |                          |         |                                      |  |                |
| 3000          |                          |                          |         |                                      |  |                |
| 3100          |                          |                          |         |                                      |  |                |
| 3200          |                          |                          |         |                                      |  |                |
| 3300<br>3400  |                          |                          |         |                                      |  |                |
| 3500          |                          |                          |         |                                      |  |                |

| Notes: | EOB = End Of Borehole                             | UTP = Unable To Penetrate       | UTE = Unable To Extract |
|--------|---|---------------------------------|-------------------------|
| 4      | Mosther leading up to test was recent rain and so | al weather. Fine during testing |                         |

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.             |           |           |
|-------------------------------|----------------------|-----------|-----------|
| Chedworth Properties, A<br>15 | 171738-AREA-M-S15-01 |           |           |
| Tested by                     | Date                 | Sheet No. | Test Site |
| GetGeo                        | 15/04/2021           | 11        | Lot 416   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                 | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 1                        | Good  | FILL, topsoil, gravels                           |                |
| 200           |                          | 1                        | ground Result   |  |                |
| 300           |                          | 1                        |   | dense  |                |
| 400           |                          | 8                        |   | Engineered FILL, silt, minor sand                |                |
| 500           |                          | 11                       |   | mixed greys/browns, moist                        |                |
| 600           |                          | 9                        |   | some gravels, sand                               |                |
| 700           |                          | 5                        |   |  |                |
| 800           |                          | 5                        |   |  |                |
| 900           |                          | 3                        |   | SILT, orange-brown, moist                        |                |
| 1000          |                          | 3                        |   | loose to medium-dense                            |                |
| 1100          |                          | 2                        |   | Silty SAND, light yellow-brown                   |                |
| 1200          |                          |                          |   | minor orange mottling, moist                     |                |
| 1300          |                          | 4                        |   | minor silt, minor fine gravels, light grey-brown |                |
| 1400          |                          | 4                        |   |  |                |
| 1500          |                          | 5                        |   |  |                |
| 1600          |                          | 5                        |   |  |                |
| 1700          |                          | 6                        |   |  |                |
| 1800          |                          | 6                        |   | some fine gravels, dark grey                     |                |
| 1900          |                          | 7                        |   |  |                |
| 2000          |                          | 7                        |   |  |                |
| 2100          |                          |                          |   | EOB @ 2.0m                                       |                |
| 2200          |                          |                          |   | Target Depth                                     |                |
| 2300          |                          |                          |   |  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|     | Project Name                  | Job Ref.     |            |            |
|-----|-------------------------------|--------------|------------|------------|
| 100 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-ARE | A-M-S15-01 |
|     | Tested by                     | Date         | Sheet No.  | Test Site  |
|     | GetGeo                        | 15/04/2021   | 12         | Lot 417    |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 3                        | Result  | FILL, topsoil, gravels                          |                |
| 200           |                          | 3                        | Good  |   |                |
| 300           |                          | 4                        | Ground  | dense   |                |
| 400           |                          | 10                       |   |   |                |
| 500           |                          | 16                       |   | Engineered FILL, silt, sand, some gravels       |                |
| 600           |                          | 16                       |   | mixed light-brown, moist                        |                |
| 700           |                          | 18                       |   |   |                |
| 800           |                          | 13                       |   |   |                |
| 900           |                          | 5                        |   | Sandy SILT, orange-brown, moist                 |                |
| 1000          |                          | 4                        |   | medium dense                                    |                |
| 1100          |                          | 4                        | /   | Silty SAND, minor pumiceous materials           |                |
| 1200          |                          | 3                        |   | light yellow-brown, some orange mottling, moist |                |
| 1300          |                          | 3                        |   | trace silt, light grey-brown                    |                |
| 1400          |                          | 4                        |   |   |                |
| 1500          |                          | 6                        |   |   |                |
| 1600          |                          | 6                        |   |   |                |
| 1700          |                          | 5                        |   | some fine gravels, dark brown / grey            |                |
| 1800          |                          | 5                        |   |   |                |
| 1900          |                          | 7                        |   |   |                |
| 2000          |                          | 7                        |   | FOD @ 2.0m                                      |                |
| 2100          |                          |                          |   | EOB @ 2.0m<br>Target Depth                      |                |
| 2200<br>2300  |                          |                          |   | raiget Deptil                                   |                |
| 2400          |                          |                          |   |   |                |
| 2500          |                          |                          |   | 1   |                |
| 2600          |                          |                          |   |   |                |
| 2700          |                          |                          |   |   |                |
| 2800          |                          |                          |   |   |                |
| 2900          |                          |                          |   |   |                |
| 3000          |                          |                          |   | 1   |                |
| 3100          |                          |                          |   | 1   |                |
| 3200          |                          |                          |   |   |                |
| 3300          |                          |                          |   | 1   |                |
| 3400          |                          |                          |   | 1   |                |
| 3500          |                          |                          |   | 1   |                |

| Notes: | EOB = End Of Borehole                              | UTP = Unable To Penetrate       | UTE = Unable To Extract |  |
|--------|--|---------------------------------|-------------------------|--|
| 1      | Weather leading up to test was recent rain and coo | ol weather. Fine during testing |                         |  |
| 2      | Cround water was not anacuntered during testing    |                                 |                         |  |

- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                      | Job Ref.     |            |            |
|-----------------------------------|--------------|------------|------------|
| <br>Chedworth Properties, A<br>15 | rea M, Stage | 171738-ARE | A-M-S15-01 |
| Tested by                         | Date         | Sheet No.  | Test Site  |
| GetGeo                            | 15/04/2021   | 13         | Lot 418    |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                  | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 3                        | Good<br>Ground  | FILL, topsoil, gravels                            |                |
| 200           |                          | 3                        | - Result  |   |                |
| 300           |                          | 9                        |   | dense   |                |
| 400           |                          | 11                       |   | Engineered  |                |
| 500           |                          | 11                       |   | FILL, silt, sand, some gravels, mixed light-brown |                |
| 600           |                          | 6                        |   | moist   |                |
| 700           |                          | 4                        |   |   |                |
| 800           |                          | 4                        |   |   |                |
| 900           | 204+ / -                 | 4                        |   | SILT, minor sand, orange-brown, moist             |                |
| 1000          |                          | 4                        | A   | some sand   |                |
| 1100          |                          | 5                        |   | medium dense                                      |                |
| 1200          |                          | 3                        |   | Silty SAND, light yellow-brown, moist             |                |
| 1300          |                          | 3                        |   | minor silt, light grey-brown                      |                |
| 1400          |                          | 4                        |   |   |                |
| 1500          |                          | 5                        |   | trace silt, grey                                  |                |
| 1600          |                          | 5                        |   |   |                |
| 1700          |                          | 6                        |   |   |                |
| 1800          |                          | 5                        |   |   |                |
| 1900          |                          | 4                        |   |   |                |
| 2000          |                          | 6                        |   |   |                |
| 2100          |                          |                          |   | EOB @ 2.0m  |                |
| 2200          |                          |                          |   | Target Depth                                      |                |
| 2300          |                          |                          |   |   |                |
| 2400          |                          |                          |   |   |                |
| 2500          |                          |                          |   |   |                |
| 2600          |                          |                          |   |   |                |
| 2700          |                          |                          |   |   |                |
| 2800          |                          |                          |   |   |                |
| 2900          |                          |                          |   |   |                |
| 3000          |                          |                          |   |   |                |
| 3100          |                          |                          |   |   |                |
| 3200          |                          |                          |   |   |                |
| 3300          |                          |                          |   |   |                |
| 3400          |                          |                          |   |   |                |
| 3500          |                          |                          |   |   |                |

| Notes: EOB = End Of Borehole | e UTP = Unable To Penetrate | UTE = Unable To Extract |
|------------------------------|-----------------------------|-------------------------|
|------------------------------|-----------------------------|-------------------------|

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.                                  |           |           |
|-------------------------------|---|-----------|-----------|
| Chedworth Properties, A<br>15 | Chedworth Properties, Area M, Stage<br>15 |           |           |
| Tested by                     | Date                                      | Sheet No. | Test Site |
| GetGeo                        | 15/04/2021                                | 14        | Lot 419   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer<br>(Blows/100mm)<br>0 2 4 6 8 10 12 14 16 | Soil Description                                    | Water<br>Table |
|---------------|--------------------------|--------------------------|--|---|----------------|
| 100           |                          | 3                        | Good   | FILL, topsoil, gravels                              |                |
| 200           |                          | 4                        | Ground   |   |                |
| 300           |                          | 5                        |  | very stiff  |                |
| 400           |                          | 6                        |  |   |                |
| 500           |                          | 7                        |  | Engineered  |                |
| 600           |                          | 10                       |  | FILL, silt, sand, some gravels, minor clay          |                |
| 700           |                          | 8                        |  | mixed greys, browns, orange-brown, moist            |                |
| 800           |                          | 8                        |  |   |                |
| 900           |                          | 5                        |  |   |                |
| 1000          |                          | 5                        |  | minor topsoil                                       |                |
| 1100          |                          | 3                        |  | very stiff  |                |
| 1200          | 166 / 35                 | 1                        |  |   |                |
| 1300          |                          | 2                        |  | SILT, orange-brown, moist                           |                |
| 1400          |                          | 4                        |  | clayey Silt, very moist                             |                |
| 1500          |                          | 3                        |  | grading to creamy light-brown, some orange-mottling |                |
| 1600          |                          | 2                        |  | loose   |                |
| 1700          |                          | 3                        |  | Silty SAND, grey-brown, minor mottling, moist       |                |
| 1800          |                          | 3                        |  | minor silt  |                |
| 1900          |                          | 3                        |  | dark grey   |                |
| 2000          |                          | 4                        |  |   |                |
| 2100          |                          |                          |  | EOB @ 2.0m  |                |
| 2200          |                          |                          |  | Target Depth  |                |
| 2300          |                          |                          |  |   |                |
| 2400          |                          |                          |  |   |                |
| 2500          |                          |                          |  |   |                |
| 2600          |                          |                          |  |   |                |
| 2700          |                          |                          |  |   |                |
| 2800          |                          |                          |  |   |                |
| 2900          |                          |                          |  |   |                |
| 3000          |                          |                          |  |   |                |
| 3100          |                          |                          |  |   |                |
| 3200          |                          |                          |  |   |                |
| 3300          |                          |                          |  |   |                |
| 3400          |                          |                          |  |   |                |
| 3500          |                          |                          |  |   |                |

| Notes: | EOB = End Of Borehole                              | UTP = Unable To Penetrate      | UTE = Unable To Extract |
|--------|--|--------------------------------|-------------------------|
| 1      | Weather leading up to test was recent rain and coo | l weather. Fine during testing |                         |

- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|      | Project Name                  |              | Job Ref.   |            |
|------|-------------------------------|--------------|------------|------------|
| 1000 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-ARE | A-M-S15-01 |
|      | Tested by                     | Date         | Sheet No.  | Test Site  |
|      | GetGeo                        | 15/04/2021   | 15         | Lot 420    |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                               | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 2                        |   | FILL, topsoil, gravels                         |                |
| 200           |                          | 2                        | Good  |  |                |
| 300           |                          | 3                        | Ground  | dense to very dense                            |                |
| 400           |                          | 10                       |   |  |                |
| 500           |                          | 11                       |   | Engineered FILL, silt, sand, some gravels      |                |
| 600           |                          | 7                        |   | mixed light-brown, moist                       |                |
| 700           |                          | 12                       |   | interbedded angular gravels, minor topsoil     |                |
| 800           |                          | 18                       |   | difficult to machine auger                     |                |
| 900           |                          | 16                       |   |  |                |
| 1000          |                          | 11                       |   |  |                |
| 1100          |                          | 13                       |   |  |                |
| 1200          |                          | 4                        |   | stiff  |                |
| 1300          |                          | 7                        |   | SILT, minor sand, yellow-brown, minor mottling |                |
| 1400          |                          | 4                        |   | moist  |                |
| 1500          |                          | 4                        |   | medium dense                                   |                |
| 1600          |                          | 7                        |   | Silty SAND, yellow-brown, moist                |                |
| 1700          |                          | 7                        |   | and an add                                     |                |
| 1800          |                          | 6                        |   | minor silt                                     |                |
| 1900          |                          | 5                        |   | grey   |                |
| 2000<br>2100  |                          | 6                        |   | EOB @ 2.0m                                     |                |
| 2200          |                          |                          |   | Target Depth                                   |                |
| 2300          |                          |                          |   | raiget Deptil                                  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          | <del>                                     </del>        |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes: | EOB = End Of Borehole                              | UTP = Unable To Penetrate       | UTE = Unable To Extract |
|--------|--|---------------------------------|-------------------------|
| 1      | Weather leading up to test was recent rain and coo | ol weather. Fine during testing |                         |

- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.     |                      |           |
|-------------------------------|--------------|----------------------|-----------|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
| Tested by                     | Date         | Sheet No.            | Test Site |
| GetGeo                        | 16/04/2021   | 16                   | Lot 421   |

| Depth (mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                       | Water<br>Table |
|------------|--------------------------|--------------------------|---|--|----------------|
| 100        |                          | 1                        | Good Ground   | FILL, respread topsoil, gravels                        |                |
| 200        |                          | 1                        | D II  |  |                |
| 300        |                          | 2                        | Result  | medium-dense   |                |
| 400        |                          | 15                       |   |  |                |
| 500        |                          | 15                       |   | Engineered FILL, silt, sand                            |                |
| 600        |                          | UTP                      |   | some angular gravels                                   |                |
| 700        |                          | Not tested               |   | mixed light-brown, moist                               |                |
| 800        |                          | Not tested               |   | minor topsoil  |                |
| 900        |                          | Not tested               |   |  |                |
| 1000       |                          | 2                        |   |  |                |
| 1100       |                          | 6                        |   |  |                |
| 1200       | 82 / 18                  | 7                        |   | varying dominance by Silt or Sand                      |                |
| 1300       |                          | 13                       |   |  |                |
| 1400       |                          | 7                        |   |  |                |
| 1500       |                          | 6                        |   |  |                |
| 1600       |                          | 5                        |   |  |                |
| 1700       |                          | 10                       |   |  |                |
| 1800       |                          | 10                       |   |  |                |
| 1900       |                          | 6                        |   |  |                |
| 2000       |                          | 7                        |   |  |                |
| 2100       |                          | 6                        |   | _  |                |
| 2200       |                          | 7                        |   |  |                |
| 2300       |                          | 6                        |   | medium dense   |                |
| 2400       |                          | 10                       |   | Silty SAND, minor fine gravels, light grey, very moist |                |
| 2500       |                          | 8                        |   |  |                |
| 2600       |                          | 3                        |   |  |                |
| 2700       |                          | 3                        |   |  |                |
| 2800       |                          | 3                        |   | very stiff   |                |
| 2900       |                          | 2                        |   | Fine sandy SILT, creamy light-brown                    |                |
| 3000       |                          | 3                        |   | some orange mottling, moist                            |                |
| 3100       |                          |                          |   |  |                |
| 3200       |                          |                          |   | EOB @ 3.0m   |                |
| 3300       |                          |                          |   | Target Depth   |                |
| 3400       |                          |                          |   | 1  |                |
| 3500       |                          |                          |   |  |                |

| Notes: | EOB = End Of Bore                            | hole UTP = Unable To Penetrate        | UTE = Unable To Extract |
|--------|--|---------------------------------------|-------------------------|
| 1      | Weather leading up to test was recent rain a | and cool weather. Fine during testing |                         |

- The weather leading up to test was recent fam and eoor weather. The during test
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|        | Project Name                  | Job Ref.     |                      |           |
|--------|-------------------------------|--------------|----------------------|-----------|
| 1 C. 1 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
|        | Tested by                     | Date         | Sheet No.            | Test Site |
|        | GetGeo                        | 16/04/2021   | 17                   | Lot 421b  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description  | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 3                        | Result  |   |                |
| 200           |                          | 7                        | Good  | FILL, topsoil, gravels                                  |                |
| 300           |                          | 9                        | Ground  |   |                |
| 400           |                          | 12                       |   |   |                |
| 500           |                          | UTP                      |   |   |                |
| 600           |                          |                          |   | Engineered FILL, silt, sand, minor angular gravels      |                |
| 700           |                          | 6                        |   | mixed brown, moist                                      |                |
| 800           |                          | 7                        |   |   |                |
| 900           |                          | 8                        |   |   |                |
| 1000          |                          | 11                       |   |   |                |
| 1100          |                          | 9                        |   |   |                |
| 1200          |                          | 5                        |   | some orange-brown                                       |                |
| 1300          |                          | 4                        |   |   |                |
| 1400          |                          | 5                        |   |   |                |
| 1500          |                          | 8                        |   |   |                |
| 1600          |                          | 8                        |   |   |                |
| 1700          |                          | 12                       |   | 1700-1800mm significant angular gravels, silt and sand  |                |
| 1800          |                          | UTP                      |   | dark grey-brown   |                |
| 1900          |                          | 2                        |   |   |                |
| 2000          |                          | 2                        |   | SILT, minor fine snd, creamy light-brown, some mottling |                |
| 2100          |                          | 2                        |   | moist   |                |
| 2200          |                          |                          |   | minor clay, minor orange mottling                       |                |
| 2300          |                          |                          |   |   |                |
| 2400          |                          |                          |   |   |                |
| 2500          |                          |                          |   | EOB @ 2400mm  |                |
| 2600          |                          |                          |   |   |                |
| 2700          |                          |                          |   |   |                |
| 2800          |                          |                          |   |   |                |
| 2900          |                          |                          |   |   |                |
| 3000          |                          |                          |   |   |                |
| 3100          |                          |                          |   |   |                |
| 3200          |                          |                          |   |   |                |
| 3300          |                          |                          |   |   |                |
| 3400          |                          |                          |   |   |                |
| 3500          |                          |                          |   |   |                |

| Notes: | EOB = End Of Borehole   |        |  |  |  |  |
|--------|---|--------|--|--|--|--|
| 1      | Weather leading up to test was recent rain and cool weather. Fine during testing                                  |        |  |  |  |  |
| 2      | Ground water was not encountered during testing   |        |  |  |  |  |
| 3      | Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength) |        |  |  |  |  |
| 4      | Shear Vane records include Re-moulded values where possible   |        |  |  |  |  |
| 5      | Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021  | Rev2.8 |  |  |  |  |



| Project Name                  | Job Ref.     |            |            |
|-------------------------------|--------------|------------|------------|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-ARE | A-M-S15-01 |
| Tested by                     | Date         | Sheet No.  | Test Site  |
| GetGeo                        | 16/04/2021   | 18         | Lot 422a   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | (E | Blows/1         | etrometer<br>00mm)<br>10 12 14 16 | Soil Description                             | Water<br>Table |
|---------------|--------------------------|--------------------------|----|-----------------|-----------------------------------|--|----------------|
| 100           |                          | 2                        |    | <del>  -</del>  | Good                              | FILL, topsoil, gravels                       |                |
| 200           |                          | 2                        |    | _ ا             | Ground Results                    |  |                |
| 300           |                          | 9                        |    |                 | results                           |  |                |
| 400           |                          | 17                       |    |                 |                                   | hard   |                |
| 500           |                          | 19                       |    |                 |                                   | difficult to machine auger                   |                |
| 600           | 204+/-                   | 17                       |    |                 |                                   | Engineered FILL, silt, minor sand            |                |
| 700           |                          | 16                       |    |                 |                                   | some gravels, dark orange-brown, moist       |                |
| 800           |                          | 22                       |    |                 |                                   |  |                |
| 900           |                          | 17                       |    |                 |                                   |  |                |
| 1000          |                          | 17                       | 1  |                 |                                   |  |                |
| 1100          |                          | 17                       |    |                 |                                   |  |                |
| 1200          |                          | 12                       |    |                 |                                   |  |                |
| 1300          |                          | 10                       |    |                 |                                   |  |                |
| 1400          |                          | 12                       |    |                 |                                   |  |                |
| 1500          |                          | 13                       |    |                 |                                   |  |                |
| 1600          |                          | 9                        |    |                 |                                   | medium dense                                 |                |
| 1700          |                          | 8                        |    | $\perp \Lambda$ |                                   |  |                |
| 1800          |                          | 9                        |    |                 |                                   | Silty SAND, light-brown, moist to very moist |                |
| 1900          |                          | 7                        |    |                 |                                   |  |                |
| 2000          |                          | 10                       |    |                 |                                   |  |                |
| 2100          |                          |                          |    |                 |                                   | EOB @ 2.0m                                   |                |
| 2200          |                          |                          |    |                 |                                   | Target Depth                                 |                |
| 2300          |                          |                          |    |                 |                                   |  |                |
| 2400          |                          |                          |    |                 |                                   |  |                |
| 2500          |                          |                          |    |                 |                                   |  |                |
| 2600          |                          |                          |    |                 |                                   |  |                |
| 2700          |                          |                          |    |                 |                                   |  |                |
| 2800          |                          |                          |    |                 |                                   |  |                |
| 2900          |                          |                          |    |                 |                                   |  |                |
| 3000          |                          |                          |    |                 |                                   |  |                |
| 3100          |                          |                          |    |                 |                                   |  |                |
| 3200          |                          |                          |    |                 |                                   |  |                |
| 3300          |                          |                          |    |                 |                                   |  |                |
| 3400          |                          |                          |    |                 |                                   |  |                |
| 3500          |                          |                          |    |                 |                                   |  |                |

| Notes | EOB = End Of Borehole   |
|-------|---|
| 1     | Weather leading up to test was recent rain and cool weather. Fine during testing                                  |
| 2     | Ground water was not encountered during testing   |
| 3     | Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength) |

Shear Vane readings are converted readings, as per calibration of Shear Vane records include Re-moulded values where possible

5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                      | Job Ref.     |                      |           |
|-----------------------------------|--------------|----------------------|-----------|
| <br>Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
| Tested by                         | Date         | Sheet No.            | Test Site |
| GetGeo                            | 16/04/2021   | 19                   | Lot 422b  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                 | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 3                        | Good  | FILL, topsoil, gravels                           |                |
| 200           |                          | 6                        | Ground Result   |  |                |
| 300           |                          | 13                       | T toount  |  |                |
| 400           |                          | 14                       |   |  |                |
| 500           |                          | 10                       |   | Engineered FILL, silt, sand, angular gravels     |                |
| 600           |                          | 21                       |   | mixed brown, moist                               |                |
| 700           |                          | UTP                      |   | difficult to machine auger                       |                |
| 800           |                          |                          |   | significant gravels                              |                |
| 900           |                          | 11                       |   |  |                |
| 1000          |                          | 14                       |   | grey-brown                                       |                |
| 1100          |                          | UTP                      |   |  |                |
| 1200          |                          |                          |   |  |                |
| 1300          |                          | 12                       |   |  |                |
| 1400          |                          | 16                       |   |  |                |
| 1500          |                          | 13                       |   |  |                |
| 1600          |                          | 9                        |   |  |                |
| 1700          |                          | 4                        |   |  |                |
| 1800          |                          | 3                        |   |  |                |
| 1900          |                          | 4                        |   |  |                |
| 2000          |                          | 6                        |   | SILT, minor fine sand, creamy light-brown, moist |                |
| 2100          |                          | 8                        |   |  |                |
| 2200          |                          |                          |   |  |                |
| 2300          |                          |                          |   |  |                |
| 2400          |                          |                          |   | Silty SAND, creamy light-brown, moist            |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   | EOB @ 2500mm                                     |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes: | EOB = End Of Borehole                              | UTP = Unable To Penetrate      | UTE = Unable To Extract |
|--------|--|--------------------------------|-------------------------|
| 1      | Weather leading up to test was recent rain and coo | I weather. Fine during testing |                         |

- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job F        | Ref.                 |           |  |
|-------------------------------|--------------|----------------------|-----------|--|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |  |
| Tested by                     | Date         | Sheet No.            | Test Site |  |
| GetGeo                        | 16/04/2021   | 20                   | Lot 423   |  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                             | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 6                        | Good  | FILL, topsoil, gravels                       |                |
| 200           |                          | 6                        | ground  |  |                |
| 300           |                          | 12                       |   | dense  |                |
| 400           |                          | 12                       |   | Engineered FILL, silt, minor sand            |                |
| 500           |                          | 13                       |   | mixed greys/browns, moist                    |                |
| 600           |                          | 16                       |   | some gravels, sand                           |                |
| 700           |                          | 17                       |   |  |                |
| 800           |                          | 18                       |   | difficult to machine auger                   |                |
| 900           |                          | 20                       |   | difficult to extract                         |                |
| 1000          |                          | UTP                      |   |  |                |
| 1100          |                          |                          |   |  |                |
| 1200          |                          |                          |   |  |                |
| 1300          |                          | 5                        |   |  |                |
| 1400          |                          | 10                       |   |  |                |
| 1500          |                          | 9                        |   |  |                |
| 1600          |                          | 7                        |   |  |                |
| 1700          |                          | 7                        |   | very stiff                                   |                |
| 1800          |                          | 7                        |   | SILT, some fine sand, light grey, very moist |                |
| 1900          |                          | 6                        |   |  |                |
| 2000          |                          | 5                        |   |  |                |
| 2100          |                          |                          |   | EOB @ 2.0m                                   |                |
| 2200          |                          |                          |   | Target Depth                                 |                |
| 2300          |                          |                          |   |  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes: | EOB = End Of Borehole                              | UTP = Unable To Penetrate       | UTE = Unable To Extract |
|--------|--|---------------------------------|-------------------------|
| 1      | Weather leading up to test was recent rain and coo | ol weather. Fine during testing |                         |

- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|   | Project Name                  | Job Ref.     |                      |           |
|---|-------------------------------|--------------|----------------------|-----------|
| 1 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
|   | Tested by                     | Date         | Sheet No.            | Test Site |
|   | GetGeo                        | 16/04/2021   | 21                   | Lot 424   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                             | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 5                        | Result  | FILL, topsoil, gravels                       |                |
| 200           |                          | 5                        | Good  |  |                |
| 300           |                          | 7                        | Ground  | dense  |                |
| 400           |                          | 7                        |   |  |                |
| 500           |                          | 16                       |   | Engineered FILL, silt, sand, some gravels    |                |
| 600           |                          | 20                       |   | mixed light-brown, moist                     |                |
| 700           |                          | 18                       |   |  |                |
| 800           |                          | 12                       |   | some gravels, sand                           |                |
| 900           |                          | 12                       |   |  |                |
| 1000          |                          | 12                       | 1 1   | difficult to machine auger                   |                |
| 1100          |                          | 7                        |   | difficult to extract                         |                |
| 1200          |                          | 11                       |   |  |                |
| 1300          |                          | 12                       |   |  |                |
| 1400          |                          | 13                       |   | very stiff                                   |                |
| 1500          |                          | 7                        |   |  |                |
| 1600          |                          | 4                        | <u> </u>  | SILT, some fine sand, light grey, very moist |                |
| 1700          |                          | 3                        |   |  |                |
| 1800          |                          | 3                        |   |  |                |
| 1900          |                          | 3                        |   |  |                |
| 2000          | 187 / 41                 | 6                        |   |  |                |
| 2100          |                          |                          |   | EOB @ 2.0m                                   |                |
| 2200          |                          |                          |   | Target Depth                                 |                |
| 2300          |                          |                          |   |  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes: | EOB = End Of Borehole                              | UTP = Unable To Penetrate       | UTE = Unable To Extract |
|--------|--|---------------------------------|-------------------------|
| 1      | Weather leading up to test was recent rain and coo | ol weather. Fine during testing |                         |

- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|      | Project Name                  | Job Ref.     |                      |           |
|------|-------------------------------|--------------|----------------------|-----------|
| 1000 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
|      | Tested by                     | Date         | Sheet No.            | Test Site |
|      | GetGeo                        | 16/04/2021   | 22                   | Lot 425   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                          | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 7                        | Good<br>Ground  | FILL, topsoil, gravels                    |                |
| 200           |                          | 8                        | Result  |   |                |
| 300           |                          | 15                       |   | dense                                     |                |
| 400           |                          | 16                       |   |   |                |
| 500           |                          | 20                       |   | Engineered FILL, silt, sand, some gravels |                |
| 600           |                          | UTP                      |   | mixed light-brown, moist                  |                |
| 700           |                          |                          |   | some gravels, sand                        |                |
| 800           |                          |                          |   |   |                |
| 900           |                          | UTP                      |   | difficult to machine auger                |                |
| 1000          |                          |                          |   | difficult to extract                      |                |
| 1100          |                          |                          |   |   |                |
| 1200          |                          | 5                        |   | medium dense to dense                     |                |
| 1300          |                          | 5                        |   |   |                |
| 1400          |                          | 3                        |   | Silty SAND, orange-brown, moist           |                |
| 1500          |                          | 4                        |   | minor silt                                |                |
| 1600          |                          | 6                        |   | some fine gravels                         |                |
| 1700          |                          | 11                       |   |   |                |
| 1800          |                          | 10                       |   |   |                |
| 1900          |                          | 8                        |   |   |                |
| 2000          |                          | 8                        |   |   |                |
| 2100          |                          |                          |   | EOB @ 2.0m                                |                |
| 2200          |                          |                          |   | Target Depth                              |                |
| 2300          |                          |                          |   |   |                |
| 2400          |                          |                          |   |   |                |
| 2500          |                          |                          |   |   |                |
| 2600          |                          |                          |   |   |                |
| 2700          |                          |                          |   |   |                |
| 2800          |                          |                          |   |   |                |
| 2900          |                          |                          |   |   |                |
| 3000          |                          |                          |   |   |                |
| 3100          |                          |                          |   |   |                |
| 3200          |                          |                          |   |   |                |
| 3300          |                          |                          |   |   |                |
| 3400          |                          |                          |   |   |                |
| 3500          |                          |                          |   |   |                |



- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.     |            |            |
|-------------------------------|--------------|------------|------------|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-ARE | A-M-S15-01 |
| Tested by                     | Date         | Sheet No.  | Test Site  |
| GetGeo                        | 16/04/2021   | 23         | Lot 426    |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                       | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 2                        | Good  | FILL, topsoil, gravels                                 |                |
| 200           |                          | 3                        | Ground  |  |                |
| 300           | 204+ / -                 | 3                        |   | very stiff   |                |
| 400           |                          | 4                        |   |  |                |
| 500           |                          | 4                        | N   |  |                |
| 600           | 204+ / -                 | 5                        |   | Engineered FILL, silt, minor clay, yellow-brown, moist |                |
| 700           |                          | 4                        |   |  |                |
| 800           |                          | 4                        |   |  |                |
| 900           | 204+ / -                 | 4                        |   |  |                |
| 1000          |                          | 6                        |   |  |                |
| 1100          |                          | 6                        |   |  |                |
| 1200          | 204+ / -                 |                          |   | hard   |                |
| 1300          |                          |                          |   |  |                |
| 1400          |                          |                          |   | SILT, minor clay, dark orange-brown, moist             |                |
| 1500          | 146 / 41                 |                          |   | becoming yellow-brown                                  |                |
| 1600          |                          |                          |   |  |                |
| 1700          |                          |                          |   |  |                |
| 1800          |                          |                          |   |  |                |
| 1900          |                          |                          |   | creamy pinkish brown                                   |                |
| 2000          | 70 / 35                  |                          |   |  |                |
| 2100          |                          |                          |   | EOB @ 2.0m   |                |
| 2200          |                          |                          |   | Target Depth   |                |
| 2300          |                          |                          |   |  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes:  | EOB = End Of Borehole | UTP = Unable To Penetrate | UTE = Unable To Extract |
|---------|-----------------------|---------------------------|-------------------------|
| 1101001 | EGB Elia di Bololidio | CTT CTTABLE TO T CTTALL   | OIL CHADIO IO EMILAO    |

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                      | Job Ref.     |                      |           |
|-----------------------------------|--------------|----------------------|-----------|
| <br>Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
| Tested by                         | Date         | Sheet No.            | Test Site |
| GetGeo                            | 16/04/2021   | 24                   | Lot 427   |

| 100   2   Result   FILL, topsoil, gravels     200   2   300   204+/- 3   Ground   dense to very dense   hand auger to 900mm     Engineered FILL, silt, minor clay   orange-brown, moist |  |
|---|--|
| 300 204+ / - 3 Good Ground dense to very dense hand auger to 900mm Engineered FILL, silt, minor clay  |  |
| 300 204+ / - 3 Good Ground dense to very dense hand auger to 900mm Engineered FILL, silt, minor clay  |  |
| 400 7 hand auger to 900mm 500 4 Engineered FILL, silt, minor clay   |  |
|   |  |
| 600 UTP 5 orange-brown, moist   |  |
|   |  |
| 700 4   |  |
| 800 5 /   |  |
| 900 204+ / - 4  |  |
| 1000 4 hard   |  |
| 1100 4  |  |
| 1200 204+ / - SILT, minor clay, light grey-brown, moist   |  |
| 1300 minor orange mottling  |  |
| 1400  |  |
| 1500 204+ / -   |  |
| 1600  |  |
| 1700 pinkish creamy-brown   |  |
| 1800  |  |
| 1900  |  |
| 2000 181 / 70   |  |
| 2100 EOB @ 2.0m   |  |
| 2200 Target Depth   |  |
| 2300  |  |
| 2400  |  |
| 2500  |  |
| 2600  |  |
| 2700  |  |
| 2800  |  |
| 2900  |  |
| 3000  |  |
| 3100  |  |
| 3200  |  |
| 3300  |  |
| 3400<br>3500  |  |

Notes: EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.     |            |            |
|-------------------------------|--------------|------------|------------|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-ARE | A-M-S15-01 |
| Tested by                     | Date         | Sheet No.  | Test Site  |
| GetGeo                        | 16/04/2021   | 25         | Lot 428    |

| Depth | Undrained   | No of blows |   |   |   |   | Penet |        |        | Soil Description   | Water |
|-------|-------------|-------------|---|---|---|---|-------|--------|--------|--|-------|
| (mm)  | Shear (kPa) | /100mm      | 0 | 2 | 4 |   | 8 1   | •      |        | Con 2330 phon  | Table |
| 100   |             |             |   |   |   |   |       | - Good | Ground | FILL, respread topsoil, gravels                            |       |
| 200   |             |             |   |   |   |   |       |        |        |  |       |
| 300   | 204+ / -    |             |   |   |   |   |       | - Resu | lt     | hard   |       |
| 400   |             |             |   |   |   |   |       |        |        | Engineered FILL, clay, orange-brown, moist                 |       |
| 500   |             |             |   |   |   |   |       |        |        | hand auger to 900mm  |       |
| 600   | 204+ / -    |             |   |   |   | İ |       |        |        |  |       |
| 700   |             |             |   |   |   |   |       |        |        | hard   |       |
| 800   |             |             |   |   |   | i |       |        |        | SILT, minor fine sand, yellow-brown, moist                 |       |
| 900   | 204+ / -    |             | Ш |   |   |   |       |        |        |  |       |
| 1000  |             |             | Ц |   | , | , |       |        |        |  |       |
| 1100  |             |             | Ц |   |   |   |       |        |        |  |       |
| 1200  | 204+ / -    |             | Ц |   |   |   |       |        |        |  |       |
| 1300  |             |             | Ш |   |   |   |       |        |        | light yellow-brown, some orange-mottling                   |       |
| 1400  |             |             | Ц | _ |   |   |       |        |        |  |       |
| 1500  | 204+ / -    |             | Ц |   |   |   |       |        |        | creamy grey-brown  |       |
| 1600  |             |             | Ш |   |   |   |       |        |        |  |       |
| 1700  |             |             | Ц |   |   |   |       |        |        | 1700-1800mm manganese mottling, yellow-brow, sandy texture |       |
| 1800  |             |             | Ц |   |   |   |       |        |        |  |       |
| 1900  |             |             | Ц |   | ! |   |       |        |        | dark orange-brown, very moist                              |       |
| 2000  | 163 / 32    |             | Ц |   |   |   |       |        |        |  |       |
| 2100  |             |             | Ц |   |   |   |       |        |        | EOB @ 2.0m   |       |
| 2200  |             |             | Ц | _ |   |   |       |        |        | Target Depth   |       |
| 2300  |             |             | Ц |   |   |   |       |        |        |  |       |
| 2400  |             |             | Ц |   |   |   |       |        |        |  |       |
| 2500  |             |             | Ц | _ |   |   |       |        |        |  |       |
| 2600  |             |             | Ц |   |   |   |       |        |        |  |       |
| 2700  |             |             | Ц | _ |   |   |       |        |        |  |       |
| 2800  |             |             | Н |   |   |   |       |        |        |  |       |
| 2900  |             |             | Ц | - |   |   |       |        |        |  |       |
| 3000  |             |             | Ц |   |   |   |       |        |        |  |       |
| 3100  |             |             | Ц | _ |   |   |       |        |        |  |       |
| 3200  |             |             | Ц |   |   |   |       |        |        |  |       |
| 3300  |             |             | Ц |   |   |   |       |        |        |  |       |
| 3400  |             |             | Ц |   |   |   |       |        |        |  |       |
| 3500  |             |             |   |   |   |   |       |        |        |  |       |

Notes: EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.     |            |            |
|-------------------------------|--------------|------------|------------|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-ARE | A-M-S15-01 |
| Tested by                     | Date         | Sheet No.  | Test Site  |
| GetGeo                        | 16/04/2021   | 26         | Lot 429    |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | 0 2 4 6 8 10 12 14 16                             | il Description Wat<br>Tab  |  |
|---------------|--------------------------|--------------------------|---|--|--|
| 100           |                          | 2                        | Cround  | , topsoil, gravels   |  |
| 200           |                          | 2                        | Results   |  |  |
| 300           | UTP                      | 3                        |   | range-brown, moist   |  |
| 400           |                          | 3                        | hard  |  |  |
| 500           |                          | 3                        | very stiff  |  |  |
| 600           | UTP                      | 5                        |   |  |  |
| 700           |                          | 5                        |   | and, yellow-brown, moist   |  |
| 800           |                          | 4                        |   |  |  |
| 900           | 204+ / -                 | 5                        |   |  |  |
| 1000          |                          | 6                        | clayey Silt, orange-brown, i                      | moist  |  |
| 1100          |                          | 5                        |   |  |  |
| 1200          | 204+ / -                 |                          |   |  |  |
| 1300          |                          |                          |   |  |  |
| 1400          | 400 / 44                 |                          | 1400-1700mm grey-brown                            |  |  |
| 1500          | 160 / 44                 |                          |   |  |  |
| 1600          |                          |                          | creamy-brown heavy orang                          | and the second s |  |
| 1700          |                          |                          | dicarry-brown, ficavy orang                       | ge-mottling  |  |
| 1800<br>1900  |                          |                          | minor mottling, very moist                        |  |  |
| 2000          | 204+ / -                 |                          |   |  |  |
| 2100          | 204+ / -                 |                          | E   | EOB @ 2.0m   |  |
| 2200          |                          |                          |   | arget Depth  |  |
| 2300          |                          |                          | <del>                                      </del> | arget Depth  |  |
| 2400          |                          |                          |   |  |  |
| 2500          |                          |                          |   |  |  |
| 2600          |                          |                          |   |  |  |
| 2700          |                          |                          |   |  |  |
| 2800          |                          |                          |   |  |  |
| 2900          |                          |                          |   |  |  |
| 3000          |                          |                          |   |  |  |
| 3100          |                          |                          |   |  |  |
| 3200          |                          |                          |   |  |  |
| 3300          |                          |                          |   |  |  |
| 3400          |                          |                          |   |  |  |
| 3500          |                          |                          |   |  |  |

| Notes: EOB = End Of Borehole | e UTP = Unable To Penetrate | UTE = Unable To Extract |
|------------------------------|-----------------------------|-------------------------|
|------------------------------|-----------------------------|-------------------------|

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|   | Project Name                  | Job Ref.     |                      |           |
|---|-------------------------------|--------------|----------------------|-----------|
| 1 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
|   | Tested by                     | Date         | Sheet No.            | Test Site |
|   | GetGeo                        | 16/04/2021   | 27                   | Lot 430   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                           | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 1                        | Good  | FILL, topsoil, gravels                     |                |
| 200           |                          | 2                        | ground Result   |  |                |
| 300           | UTP                      | 2                        |   | hard                                       |                |
| 400           |                          | 3                        |   | Engineered FILL, silt, mixed browns, moist |                |
| 500           |                          | 2                        |   | hand auger to 900mm                        |                |
| 600           | 163 / 53                 | 3                        |   |  |                |
| 700           |                          | 4                        |   |  |                |
| 800           |                          | 3                        |   | hard                                       |                |
| 900           | 204+ / -                 | 2                        |   |  |                |
| 1000          |                          | 3                        | N N   | SILT, minor clay, dark brown, moist        |                |
| 1100          |                          | 4                        |   |  |                |
| 1200          | 152 / 50                 |                          |   |  |                |
| 1300          |                          |                          |   |  |                |
| 1400          |                          |                          |   | some clay, brown                           |                |
| 1500          | 204+ / -                 |                          |   |  |                |
| 1600          |                          |                          |   |  |                |
| 1700          |                          |                          |   |  |                |
| 1800          |                          |                          |   | light-brown                                |                |
| 1900          |                          |                          |   |  |                |
| 2000          | 181 / 64                 |                          |   |  |                |
| 2100          |                          |                          |   | EOB @ 2.0m                                 |                |
| 2200          |                          |                          |   | Target Depth                               |                |
| 2300          |                          |                          |   |  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes: EOB = End Of Borehole | e UTP = Unable To Penetrate | UTE = Unable To Extract |
|------------------------------|-----------------------------|-------------------------|
|------------------------------|-----------------------------|-------------------------|

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|     | Project Name                  | Job Ref.     |                      |           |
|-----|-------------------------------|--------------|----------------------|-----------|
| 100 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
|     | Tested by                     | Date         | Sheet No.            | Test Site |
|     | GetGeo                        | 16/04/2021   | 28                   | Lot 431a  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description  | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 1                        |   | FILL, topsoil, gravels                                      |                |
| 200           |                          | 2                        | Good  |   |                |
| 300           | 204+ / -                 | 6                        | Ground  | dense   |                |
| 400           |                          | 3                        |   |   |                |
| 500           |                          | 4                        |   | Engineered FILL, silt, some sand, mixed creamy- light-brown |                |
| 600           | 204+ / -                 | 3                        |   | moist   |                |
| 700           |                          | 4                        |   |   |                |
| 800           |                          | 2                        |   | 700-900mm minor topsoil                                     |                |
| 900           | 204+ / -                 | 3                        |   |   |                |
| 1000          |                          | 2                        |   |   |                |
| 1100          |                          | 2                        |   | minor fine sand   |                |
| 1200          | 204+ / -                 |                          |   | very stiff  |                |
| 1300          |                          |                          |   | SILT, minor fine sand, creamy light-brown, moist            |                |
| 1400          |                          |                          |   |   |                |
| 1500          | UTP                      |                          |   |   |                |
| 1600          |                          |                          |   |   |                |
| 1700          |                          |                          |   |   |                |
| 1800          |                          |                          |   |   |                |
| 1900          |                          |                          |   | Silty SAND, creamy orange-brown, moist                      |                |
| 2000          |                          |                          |   | grey-brown, very moist                                      |                |
| 2100          |                          |                          |   | EOB @ 2.0m  |                |
| 2200          |                          |                          |   | Target Depth  |                |
| 2300          |                          |                          |   |   |                |
| 2400          |                          |                          |   |   |                |
| 2500          |                          |                          |   |   |                |
| 2600          |                          |                          |   |   |                |
| 2700          |                          |                          |   |   |                |
| 2800          |                          |                          |   |   |                |
| 2900          |                          |                          |   |   |                |
| 3000          |                          |                          |   |   |                |
| 3100          |                          |                          |   |   |                |
| 3200          |                          |                          |   |   |                |
| 3300          |                          |                          |   |   |                |
| 3400          |                          |                          |   |   |                |
| 3500          |                          |                          |   |   |                |

| Notes: | EOB = End Of Borehole                             | UTP = Unable To Penetrate       | UTE = Unable To Extract |
|--------|---|---------------------------------|-------------------------|
| 1      | Weather leading up to test was recent rain and co | ol weather. Fine during testing |                         |

- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.     |            |            |
|-------------------------------|--------------|------------|------------|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-ARE | A-M-S15-01 |
| Tested by                     | Date         | Sheet No.  | Test Site  |
| GetGeo                        | 16/04/2021   | 29         | Lot 431b   |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer<br>(Blows/100mm)<br>0 2 4 6 8 10 12 14 16 | Soil Description                                     | Water<br>Table |
|---------------|--------------------------|--------------------------|--|--|----------------|
| 100           |                          | 2                        | Good   | FILL, topsoil, gravels                               |                |
| 200           |                          | 2                        | Ground —— Result   |  |                |
| 300           | 166 / 76                 | 3                        | Rosuit   | very stiff   |                |
| 400           |                          | 3                        |  |  |                |
| 500           |                          | 4                        |  | Engineered FILL, silt, minor clay, dark orange-brown |                |
| 600           | 204+ / -                 | 3                        |  | moist  |                |
| 700           |                          | 3                        |  | minor angular gravels                                |                |
| 800           |                          | 4                        |  | minor topsoil  |                |
| 900           | 128 / 35                 | 3                        |  |  |                |
| 1000          |                          | 3                        |  |  |                |
| 1100          |                          | 2                        |  |  |                |
| 1200          | 204+ / -                 |                          |  |  |                |
| 1300          |                          |                          |  |  |                |
| 1400          |                          |                          |  |  |                |
| 1500          | UTP                      |                          |  | hard   |                |
| 1600          |                          |                          |  | Engineered FILL, silt, sand, some angular gravels    |                |
| 1700          |                          |                          |  | mixed dark-grey and grey-brown, moist                |                |
| 1800          |                          |                          |  |  |                |
| 1900          |                          |                          |  |  |                |
| 2000          | UTP                      |                          |  |  |                |
| 2100          |                          |                          |  |  |                |
| 2200          |                          |                          |  | CAND reines till ded men og med til                  |                |
| 2300          |                          |                          |  | SAND, minor silt, dark grey, very moist              |                |
| 2400<br>2500  |                          |                          |  | EOB @ 2400mm   |                |
| 2600          |                          |                          |  | EOB @ 240011111                                      |                |
| 2700          |                          |                          |  |  |                |
| 2800          |                          |                          |  |  |                |
| 2900          |                          |                          |  |  |                |
| 3000          |                          |                          |  |  |                |
| 3100          |                          |                          |  |  |                |
| 3200          |                          |                          |  |  |                |
| 3300          |                          |                          |  |  |                |
| 3400          |                          |                          |  |  |                |
| 3500          |                          |                          |  |  |                |

Notes: EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.     |                      |           |
|-------------------------------|--------------|----------------------|-----------|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
| Tested by                     | Date         | Sheet No.            | Test Site |
| GetGeo                        | 16/04/2021   | 30                   | Lot 432a  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                      | Water<br>Table |
|---------------|--------------------------|--------------------------|---|---|----------------|
| 100           |                          | 1                        | Good  |   |                |
| 200           |                          | 1                        | Ground  |   |                |
| 300           |                          | 1                        |   | FILL, topsoil, gravels                                |                |
| 400           |                          | 1                        |   |   |                |
| 500           |                          | 1                        |   | layer of gravels                                      |                |
| 600           | UTP                      | 2                        |   | medium dense to loose                                 |                |
| 700           |                          | 6                        |   |   |                |
| 800           |                          | 4                        |   | Engineered FILL, silt, sand, mixed light greys, moist |                |
| 900           | 204+ / -                 | 2                        |   |   |                |
| 1000          |                          | 3                        |   |   |                |
| 1100          |                          | 3                        |   |   |                |
| 1200          | 204+ / -                 |                          |   |   |                |
| 1300          |                          |                          |   |   |                |
| 1400          |                          |                          |   |   |                |
| 1500          |                          |                          |   |   |                |
| 1600          |                          | UTP                      |   |   |                |
| 1700          |                          |                          |   | Engineered FILL, sand, gravels, silt, some topsoil    |                |
| 1800          |                          |                          |   | dark brown, moist                                     |                |
| 1900          |                          | UTP                      |   |   |                |
| 2000          |                          |                          |   |   |                |
| 2100          |                          |                          |   | EOB @ 2.0m  |                |
| 2200          |                          |                          |   | Target Depth  |                |
| 2300          |                          |                          |   |   |                |
| 2400          |                          |                          |   |   |                |
| 2500          |                          |                          |   |   |                |
| 2600          |                          |                          |   |   |                |
| 2700          |                          |                          |   |   |                |
| 2800          |                          |                          |   |   |                |
| 2900          |                          |                          |   |   |                |
| 3000          |                          |                          |   |   |                |
| 3100          |                          |                          |   |   |                |
| 3200          |                          |                          |   |   |                |
| 3300          |                          |                          |   |   |                |
| 3400          |                          |                          |   |   |                |
| 3500          |                          |                          |   |   |                |

| Notes: EOB = End Of Borehole UTF | P = Unable To Penetrate | UTE = Unable To Extract |
|----------------------------------|-------------------------|-------------------------|
|----------------------------------|-------------------------|-------------------------|

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|      | Project Name                  | Job Ref.     |                      |           |
|------|-------------------------------|--------------|----------------------|-----------|
| 0.00 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
|      | Tested by                     | Date         | Sheet No.            | Test Site |
|      | GetGeo                        | 16/04/2021   | 31                   | Lot 432b  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer<br>(Blows/100mm)<br>0 2 4 6 8 10 12 14 16 | Soil Description Water Table |
|---------------|--------------------------|--------------------------|--|------------------------------|
| 100           |                          | 2                        |  | FILL, topsoil, gravels       |
| 200           |                          | 3                        | Good   |                              |
| 300           | 143 / 55                 | 5                        | Ground very stiff  |                              |
| 400           |                          | 6                        |  |                              |
| 500           |                          | 4                        | Engin  | eered FILL, silt, minor clay |
| 600           | 178 / 53                 | 4                        | dark bro   | wn dark orange-brown, moist  |
| 700           |                          | 3                        |  |                              |
| 800           |                          | 2                        |  |                              |
| 900           | 131 / 32                 | 2                        |  |                              |
| 1000          |                          | 2                        |  |                              |
| 1100          |                          | 2                        |  |                              |
| 1200          | 204+ / -                 |                          |  |                              |
| 1300          |                          |                          |  |                              |
| 1400          |                          |                          |  |                              |
| 1500          | UTP                      |                          |  |                              |
| 1600          |                          |                          |  |                              |
| 1700          |                          |                          | 1700-1800mm some   | topsoil                      |
| 1800          |                          |                          |  |                              |
| 1900          |                          |                          |  |                              |
| 2000          | 70 / 26                  |                          |  |                              |
| 2100          |                          |                          |  |                              |
| 2200          |                          |                          |  |                              |
| 2300          |                          |                          |  |                              |
| 2400          |                          |                          | Gravelly   | SAND, dark grey, very moist  |
| 2500          |                          |                          |  |                              |
| 2600          |                          |                          |  |                              |
| 2700          |                          |                          |  |                              |
| 2800          |                          |                          |  | EOB @ 2700mm                 |
| 2900          |                          |                          |  |                              |
| 3000          |                          |                          |  |                              |
| 3100          |                          |                          |  |                              |
| 3200          |                          |                          |  |                              |
| 3300          |                          |                          |  |                              |
| 3400          |                          |                          |  |                              |
| 3500          |                          |                          |  |                              |

Notes: EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



|     | Project Name                  | Job Ref.     |                      |           |
|-----|-------------------------------|--------------|----------------------|-----------|
| 100 | Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
|     | Tested by                     | Date         | Sheet No.            | Test Site |
|     | GetGeo                        | 16/04/2021   | 32                   | Lot 433a  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                                 | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 1                        | Good Ground   | FILL, respread topsoil, gravels                  |                |
| 200           |                          | 2                        |   |  |                |
| 300           |                          | 2                        | Result  | hard   |                |
| 400           |                          | 4                        |   | (engineer controlled) FILL, silt, sand, gravels  |                |
| 500           |                          | 5                        |   | mixed brown, moist                               |                |
| 600           |                          | 12                       |   |  |                |
| 700           |                          | UTP                      |   |  |                |
| 800           |                          |                          |   |  |                |
| 900           |                          |                          |   |  |                |
| 1000          |                          |                          |   |  |                |
| 1100          |                          |                          |   |  |                |
| 1200          | 163 / 44                 |                          |   |  |                |
| 1300          |                          |                          |   | very stiff                                       |                |
| 1400          |                          |                          |   | Sandy SILT, creamy light-brown, moist            |                |
| 1500          |                          |                          |   |  |                |
| 1600          |                          | 11                       |   |  |                |
| 1700          |                          | 14                       |   | Silty SAND. Light-brown, moist                   |                |
| 1800          |                          | UTP                      |   | gravelly Sand, minor silt, dark grey, very moist |                |
| 1900          |                          |                          |   |  |                |
| 2000          |                          |                          |   |  |                |
| 2100          |                          |                          |   | EOB @ 2.0m                                       |                |
| 2200          |                          |                          |   | Target Depth                                     |                |
| 2300          |                          |                          |   |  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

Notes: EOB = End Of Borehole UTP = Unable To Penetrate UTE = Unable To Extract

- 1 Weather leading up to test was recent rain and cool weather. Fine during testing
- 2 Ground water was not encountered during testing
- 3 Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- 4 Shear Vane records include Re-moulded values where possible
- 5 Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021



| Project Name                  | Job Ref.     |                      |           |
|-------------------------------|--------------|----------------------|-----------|
| Chedworth Properties, A<br>15 | rea M, Stage | 171738-AREA-M-S15-01 |           |
| Tested by                     | Date         | Sheet No.            | Test Site |
| GetGeo                        | 16/04/2021   | 33                   | Lot 433b  |

| Depth<br>(mm) | Undrained<br>Shear (kPa) | No of<br>blows<br>/100mm | Scala Penetrometer (Blows/100mm)  0 2 4 6 8 10 12 14 16 | Soil Description                           | Water<br>Table |
|---------------|--------------------------|--------------------------|---|--|----------------|
| 100           |                          | 1                        | Good<br>Ground  | FILL, topsoil, gravels                     |                |
| 200           |                          | 5                        |   |  |                |
| 300           |                          | 7                        |   |  |                |
| 400           |                          | 11                       |   |  |                |
| 500           |                          | 14                       |   | Engineered FILL, silt, sand, gravels       |                |
| 600           |                          | 8                        |   |  |                |
| 700           |                          | 15                       |   | mixed brown and orange-brown, moist        |                |
| 800           |                          | 21                       |   | minor topsoil                              |                |
| 900           |                          | UTP                      |   |  |                |
| 1000          |                          |                          |   |  |                |
| 1100          |                          |                          |   |  |                |
| 1200          |                          |                          |   |  |                |
| 1300          |                          |                          |   |  |                |
| 1400          |                          | UTP                      |   |  |                |
| 1500          |                          | 14                       |   |  |                |
| 1600          |                          | 18                       |   | Engineered FILL, sand, gravels, minor silt |                |
| 1700          |                          | 11                       |   | dark reddish brown, moist                  |                |
| 1800          |                          | 8                        |   |  |                |
| 1900          |                          | 17                       |   |  |                |
| 2000          |                          |                          |   |  |                |
| 2100          |                          |                          |   | EOB @ 2.0m                                 |                |
| 2200          |                          |                          |   | Target Depth                               |                |
| 2300          |                          |                          |   |  |                |
| 2400          |                          |                          |   |  |                |
| 2500          |                          |                          |   |  |                |
| 2600          |                          |                          |   |  |                |
| 2700          |                          |                          |   |  |                |
| 2800          |                          |                          |   |  |                |
| 2900          |                          |                          |   |  |                |
| 3000          |                          |                          |   |  |                |
| 3100          |                          |                          |   |  |                |
| 3200          |                          |                          |   |  |                |
| 3300          |                          |                          |   |  |                |
| 3400          |                          |                          |   |  |                |
| 3500          |                          |                          |   |  |                |

| Notes: | EOB = End Of Borehole  | UTP = Unable To Penetrate | UTE = Unable To Extract |  |
|--------|--|---------------------------|-------------------------|--|
| 1      | Weather leading up to test was recent rain and cool weather. Fine during testing |                           |                         |  |
| 2      | Ground water was not encountered during testing                                  |                           |                         |  |

- 3
- Shear Vane readings are converted readings, as per calibration Certificate. (Values are undrained shear strength)
- Shear Vane records include Re-moulded values where possible
- Shear Vane Serial No.: 2086 Exp. Date: 2/06/2021

Appendix V <u>Stormwater Management</u>

On-lot Water Efficiency Measures Lot Levels (Minimum Lot Levels)

# ON-LOT WATER EFFICIENCY MEASURES

# WATER SUPPLY AND WASTEWATER DISPOSAL

The efficiency of taps, showers and toilets contribute to how much water we use. A reduction in the use of potable water by each house directly relates to the amount of wastewater generated (i.e. reduced water use results in reduced wastewater generation). To reduce potable water demand and the amount of wastewater generated, as a minimum, each house is required to install low demand fittings for kitchen, bathroom and laundry facilities.

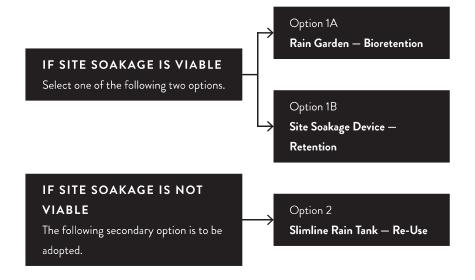
All household fittings are required to have a minimum 3 Star Rating.

## STORMWATER DISPOSAL

Each lot is required to adopt an on-lot stormwater efficiency measure to ensure that surface water runoff is appropriately managed.

First, the suitability of the site for soakage needs to be assessed. Soakage is the process of helping stormwater soak into the ground using specially designed soakage devices. Soakage allows for the infiltration of stormwater into the soil which recharges the groundwater table below.

A site infiltration test is mandatory for all lots to confirm the in-situ soils are capable of achieving the minimum percolation rates. Refer to Hamilton City Council 'Three Waters Practice Note HCC 03: Soakage' for guidance on soil testing.



\* Other alternative stormwater efficiency options will also be considered subject to approval by Greenhill Park and Hamilton City Council.

The selected option is to be designed by a suitably qualified Engineer and approved by the Hamilton City Council Building Control Unit. Refer to page 33 to 36 of these guidelines for further information of the design requirements for Options 1A, 1B & 2.

Hamilton City Council also encourages the installation of multiple stormwater efficiency options within a property, where practical.

### Option 1A

# RAIN GARDEN - BIORETENTION

Design to provide minimum 'live storage' retention for runoff from a 10mm rainfall event for trafficked hardstand areas.

The following table outlines indicative storage volumes and estimated rain garden areas for a range of lot sizes.

| Lot Area (m²) | Live Storage<br>Volume<br>(m³) | Rain Garden<br>Area<br>(m²) |
|---------------|--------------------------------|-----------------------------|
| 300           | 0.8                            | 4.1                         |
| 350           | 0.9                            | 4.7                         |
| 400           | 1.1                            | 5.4                         |
| 450           | 1.2                            | 6.1                         |
| 500           | 1.4                            | 6.8                         |
| 550           | 1.5                            | 7.4                         |
|               |                                |                             |

Based on hardstand coverage equal to 30% of total lot area

# **KEY REQUIREMENTS**

- Rain garden to be located to capture runoff from main hardstand areas within the lot (as much as practical).
- Maximum live storage depth to be 300mm (safety requirements to be considered when device is at maximum storage capacity).
- A channel and grate to be installed across vehicle entrance to capture hardstand run off and direct it to rain garden.

- $\cdot$  Rain garden to be integrated with garden design (refer to page 34 for details).
- · Overflow to be connected to stormwater connection provided.

#### FOR MORE INFORMATION

Refer to Hamilton City Council 'Three Waters Practice Note - HCC04 - Bio-retention (Rain Gardens)' for information on typical design requirements.

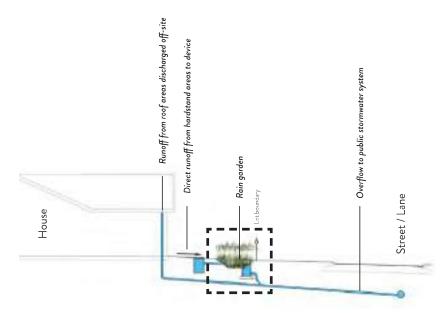


DIAGRAM -7Rain Garden - Bioretention

# GREENHILL PARK RAIN GARDEN PLANT LIST

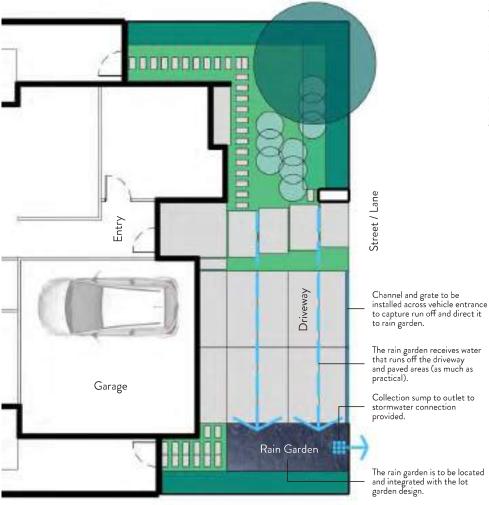
Native plants are encouraged, but other exotic plant species which complement your front yard planting design could be used. Deciduous plants should not be used as their leaf-fall can block the outflow.

The plants selected need to —

- $\cdot$  Be able to tolerate short periods of inundation and longer dry periods
- · Be perennial rather than annual
- $\cdot$  Have deep fibrous root systems and a spreading growth form
- · Form a dense, weed-suppressing cover

| Botanical Name        | Common Name      |
|-----------------------|------------------|
| Apodasmia similis     | oioi             |
| Blechnum penna-marina | alpine hard fern |
| Libertia ixioides     | mikoikoi         |
| Carex dipsacea        | teasel sedge     |
| Carex secta           | purei            |
| Carex virgata         | pukio            |
| Dianella nigra        | turutu           |
| Libertia grandiflora  | mikoikoi         |
| Lobelia angulata      | panakenake       |
| Pimelea prostrata     | pinatoro         |

All rain garden plants to be a minimum grade of Pb 8 at the time of planting. \* Other plant species can be approved at the discretion of the Design Review Panel.



 ${\sf DIAGRAM} \ - 8$  Rain Garden Typical Location

# Option 1B

# SITE SOAKAGE DEVICE - RETENTION

Design to provide minimum 'live storage' retention for runoff from a 10mm rainfall event for roof and trafficked hardstand areas.

The following table outlines indicative storage volumes for a range of lot sizes.

| Lot Area (m²) | Live Storage<br>Volume<br>(m³) |
|---------------|--------------------------------|
| 300           | 2.2                            |
| 350           | 2.6                            |
| 400           | 3.0                            |
| 450           | 3.4                            |
| 500           | 3.7                            |
| 550           | 4.1                            |

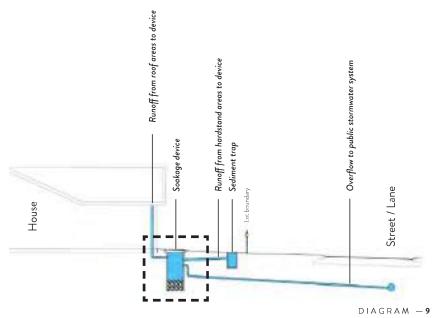
Based on 80% site coverage (roof and hardstand areas)

# KEY REQUIREMENTS

- Soakage device(s) to be located to capture runoff from roof downpipes and hardstand areas (as much as practical).
- A channel and grate to be installed across vehicle entrance to capture hardstand run off and direct it to soakage device.
- $\cdot$  Soakage device to be integrated with garden design.
- · Overflow to be connected to stormwater connection provided.

#### FOR MORE INFORMATION

Refer to Hamilton City Council 'Three Waters Practice Note HCC 03: Soakage' for information on typical design requirements.



Site Soakage Device — Retention

#### Option 2

#### SLIMLINE RAIN TANK - RE-USE

The slimline rain tank is to be connected to a separate grey-water household re-use system with a minimum capacity of 5,000L.

#### **KEY REQUIREMENTS**

- Rain tank to be connected into a fully integrated grey-water re-use system within the main dwelling with connections to toilets, laundry and irrigation systems.
- All roof run-off is to be captured by rain tanks and available for re-use. Run-off from hardstand areas (driveways and paving) can be discharged directly into stormwater connection provided.
- A maximum of two (2) tanks may be used to achieve the required storage and align with downpipe locations.
- $\cdot$  Overflow to be connected to stormwater connection provided.

#### LOCATION AND INSTALLATION

Slimline rain tanks should be placed in the rear or side yard of the lot as unobtrusively as possible. Care should be taken, where tanks are placed next to the house, to ensure they are placed adjacent to a blank wall and not infront of a window.

#### **COLOUR**

The colour of all rain tanks should match the colour of the homes exterior wall cladding adjacent to the tank.

\* Colours that do not match but are complementary to the design and materials of the house can be approved at the discretion of the Design Review Panel.

#### FOR MORE INFORMATION

Refer to Hamilton City Council Three Waters Practice Note — HCC02 —Rainwater Reuse Systems (Rain Tanks)' for information on design requirements.

#### APPROVED RAIN TANK PRODUCTS

Tanksalot® Slimline Tank www.tanksalot.co.nz

ThinTanks™ NZ Slimline Rainwater Poly Tank www.thintanks.co.nz

\* Other rain tank products will also be considered subject to approval by Greenhill Park.

Note below ground tanks (sealed tanks only) are also considered an appropriate design option and are pre-approved for use on this subdivision.

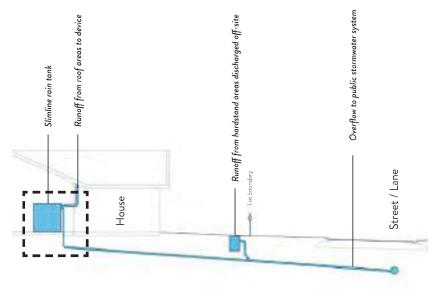


DIAGRAM — 10

Slimline Rain Tank — Re-use

| Lot | Stage | Minimum Lot<br>Level (mRL) | 1% AEP<br>Flood Level<br>(mRL) | Flood Level<br>Reference | Calculated Freeboard<br>(to Lot Level) |
|-----|-------|----------------------------|--------------------------------|--------------------------|--|
| 388 | 14    | 39.428                     | 38.00                          | Swale 1D                 | 1.428                                  |
| 389 | 14    | 39.316                     | 38.00                          | Swale 1D                 | 1.316                                  |
| 390 | 14    | 39.191                     | 38.00                          | Swale 1D                 | 1.191                                  |
| 391 | 14    | 39.419                     | 38.00                          | Swale 1D                 | 1.419                                  |
| 392 | 14    | 39.409                     | 38.00                          | Swale 1D                 | 1.409                                  |
| 393 | 14    | 39.325                     | 36.40                          | Swale 3A                 | 2.925                                  |
| 394 | 14    | 39.214                     | 36.40                          | Swale 3A                 | 2.814                                  |
| 395 | 14    | 39.130                     | 36.40                          | Swale 3A                 | 2.730                                  |
| 396 | 15    | 39.127                     | 36.40                          | Swale 3A                 | 2.727                                  |
| 397 | 15    | 39.222                     | 36.40                          | Swale 3A                 | 2.822                                  |
| 398 | 15    | 39.318                     | 36.40                          | Swale 3A                 | 2.918                                  |
| 399 | 15    | 39.429                     | 38.00                          | Swale 1D                 | 1.429                                  |
| 400 | 15    | 39.414                     | 38.00                          | Swale 1D                 | 1.414                                  |
| 401 | 15    | 38.923                     | 38.00                          | Swale 1D                 | 0.923                                  |
| 402 | 15    | 39.946                     | 38.00                          | Swale 1D                 | 1.946                                  |
| 403 | 15    | 39.233                     | 38.00                          | Swale 1D                 | 1.233                                  |
| 404 | 15    | 39.309                     | 38.00                          | Swale 1D                 | 1.309                                  |
| 405 | 15    | 39.278                     | 38.00                          | Swale 1D                 | 1.278                                  |
| 406 | 15    | 38.925                     | 38.00                          | Swale 1D                 | 0.925                                  |
| 407 | 15    | 39.339                     | 38.00                          | Swale 1D                 | 1.339                                  |
| 408 | 15    | 39.607                     | 38.00                          | Swale 1D                 | 1.607                                  |
| 409 | 15    | 39.358                     | 36.46                          | Swale 3B                 | 2.898                                  |
| 410 | 15    | 39.288                     | 36.46                          | Swale 3B                 | 2.828                                  |
| 411 | 15    | 39.215                     | 36.46                          | Swale 3B                 | 2.755                                  |
| 412 | 15    | 39.138                     | 36.46                          | Swale 3B                 | 2.678                                  |
| 413 | 15    | 39.057                     | 36.46                          | Swale 3B                 | 2.597                                  |
| 414 | 15    | 39.151                     | 36.46                          | Swale 3B                 | 2.691                                  |
| 415 | 15    | 39.231                     | 36.46                          | Swale 3B                 | 2.771                                  |
| 416 | 15    | 39.311                     | 36.46                          | Swale 3B                 | 2.851                                  |
| 417 | 15    | 39.391                     | 36.46                          | Swale 3B                 | 2.931                                  |
| 418 | 15    | 39.471                     | 36.46                          | Swale 3B                 | 3.011                                  |
| 419 | 15    | 39.544                     | 38.00                          | Swale 1D                 | 1.544                                  |
| 420 | 15    | 39.811                     | 38.00                          | Swale 1D                 | 1.811                                  |
| 421 | 15    | 39.930                     | 35.46                          | Swale 3B                 | 4.470                                  |
| 422 | 15    | 39.825                     | 36.46                          | Swale 3B                 | 3.365                                  |
| 423 | 15    | 39.741                     | 36.46                          | Swale 3B                 | 3.281                                  |
| 424 | 15    | 39.657                     | 37.46                          | Swale 3B                 | 2.197                                  |
| 425 | 15    | 39.571                     | 38.46                          | Swale 3B                 | 1.111                                  |
| 426 | 15    | 40.020                     | 38.00                          | Swale 1D                 | 2.020                                  |
| 427 | 15    | 39.908                     | 38.00                          | Swale 1D                 | 1.908                                  |
| 428 | 15    | 39.748                     | 38.00                          | Swale 1D                 | 1.748                                  |



| Lot | Stage | Minimum Lot<br>Level (mRL) | 1% AEP<br>Flood Level<br>(mRL) | Flood Level<br>Reference | Calculated Freeboard<br>(to Lot Level) |
|-----|-------|----------------------------|--------------------------------|--------------------------|--|
| 429 | 15    | 39.696                     | 38.00                          | Swale 1D                 | 1.696                                  |
| 430 | 15    | 39.589                     | 38.00                          | Swale 1D                 | 1.589                                  |
| 431 | 15    | 39.472                     | 38.00                          | Swale 1D                 | 1.472                                  |
| 432 | 15    | 39.320                     | 38.00                          | Swale 1D                 | 1.320                                  |
| 433 | 15    | 39.144                     | 38.00                          | Swale 1D                 | 1.144                                  |



### **APPENDIX 2**

Reference: 30378

### **Roading QA Documentation**

### Road Subgrade - 2(a)

- Drawing 21879-M-12-BR1 (in lieu of strings)
- Clegg Hammer Tests

### **Road Basecourse 2(b)**

- Nuclear Densometer Results
- Benkelman Beam Test Results
- Basecourse Strings
- GAP40 Material Tests

### Surfacing & RAMM Data 2(c)

- HCC pavement RAMM data
- Surfacing RAMM data

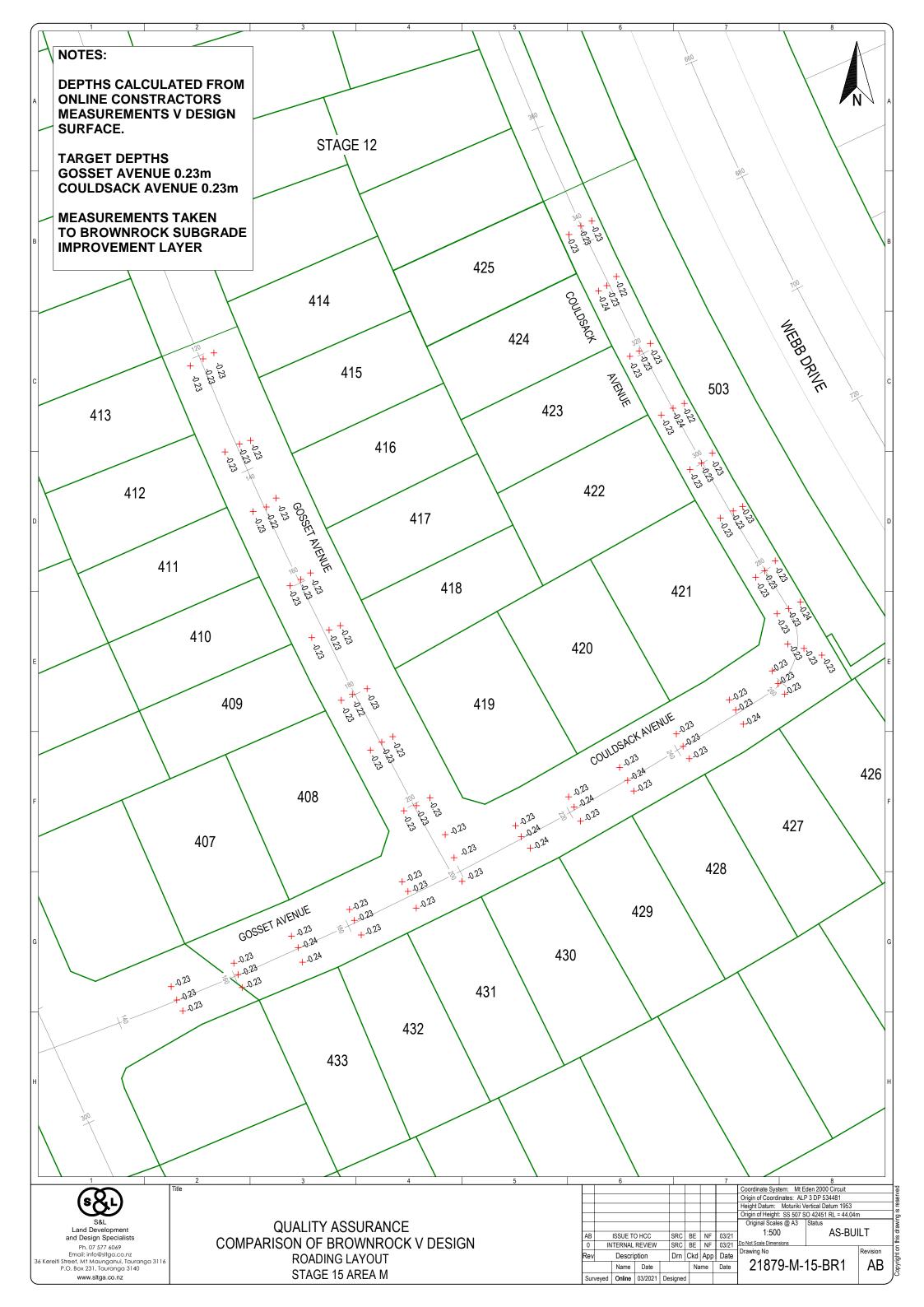
### **APPENDIX 2(a)**

Reference: 30378

### **Roading QA Documentation**

### **Road Subgrade**

- Drawing 21879-M-15-BR1 (in lieu of strings)
- Clegg Hammer Tests





Ph: 07 853 9422

| Contract         |                | GHP  | Job No.                                 |   |
|------------------|----------------|--|---|---|
| Site/Chainage    | Road 2         | 22 Stage 15                                      | Date                                    | 27/01/021                               |
|                  |                |  | Recorded by                             | Bikal Baniya                            |
| Material         | Brown          | n Rock SIL                                       |   | -                                       |
|                  |                |  |   |   |
|                  | 1m             |  | 1m from kerb -                          |   |
| Chn              | from<br>kerb - | Centre Line                                      | Right                                   | Notes                                   |
| 160              |                |  | 23                                      |   |
| 170              |                | 27   |   |   |
| 180              | 34             |  |   |   |
| 190              |                |  | 31                                      |   |
| 200              |                | 24   |   |   |
| 210              | 22             |  |   |   |
| 220              |                |  | 31                                      |   |
| 230              |                | 27   |   |   |
| 240              | 24             |  |   |   |
| 250              |                |  | 35                                      |   |
| 260              |                | 30   |   |   |
| 270              | 29             |  |   |   |
|                  |                |  |   |   |
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|                  |                | <del>                                     </del> |   |   |
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|                  |                |  |   |   |
|                  |                | <del>                                     </del> |   |   |
|                  |                |  |   |   |
| Source of conver | sion: Infe     | rred CBR%=0                                      | .07(Impact Value)                       | ) <sup>2</sup> /100                     |
|                  | <i>510</i>     | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,          | , | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Remarks          |                |  |   |   |
| •                |                |  |   |   |



Ph: 07 853 9422

| Contract       | GHI                    | Ρ              | Job No.                       |                     |
|----------------|------------------------|----------------|-------------------------------|---------------------|
| Site/Chainage  | Road 37 S              | Stage 15       | Date                          | 22/01/021           |
| Material       | Brown Ro               | ock SIL        | Recorded by                   | Bikal Baniya        |
| Chn            | 1m from<br>kerb - Left | Centre<br>Line | 1m from kerb -<br>Right       | Notes               |
| 270            | 30                     |                |                               |                     |
| 280            |                        |                | 25                            |                     |
| 290            | 22                     |                |                               |                     |
| 300            |                        |                | 29                            |                     |
| 310            | 27                     |                |                               |                     |
| 320            |                        |                | 39                            |                     |
| 330            | 23                     |                |                               |                     |
| 340            |                        |                | 36                            |                     |
|                |                        |                |                               |                     |
|                |                        |                |                               |                     |
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|                |                        |                |                               |                     |
|                |                        |                |                               |                     |
|                |                        |                |                               |                     |
| Source of conv | rersion: Inferre       | d CBR%=0       | .07(Impact Value <sub>)</sub> | ) <sup>2</sup> /100 |
| -              |                        |                |                               |                     |
|                |                        |                |                               |                     |



Ph: 07 853 9422

| Contract          |                      | GHP           | Job No.                        |              |
|-------------------|----------------------|---------------|--------------------------------|--------------|
| Site/Chainage     | Road                 | 38 Stage 15   | _Date                          | 22/01/021    |
| Material          | Brow                 | n Rock SIL    | Recorded by _                  | Bikal Baniya |
| Chn               | 1m<br>from<br>kerb - | Centre Line   | 1m from kerb -<br>Right        | Notes        |
| 130               | 27                   |               |                                |              |
| 140               |                      |               | 24                             |              |
| 150               | 21                   |               |                                |              |
| 160               |                      |               | 31                             |              |
| 170               | 27                   |               |                                |              |
| 180               |                      |               | 26                             |              |
| 190               | 20                   |               |                                |              |
| 200               |                      |               | 33                             |              |
|                   |                      |               |                                |              |
|                   |                      |               |                                |              |
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|                   |                      |               |                                |              |
|                   |                      |               |                                |              |
|                   |                      |               |                                |              |
|                   |                      |               |                                |              |
| Source of convers | sion: Inferre        | ed CBR%=0.07( | (Impact Value) <sup>2</sup> /1 | 00           |
| Remarks           |                      |               |                                |              |
|                   |                      |               |                                |              |

### **APPENDIX 2(b)**

Reference: 30378

### **Roading QA Documentation**

### **Road Basecourse**

- Nuclear Densometer Results
- Benkelman Beam Test Results
- Basecourse Strings
- GAP40 Material Tests
- S&L/HCC Correspondence regarding kerb and pavement changes





### **CONSTRUCTION DIMENSIONS**

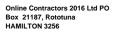
| Site         Date         15/03/021           Stage         Stage 15 Road 22         Recorded by         Bikal Baniya           Material         AP40         Subgrade TNZ F/1 tolerance         -20 mm         0 mm           Subbase TNZ B/2 tolerance         -25 mm         5 mm   |             |     |             |       |             |                  |                    |              |             |
|--|-------------|-----|-------------|-------|-------------|------------------|--------------------|--------------|-------------|
| Stage   Stage 15 Road 22   Recorded by   Bikal Baniya  | Contract    |     | GHP         |       |             | Job No.          |                    |              |             |
| Stage   Stage 15 Road 22   Recorded by   Bikal Baniya   Material   AP40   Subgrade TNZ F/1 tolerance   -20 mm   0 mm   | Site        |     |             |       |             |                  |                    |              |             |
| Subgrade TNZ F/1 tolerance   -20 mm   0 mm   |             |     | Stage 15 Ro | ad 22 | Re          |                  |                    |              |             |
| String lift   200 mm   Basecourse TNZ B/2 tolerance   -25 mm   5 mm  | _           |     |             | uu    |             |                  |                    |              |             |
| String lift   200 mm   Basecourse TNZ B/2 tol.   -5 mm   15 mm   | Material    | _   | AP40        |       |             | Subgrade         | TNZ F/1 tolerance  | -20 mm       | 0 mm        |
| Depth below stringline level   Centre   Right   Edge   Chn.   Edge   6m   4m   2m   0m   0m   0m   2m   4m   6m   Edge   Chn.   Centre   Right   Chn.   Centre   Ce |             |     |             |       |             | Subbase          | TNZ B/2 tolerance  | -25 mm       | <u>5</u> mm |
| Chn.         Edge 6m         4m         2m         Chn.         Right 0m         2m         4m         Edge 6m           160         230         240         240         240         240         240         220         245         230         235         235         235         235         240         235         235         235         240         235         235         240 <t< td=""><td>String lift</td><td>200</td><td>mm</td><td></td><td></td><td>Based</td><td>ourse TNZ B/2 tol.</td><td><u>-5</u> mm</td><td>15 mm</td></t<>  | String lift | 200 | mm          |       |             | Based            | ourse TNZ B/2 tol. | <u>-5</u> mm | 15 mm       |
| Chn.         Edge 6m         4m         2m         Left 0m         Right 0m         2m         4m         Edge 6m           160         230         240         240         240         240         240         240         235         235         235         235         235         235         235         235         240         235         235         240         235         235         240  |             |     |             |       | Depth below | stringline level |                    |              |             |
| Chn.         6m         4m         2m         0m         0m         2m         4m         6m           160         230         230         230         230         230         230         225         230         225         230         230         230         230         230         230         230         230         230         230         240         240         240         240         240         240         235         235         235         235         235         235         235         235         240         235         235         240         235         235         240   |             |     | Left        | 1     | C           | entre            |                    | Right        |             |
| 160         230         230         230           170         235         230         225           180         230         230         230           210         240         240         240           220         245         230         235           230         245         240         235           240         240         235         235           250         235         235         240  |             |     | 4           | 2     |             |                  | 2                  | 4            |             |
| 170     235     230     225       180     230     230     230       210     240     240     240       220     245     230     235       230     245     240     235       240     240     235     235       250     235     235     240  |             | 6M  | 4m          | +     |             | Um               |                    | 4m           | 6m          |
| 180         230         230         230           210         240         240         240           220         245         230         235           230         245         240         235           240         240         235         235           250         235         235         240  |             |     |             |       |             |                  |                    |              |             |
| 210         240         240         240           220         245         230         235           230         245         240         235           240         240         235         235           250         235         235         240  |             |     |             |       |             |                  |                    |              |             |
| 220     245     230     235       230     245     240     235       240     240     235     235       250     235     235     240  |             |     |             |       |             |                  |                    |              |             |
| 230         245         240         235           240         240         235         235           250         235         235         240  |             |     |             |       |             |                  |                    |              |             |
| 240         240         235         235           250         235         235         240  |             |     |             |       |             |                  |                    |              |             |
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|  | 260         |     |             | 240   | 235         |                  | 230                |              |             |
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#### **CONSTRUCTION DIMENSIONS**

| Contract    |      | GHP          |            |             | Job No.          |                     |               |              | -      |
|-------------|------|--------------|------------|-------------|------------------|---------------------|---------------|--------------|--------|
| Site        |      |              |            |             | Date             | 15/0                | 3/021         |              | 4      |
| Stage       |      | Stage 15 Roa | ad 37      | Re          | corded by        | Bikal               | Baniya        |              | _      |
| Material    |      | AP 40        |            |             | Subgrade         | e TNZ F/1 tolerance | <u>-20</u> mm | 0 mm         |        |
|             |      |              |            |             | Subbase          | e TNZ B/2 tolerance | <u>-25</u> mm | <u>5</u> mm  |        |
| String lift | 200  | mm           |            |             | Base             | course TNZ B/2 tol. | <u>-5</u> mm  | <u>15</u> mm |        |
|             |      |              |            | Depth below | stringline level |                     |               |              |        |
|             |      | Left         | •          |             | entre            |                     | Right         | i            |        |
|             | Edge |              |            | Left        | Right            |                     |               | Edge         | Offset |
| Chn.        | 6m   | 4m           | 2m         | 0m          | 0m               | 2m                  | 4m            | 6m           | =      |
| 280         |      |              | 240<br>240 | 230<br>230  |                  | 230<br>235          |               |              | -      |
| 290<br>300  |      |              | 235        | 230         |                  | 235                 |               |              | -      |
| 310         |      |              | 235        | 235         |                  | 235                 |               |              | -      |
| 320         |      |              | 230        | 230         |                  | 235                 |               |              | -      |
| 330         |      |              | 235        | 230         |                  | 230                 |               |              |        |
| 340         |      |              | 230        | 230         |                  | 230                 |               |              |        |
| 340         |      |              | 230        | 230         |                  | 230                 |               |              |        |
|             |      |              |            |             |                  |                     |               |              |        |
|             |      |              |            |             |                  |                     |               |              | -      |
|             |      |              |            |             |                  |                     |               |              |        |
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|             |      |              |            |             |                  |                     |               |              |        |
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|             |      |              |            |             |                  |                     |               |              |        |





|                 |      |              | CONSTR | UCTION | DIMENSIO         | <u>NS</u>          |          |         |       |
|-----------------|------|--------------|--------|--------|------------------|--------------------|----------|---------|-------|
| Contract        |      | GHP          |        |        | Job No.          |                    |          |         |       |
| Site            |      |              |        |        |                  | 15/0               |          |         |       |
| Stage           |      | Stage 15 Roa | nd 38  | Re     | corded by        |                    |          |         |       |
| <b>Material</b> |      | AP40         |        |        |                  |                    | e -20 mm | 0 mm    |       |
|                 |      |              |        |        | _                |                    | e -25 mm |         |       |
| String lift     | 200  | mm           |        |        |                  | course TNZ B/2 tol |          | 15 mm   |       |
| ournig int      |      | -            |        |        |                  | 000100 TN2 B/2 to  | <u>_</u> | <u></u> |       |
|                 |      |              |        |        | stringline level |                    |          |         |       |
|                 | Edge | Left<br>I    | İ      | Left   | entre<br>Right   |                    | Right    | Edge    | Offse |
| Chn.            | 6m   | 4m           | 2m     | 0m     | 0m               | 2m                 | 4m       | 6m      | 0.100 |
| 200             |      |              | 240    | 240    |                  | 240                |          |         | 1     |
| 190             |      |              | 235    | 230    |                  | 230                |          |         | 1     |
| 180             |      |              | 230    | 230    |                  | 230                |          |         |       |
| 170             |      |              | 230    | 230    |                  | 230                |          |         |       |
| 160             |      |              | 235    | 235    |                  | 230                |          |         |       |
| 150             |      |              | 230    | 230    |                  | 230                |          |         |       |
| 140             |      |              | 230    | 230    |                  | 230                |          |         |       |
| 130             |      |              | 230    | 225    |                  | 230                |          |         | 1     |
|                 |      |              |        |        |                  |                    |          |         | 4     |
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|                 |      |              |        |        |                  |                    |          |         |       |



Ph: 07 853 9422

| Contract          |                        | SHP          | _Job No.                     |                |
|-------------------|------------------------|--------------|------------------------------|----------------|
| Site/Chainage     | Road 22                | 2 Stage 15   | Date                         | 12/03/021      |
|                   |                        |              | Recorded by                  | Bikal Baniya   |
| Material          | A                      | P 40         | -                            | Billing Burnyu |
|                   |                        |              |                              |                |
| Chn               | 1m from<br>kerb - Left | Centre Line  | 1m from kerb -<br>Right      | Notes          |
| 160               | 51                     |              |                              |                |
| 170               |                        | 59           |                              |                |
| 180               |                        |              | 43                           |                |
| 210               | 48                     |              |                              |                |
| 220               |                        | 49           |                              |                |
| 230               |                        |              | 53                           |                |
| 240               | 56                     |              |                              |                |
| 250               |                        | 47           |                              |                |
| 260               |                        |              | 42                           |                |
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|                   |                        |              |                              |                |
|                   |                        |              |                              |                |
| Source of convers | ion: Inferred C        | BR%=0.07(Imp | act Value) <sup>2</sup> /100 |                |
|                   |                        |              |                              |                |



Ph: 07 853 9422

| ite/Chainage     | Road 37                | Stage 15                 | Date                          | 12/03/021    |
|------------------|------------------------|--------------------------|-------------------------------|--------------|
| aterial          | AP                     | 40                       | Recorded by                   | Bikal Baniya |
| Chn              | 1m from<br>kerb - Left | Centre Line              | 1m from kerb -<br>Right       | Notes        |
| 280              | 47                     |                          |                               |              |
| 290              |                        | 54                       |                               |              |
| 300              |                        |                          | 53                            |              |
| 310              | 42                     |                          |                               |              |
| 320              |                        | 58                       |                               |              |
| 330              |                        |                          | 49                            |              |
| 340              | 46                     |                          |                               |              |
|                  |                        |                          |                               |              |
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|                  |                        |                          |                               |              |
|                  |                        |                          |                               |              |
| ource of convers | sion: Inferred CE      | 3R%=0.07(Im <sub>l</sub> | pact Value) <sup>2</sup> /100 |              |



P O Box 21187, Rototuna Hamilton, 3256

Email: Todd@onlinecontractors.co.nz

Ph: 07 853 9422

| Contract          | G                      | HP           | Job No.  |              |
|-------------------|------------------------|--------------|--|--------------|
| Site/Chainage     | Road 38                | 3 Stage 15   | _Date  | 12/03/021    |
|                   |                        |              | Recorded by                                    | Bikal Baniya |
| Material          | AP                     | P 40         | · ·  |              |
| Chn               | 1m from<br>kerb - Left | Centre Line  | 1m from kerb<br>- Right                        | Notes        |
| 200               | 55                     |              |  |              |
| 190               |                        | 44           |  |              |
| 180               |                        |              | 57   |              |
| 170               | 50                     |              |  |              |
| 160               |                        | 42           |  |              |
| 150               |                        |              | 47   |              |
| 140               | 56                     |              |  |              |
| 130               |                        | 48           |  |              |
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|                   | 1                      | <u>I</u>     | <u>l                                      </u> | L            |
| Source of convers | sion: Inferred (       | CBR%=0.07(Ir | mpact Value) <sup>2</sup> /1                   | 100          |
|                   |                        |              |  |              |



Greenhill Park Project

Road 22 cocation:

Online Contractors Ltd Online Contractors Ltd Contractor: Cllent:

15/03/21 d Tait Date tested Tested by:

GAP40 ex Stevensons Tauhel Sample description:

33576 2.73 Nuclear densometer no: Solid density (tested) :

ES. t/m/

222

Max dry density (tested):

8 7.5 Opt. water content (tested) :

2-68015.00 Lab Ref No: Project No :

HA7050 1 Road 22 Client Ref No :

|   | 12  | 270   | RHS | B/S              | 226          | 215            | โก่          | 97  | 52        |
|---|-----|-------|-----|------------------|--------------|----------------|--------------|-----|-----------|
|   | TI. | 260   | SHI | 8/8              | 2.27         | 2.18           | 4,4          | 806 | 67        |
|   | 10  | 250   | RHS | 8/2              | 227          | 236            | 4.7          | 97  | 97        |
|   | 65  | 240   | CHS | BAS              | 228          | 2.17           | 223          | 98  | CC        |
|   | 03  | 230   | SHS | 8/8              | 226          | 215            | 6.9          | 25  | 200       |
| 1 | 7   | 220   | CHS | B/5              | 2.31         | 2.19           | Si.          | 66  | 00        |
|   | 9   | 210   | SHS | B/S              | 2.32         | 220            | NG<br>NG     | 66  | 63        |
|   |     | 200   |     | -                |              | ncre           |              |     |           |
|   | ın  | 188   | SH1 | B/5              | 2.26         | 2.17           | 4,5          | 98  | 67        |
|   | a.  | 180   | RHS | BAS              | 226          | 216            | 4.7          | 26  | 2.03      |
|   | 19  | 170   | CHS | B/S              | 228          | 2.17           | 6.4          | 93  | 63        |
|   | 2   | 160   | SHS | 8/8              | 2.29         | 2.18           | N,           | 86  | 6.3       |
|   | 1   | 150   | SHI | 8/2              | 2.28         | 2.19           | 4,0          | 01  | 77        |
|   | per | ition |     | Probe Depth (mm) | nsity (t/m²) | Sensity (t/m³) | Content (96) | L   | ation and |

% Saturation

Water Content (%)

% of MDD

Dry Density (t/m²)

Oven Corrected Test Results

Max dry density from 1 HA6289/2 Sept 2020 (WSP Lab) Notes nsitu Density 1 NZS 4407 ; 2015, Test 4.3 for Backscatter Mode Test Methods

IANZ Approved Signatory

Designation: Date:

16/03/21

Date reported

Laboratory Manager 16/03/21 Telephone +64.7 856.2870

Website www.wsp.com/mz

Hamilton (Fox St) PF-LASS-DSP (TVD7/2020)

Quality Management Systems Certified to ISO 9001

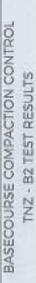
Private Bag 3057, Walkato Mail Centre, 3240, Hamilton, New Zesland 4 Fox Street

Page 1 of 1

All tusts reported herein have been performed in accordance with the laboratory's scape of accreditation.

SCINEROS

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Greenhill Park Road 37 ocation: Project

Online Contractors Ltd Online Contractors Ltd

Client

G Talt Contractor Tested by:

15/03/21

Date tested:

GAP40 ex Stevensons Tauhei Sample description :

33576 2.73 Nuclear densometer no Solid density (tested):

Z/M/2 L/m/s

222

Max dry density (tested):

\* Opt. water content (tested) :

2-68015.00 HA7050 2 Road 37 Client Ref No: Lab Ref No: Project No:

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|--|-----|-----|-----|-----|------|------|-----|-----|------|
| NUCLEAR DELISORHERS (est Resours   | 7   | 220 | RHS | 8/8 | 2.31 | 2.20 | 155 | 66  | 0010 |
| Derisdriie   | ۵   | 230 | SHT | B/S | 2.26 | 2.17 | 42  | 86  | 45   |
| Bacone   | so. | 240 | RHS | B/S | 2.34 | 2.25 | 5.0 | 100 | 19   |
|  | 7   | 250 | THS | B/S | 222  | 2.13 | 4.4 | 96  | 69   |
|  | 10  | 250 | SEE | B/S | 2.29 | 2,18 | 5.2 | 98  | 28   |
| 200  | 2   | 270 | CHS | B/S | 224  | 2,16 | F#  | 26  | 47   |
|  | 1   | 280 | SHS | 8/8 | 227  | 2.18 | 4.2 | 98  | 57   |

| Oven Corrected Test Results | 15/m <sup>2</sup> ). | ontent (%) | ua |
|-----------------------------|----------------------|------------|----|
|                             |                      |            |    |
|                             | F                    |            |    |

IANZ Approved Signatory

Designation:

Date

16/03/27

Date reported

Laboratory Manager 15/03/21

Private Bag 3057, Walkato Mail Centre, 3240, Hamilton, New Zealand

Quality Management Systems Certified to ISO 9001

Hamilton (Fox St.)

WSP P

PF-LAS-037 II\D7\2020]

4 Fox Street

Talephone +64 7 856 2870 Website www.wsp.com/nz





All tests reported herein have been performed in

CCREDITE

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Max dry density from HA6289/2 Sept 2020 (WSP Lab)

Notes

nsitu Density : NZS 4407: 2015, Test 4,3 for Backscatter Mode

Test Methods

accordance with the laboratory's scape of accordington

ANOPA ORY



Greenhill Park Project

Road 38 Location: Online Contractors Ltd Online Contractors Ltd Contractor Client

G Talt Tested by:

15/03/21 Date tested :

GAP40 ex Stevensons Tauhel Sample description:

33576 Nuclear densometer no:

t/m/ PHY. 2.73 2.22 Max dry density (tested) Solid density (tested):

2-68015.00 HA7050 3 Road 38 Client Ref No: Lab Ref No: Project No:

8

Opt water content (tested)

| 200  | 190  | 180  | 170  | 160  | 150  | 140  | 130  | 120  |
|------|------|------|------|------|------|------|------|------|
| BIS  | B/S  | 8/8  | B/S  | S/B  | B/S  | B/S  | B/S  | B/S  |
| 2.30 | 2.23 | 2.31 | 2.33 | 224  | 2.33 | 2.27 | 2.31 | 2.30 |
| 2.18 | 2.16 | 2.19 | 2.21 | 2.16 | 2.19 | 2,16 | 2.20 | 2.18 |
| 5.8  | 5.6  | 52   | 5.5  | 9.9  | 52   | 5,0  | 6.6  | 5,3  |
| 98   | 37   | 66   | 100  | 97   | 55   | 26   | 66   | 86   |
| 62   | 37   | 58   | 54   | 07   | egc. | 522  | 233  | 22   |

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Water Content (%)

% of MDD

Dry Density (t/m²)

Oven Corrected Test Results

Max dry density from : HA6289/2 Sept 2020 (NSP Lab) Notes ANZ Approved Signatory instu Density : NZS 4407 | 2015; Test 4.3 for Backscatter Mode

Grader on LHS

fest Methods

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Laboratory Manager Designation:

16/03/21

Date:

16/03/21

Date reported:

Telephone #64 7 856 2870

Private Bag 3057, Walkato Mail Centre, 3240, Harrilton, New Zealand

Quality Management Systems Certified to ISO 9003

Hamilton (Fox St)

dSW

PF-LAB-037 TI\07/2020]

4 Fox Street

Wiebsite www.wsp.com/hr.

Page 1 of 1

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#### BENKELMAN BEAM TEST REPORT

Project: Greenhill - Stage 15

Location : Road 22

Client : Online Contractors (2016) Limited Contractor : Online Contractors (2016) Limited

Test method : TNZ T/I 1977 Pavement type : GAP40

Pavement temp °C:

Weight on rear axle: 8.3 tonnes

Tested by: J. Waru-Savage, C. Brown

Project No:

2-68015.00

Lab Ref No:

HA7058a

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|          |         | Te               | st Results  |
|----------|---------|------------------|---|
| Location |         | Deflections (mm) | Comments  |
| Metres   | Left WT | Right WT         | Caminers  |
| 160      | 0.80    |                  |   |
| 170      |         | 0.80             | Concrete Pad  |
| 180      | 0.94    |                  |   |
| 190      |         | 0.90             |   |
| 200      |         |                  |   |
| 230      |         | 0.60             |   |
| 220      | 0.80    |                  |   |
| 230      |         | 1.06             |   |
| 240      | 1.06    | 2758             |   |
| 250      |         | 0.92             |   |
| 260      | 1.10    | 22.22.22         |   |
| 270      |         | 080              |   |
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|          | L       | 96               | 90 Percentile calculated for all data in columns 1 to |

Deflection Statistical Analysis (for all deflections)

Maximum (mm): 0.60 Average (mm): 0.89

Note: Results in italics have a difference between intermediate and Final readings that are greater than 3 (refer TNZ T/) 1977).

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Date tested : 17/03/2021 Date reported : 17/03/2021

IANZ Approved Signatory

Designation: Senior Civil Engineering Technician

Date: 17/03/2021

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Private Bag 3057, Walkato Mail Centre, 3240, Hamilton, New Zealand Telephone +64 7 856 2870 Website www.wsp.com/nz

#### BENKELMAN BEAM TEST REPORT



Greenhill - Stage 15

Location:

Road 37

Client:

Online Contractors (2016) Limited

Contractor:

Online Contractors (2016) Limited

Test method:

TNZ T/1 1977

Pavement type :

GAP40

Pavement temp \*C :

. . .

Weight on rear axle.

8.3 tonnes

Tested by:

J. Waru-Savage, C. Brown

Project No :

2-68015.00

Lab Ref No:

HA7058b

Client Ref :

| NAME OF TAXABLE | No.     | No. No. 151 M.  | Test Results |  |
|-----------------|---------|-----------------|--------------|--|
| Location        |         | Deflections Imm |              | Comments   |
| Metres          | Left WT | Hight WT        |              | CONTENSION                                       |
| 280             | 0.70    |                 |              |  |
| 290             |         | 0.96            |              |  |
| 300             | 0.68    |                 |              |  |
| 310             |         | 1.14            |              |  |
| 320             | 0.90    | 20000           |              |  |
| 330             |         | 0.90            |              |  |
| 340             | 0.84    |                 |              |  |
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|                 | 1.      | 03              | 90 Pe        | rcentile calculated for all data in columns 1 to |

Deflection Statistical Analysis (for all deflections)

Maximum (mm): 1.14

Minimum (mm): 0.68

Average (mm): 0.87

Note: Results in italics have a difference between Intermediate and Final readings that are greater than 5 (refer TNZ 1/1)977).

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Date tested:

17/03/2021

Date reported

17/03/2021

1 Hangan

IANZ Approved Signatory

Designation:

Senior Civil Engineering Technician

Date

17/03/2021

IANG LANGERTON

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#### BENKELMAN BEAM TEST REPORT

Project : Greenhill - Stage 15

Location: Road 38

Client : Online Contractors (2016) Limited Contractor : Online Contractors (2016) Limited

Test method : TNZ T/1 1977
Pavement type : GAP40

Pavement temp "C :

Weight on rear axle: 8.3 tonnes

Tested by: J. Waru-Savage, C. Brown

Project No:

2-68015.00

Lab Ref No:

HA7058c

Client Ref:

|          |          | and the same   | Test  | Results   |
|----------|----------|----------------|-------|---|
| Location |          | Deflections (n | WID . |   |
| Matrus   | Left WT: | Pight WT       |       | Comments  |
| 120      | 0.86     |                |       |   |
| 130      |          | 0.70           |       |   |
| 140      | 0.36     |                |       |   |
| 150      |          | 0.56           |       |   |
| 160      | 0.56     | 1115.2         |       |   |
| 170      |          | 0.50           |       |   |
| 180      | 0.64     |                |       |   |
| 190      |          | 0.80           |       |   |
| 200      | 0.70     |                |       |   |
|          |          |                |       |   |
|          | 0.       | 81             |       | 90 Percentile calculated for all data in columns 1 to |

#### Deflection Statistical Analysis (for all deflections)

Maximum (mm): 0.86 Minimum (mm): 0.36 Average (mm): 0.63

Note: Results in italics have a difference between intermediate and Final readings that are greater than 3 (refer TNZ T/) 1977).

This report may only be reproduced in full

Date tested : 17/03/2021 Date reported : 17/03/2021

IANZ Approved Signatory

Designation : Senior Civil Engineering Technician

Date: 17/03/2021

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### **APPENDIX 2(c)**

Reference: 30378

### **Roading QA Documentation**

### **Surfacing & RAMM Data**

- HCC pavement RAMM data
- Surfacing RAMM data

### **F3.8 RAMM CHIPSEAL DATA**

(to be completed for each seal layer on each road section)

| Subdivision  | GREENHILL PARK - STYRE 15                                 |
|--|---|
| Road No / Name   | PORD 37 + 38 + 22   |
| Start m  | CH 350 (20 14) Start Description EOS 87072 12             |
| End m  | CH 170 (8022) End Description 605 31/2 14                 |
| Width  | 5.5   |
| Contractor   | online Continuosos 2016 4d.                               |
| Date of Work   | 01/04/21  |
| Seal Type (circle on   | e) 1 Coat Racked in Chipseal / 2 Coat / Other:            |
| Seal Reason  | Waterproofing First Coat / Second Coat / Asphalt Membrane |
| Area Sealed (m²)   | 1360 m  |
| Chip Grading (e.g. 3   | Mande 4   |
| Binder Type (e.g. B1   | (80/200) CBS-2-Emwision.                                  |
| Chip Source Compa  | J. SWOY.  |
| Chip Source Quarry<br>Total Volume of B<br>(Litres)                  |   |
| Temperature of Bind  | fer (°C) 80° L  |
| Residual Binder Rat  | e (L/m²) 1.0 L/m²   |
| Cutter (e.g. 3 pph Ke<br>Other Additives wi<br>(e.g. Polymer modific | ith concentrations  |
| Sealing Notes (e.g. \  | Weather, Temp)  |
|  |   |
| Surfacing Chip PSV   | testing form attached                                     |

## F3.7 RAMM ASPHALT DATA

(to be completed for each seal layer on each road section)

| Subdivision                                       | online - yneen Will - Stage 15                 |
|---|--|
| Road No / Name                                    | ROAD 37 - 28 + 22                              |
| Start m   | CH 320 (10) 19) Start Description Eds SNAZE 12 |
| End m   | CH 170 Ce0 22 End Description ESS MYNE 14      |
| Width   | 5.5  |
| Contractor  | enline condnowloss.                            |
| Date of Work                                      | 01/04/21                                       |
| Asphalt Type (circle                              | one) AC / OGPA / SMA / Other                   |
| Grading (e.g. M/10 I                              | DU-7   |
| Area Surfaced (m²)                                | 1360 m2  |
| Average thickness (r                              | mm) 36 mm.                                     |
| Laying Temperature<br>Tack Coat Residua<br>(L/m²) |  |
| Additional Notes (e.g<br>Polymer Modification     |  |
|   |  |
|   |  |
|   |  |

## F3.9 RAMM PAVEMENT DATA

(to be completed for each road section)

| Subdivision                           | GREENHIL               | L PARK            | STAG  | E 15         |
|---------------------------------------|------------------------|-------------------|-------|--------------|
| Road No / Name                        | ROAD Z                 | Z (GOSSET         | - AVE | )            |
| Start m                               | 160                    | Start Description |       | 407          |
| End m                                 | 260                    | End Description   |       | COULDSACK AV |
| Width                                 | 5.5m                   |                   |       |              |
| Basecourse                            |                        |                   |       |              |
| Date Completed                        | 12-3-                  | 2021              |       |              |
| Thickness                             | 200 mm                 | 1                 |       |              |
| Grading                               | GAP L                  | 10                |       |              |
| Quarry                                | STEVEN                 | SONS TAUHE        | 1     |              |
| Sub-Base                              |                        |                   |       |              |
| Date Completed                        | NIL                    |                   |       |              |
| Thickness                             |                        |                   |       |              |
| Grading                               |                        |                   |       |              |
| Quarry                                |                        |                   |       |              |
| Undercut / Imported S                 | Subgrade (If Required) | )                 |       |              |
| Whole Site                            | (Yes)/ No              |                   |       |              |
| Length                                | 100                    |                   |       |              |
| Width                                 | 6 m                    |                   |       |              |
| Depth                                 | 500 mm                 |                   |       |              |
| Backfill Material                     | BLUE BRE               | OWN ROCK          |       |              |
| Subgrade<br>CBR With<br>Stabilisation | out) 15                |                   |       |              |
| Material                              |                        |                   |       |              |
| Stabilised?                           | No Cement / I          | ime               |       |              |
| % Stabilising Agent                   |                        |                   |       |              |
| Stabilised Depth                      |                        |                   |       |              |
| Stabilised CBR                        |                        |                   |       |              |

## F3.9 RAMM PAVEMENT DATA

(to be completed for each road section)

| Subdivision                      | GREENHILL              | PARK S            | STAGE 15                | 5                    |
|----------------------------------|------------------------|-------------------|-------------------------|----------------------|
| Road No / Name                   | ROAD 37                | (COULD:           | SACK AVE                | >                    |
| Start m                          | 280                    | Start Description | ROAD 22 (               | GOSSET AN            |
| End m                            | 340                    | End Description   | COT 425                 | Completion to Second |
| Width                            | 5.5m.                  |                   | - Ackerdal (University) |                      |
| Basecourse                       |                        |                   |                         |                      |
| Date Completed                   | 12-3-3                 | 1202              |                         |                      |
| Thickness                        | 200 m                  | in                |                         |                      |
| Grading                          | GAP                    | 10                |                         |                      |
| Quarry                           | STEVENS                | ONS TAUHE!        |                         |                      |
| Sub-Base                         |                        |                   |                         |                      |
| Date Completed                   | NIL                    | _/                |                         |                      |
| Thickness                        |                        |                   |                         |                      |
| Grading                          |                        |                   |                         |                      |
| Quarry                           |                        |                   |                         |                      |
| Undercut / Imported              | Subgrade (If Required) |                   |                         |                      |
| Whole Site                       | Yeg / No               |                   |                         |                      |
| Length                           | 60 m                   |                   |                         |                      |
| Width                            | - 6 m                  |                   |                         |                      |
| Depth                            | 500mm                  |                   |                         |                      |
| Backfill Material                | BLUE BRO               | WN Rock           |                         |                      |
| Subgrade<br>CBR<br>Stabilisation | rout) 15               |                   |                         |                      |
| Material                         |                        |                   |                         |                      |
| Stabilised?                      | (No) Cement / Lin      | ne .              |                         |                      |
| % Stabilising Agent              |                        |                   |                         |                      |
| Stabilised Depth                 |                        |                   | 63                      |                      |
| Stabilised CBR                   | 54                     |                   |                         |                      |

### F3.9 RAMM PAVEMENT DATA

(to be completed for each road section)

| Subdivision                      | GREENHILL                               | PARK              | STAGE I |
|----------------------------------|---|-------------------|---------|
| Road No / Name                   | ROAD 38                                 | (GOSSET           |         |
| Start m                          | 130                                     | Start Description | LOT 414 |
| End m                            | 200                                     | End Description   | ROAD 22 |
| Width                            |   |                   |         |
| Basecourse                       |   |                   |         |
| Date Completed                   | 12-3-                                   | 2021              |         |
| Thickness                        | 200 mg                                  | 4                 |         |
| Grading                          | GAP 4                                   | 0                 |         |
| Quarry                           | STEVENSON                               | S TAUHE!          |         |
| Sub-Base                         |   |                   |         |
| Date Completed                   | NIL                                     |                   |         |
| Thickness                        |   | /                 |         |
| Grading                          |   |                   |         |
| Quarry                           |   |                   |         |
| Undercut / Imported              | Subgrade (If Required)                  |                   |         |
| Whole Site                       | (Yes) / No                              |                   |         |
| Length                           | 70 m                                    |                   |         |
| Width                            | 6m                                      |                   |         |
| Depth                            | 500 MM                                  | 1                 |         |
| Backfill Material                | BLUE BR                                 | OWN ROCK          |         |
| Subgrade<br>CBR<br>Stabilisation | hour 15                                 |                   |         |
| Material                         |   |                   |         |
| Stabilised?                      | No / Cement / Lim                       | e                 |         |
| % Stabilising Agent              | ======================================= |                   |         |
| Stabilised Depth                 |   |                   |         |
| Stabilised CBR                   |   |                   |         |

### **APPENDIX 3**

Reference: 30378

### **Water Construction QA Documentation**

- Pipe Laying Checklists F6.2
- Final Inspection Checklist F6.3
- Laboratory Water Test Results
- Pressure Test Results

# WATER SUPPLY PIPE LAYING CHECKLIST

| SITE ADDRESS: | GREENHILL | PARK | - | STAGE | 15 |
|---------------|-----------|------|---|-------|----|
|               |           |      |   |       |    |

NAME OF DEVELOPER: CHEDWORTH POOPERATES LAD.

NAME OF QUALIFIED

WATER SERVICE PERSON: TE PULL SHEEHAN

| Location: Pipe length FROM (Intersection to Intersection and side)   | PD 37                   | 2022                 | R022                 | 2036<br>S12          | 2036<br>512           |
|--|-------------------------|----------------------|----------------------|----------------------|-----------------------|
| то   | RO22                    | 2037                 | R037                 | E0 22                | 2022                  |
| W .  | Tick if<br>satisfactory | Tick If solislactory | Tick if satisfactory | Tick If satisfactory | Tick if<br>subfactory |
| Pipe size, pressure rating, material, acceptable products checked (attach photo of manufacturer's stamp on pipe)                         | 15-<br>PN12.5           | 190<br>PN12.5        | 63<br>ANIZ.5         | 150<br>PNIZ-5        | PNR.S                 |
| Foundation support attached  | ×                       | ×                    | 70                   | >                    | ×                     |
| Dynamic cone penetrometer (DCP) results available  | x                       | >0                   | ×                    | >=                   | ĸ                     |
| If under-cutting required, note metreage and DCP:  | ×                       | ×                    | *                    | *                    | >=                    |
| Bedding type and backfill material (DCP results for road crossings and driveways attached?) YES NO                                       | SAND                    | SANO                 | Samo                 | SAND                 | SANO                  |
| Valves and hydrants not in carriageway   | /                       | 1                    | 1                    | 1                    | /                     |
| Alignment and cover  | 1                       | 1                    | /                    | 1                    | -                     |
| All service connections in place (Table of water meter and backflow preventor numbers with corresponding lot numbers attached?)  YES  NO | 1                       | /                    | /                    | ,                    | /                     |
| Connections and Toby Box correctly located<br>horizontally and vertically<br>(as per standard drawings)                                  | 1                       | 1                    | ,                    | /                    | /                     |
| Hydrants and valves positioned correctly<br>(as per standard drawings)   | 1                       | 1                    | /                    | /                    | /                     |
| Thrust blocks installed  | ~                       | /                    | 1                    | 1                    | 1                     |
| Pipelines flushed  | /                       | 1                    | /                    | 1                    | 1                     |
| As-built measurements taken prior to backfill  | 1                       | 1                    | 1                    | 1                    | 1                     |
| Pressure test witnessed and passed by Council representative   | 1                       | 1                    | 1                    | 1                    | 1                     |

|  | Tick if solisladary | Tick if satisfactory | Tick If<br>sulfishedary | Tick V<br>antidactory | Tick if<br>salisfactory |
|--|---------------------|----------------------|-------------------------|-----------------------|-------------------------|
| Bacto sample taken and passed by Council<br>representative PRIOR to connection to the live<br>Council main | 1                   | /                    | 1                       | 1                     | 1                       |
| Connection to live main by Council (unless specifically approved)  | 4                   | 1                    | 1                       | 1                     | ~                       |

| (minora specimenty approved)                  |                       | *         |              |     | .000      |
|---|-----------------------|-----------|--------------|-----|-----------|
| Main left charged at FAC level of             | ppm                   |           | 84           |     |           |
| online contrasports                           | 4.0                   | P. H      | opper        | 7   | -4-21     |
| Developer/Contractor's name<br>(please print) | <u>Developer</u> /Con | tractor's | signature    | Da  | te signed |
| Council Representative's name (please print)  | Council Repres        | entative' | 's signature | Dat | te signed |



# WATER SUPPLY FINAL INSPECTION CHECKLIST

| 10.2 |   | CONTRACOL UTO              |  |
|------|---|----------------------------|--|
| SI   | TE/LOCATION GREENHIL PACE   | STATE 15                   |  |
| su   | B/ co   | ONTRACT NO                 |  |
| De   | veloper to verify checklist prior to meeting  | Developer<br>Check         | Council<br>Rep Check                         |
| 1.   | All lines flushed out   | /                          |  |
| 2.   | All backfilling complete and reinstated   | /                          |  |
| 3.   | Water Supply Design Confirmation form com-  | pleted                     |  |
| 4.   | Water Supply Pipe Laying Checklist complete   | ed /                       |  |
| 5.   | Final as-built plans attached for site inspection                                     | on                         |  |
| 3.   | Connected to existing supply by Council (refe<br>Pipe Laying Checklist)               | er Water Supply            |  |
| Sit  | e Meeting:  |                            |  |
| 1.   | Valves and hydrants correctly marked<br>(Refer standard drawings for indicator posts) | /                          |  |
| 2.   | FH pavement markers in place  | /                          |  |
| 1.   | Fire hydrant lids painted   | 1                          |  |
|      | Valve and FH boxes installed correctly (Reference drawings)                           | r standard                 |  |
|      | All valves checked on/off   | /                          |  |
|      | Remedial work required? Yes   | (please list)              |  |
| ev   | reloper/Contractor's name  Developer  Developer                                       | D. Horring                 | <b>%</b> ~ <b>4</b> − <b>2</b> / Date signed |
| ou   |   | Representative's signature | Date signed                                  |

# **Test Certificate**

| Date                              |               | 4 F                    | eb 2   | 150    |        |            |  |  |  |
|-----------------------------------|---------------|------------------------|--------|--------|--------|------------|--|--|--|
| Project Name                      |               |                        | enhil  |        |        |            |  |  |  |
| Plan No.                          |               |                        | c 15,  |        | 3      |            |  |  |  |
| Contractor                        |               | Onli                   | ne     |        |        |            |  |  |  |
| Contractors R                     | ер            | Tyler                  | mai    | hi     |        |            |  |  |  |
| HCC Officer                       |               | Tyler Maihi<br>M. Gits |        |        |        |            |  |  |  |
| /ater Reticulat<br>ressure Test – |               | 71-PSI                 | or     | 1200k  | Pa     | for 15mins |  |  |  |
| Test Name                         | PN Rating     | Pipe Size              | Start  | Finish | Length | Result     |  |  |  |
| PT.                               | 16.           | 63,                    | 10 .45 | (1.00  | 600m   | Pass       |  |  |  |
|                                   |               |                        | - 1    |        |        |            |  |  |  |
|                                   |               |                        |        |        |        |            |  |  |  |
|                                   |               |                        |        |        |        |            |  |  |  |
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|                                   |               |                        |        |        |        |            |  |  |  |
|                                   |               | f .                    |        |        |        |            |  |  |  |
|                                   |               | 11                     |        |        |        |            |  |  |  |
|                                   |               |                        |        |        |        |            |  |  |  |
|                                   |               |                        |        |        | 8      |            |  |  |  |
| Signature HCC                     | Test Official | ji                     | 1      | 1)     |        |            |  |  |  |
|                                   |               |                        |        | 7~     | 7      |            |  |  |  |



| Sample ID  | Sample Type           | Site                | Date         | Date                                   | Parameter Name                 | Result        | Units     | Lab                   | Status |
|------------|-----------------------|---------------------|--------------|--|--------------------------------|---------------|-----------|-----------------------|--------|
|            |                       |                     | Sampled      | Received                               |                                |               |           |                       |        |
| 2021000845 | Hamilton Reticulation | 150 Greenhill west  | 16/02/2021   | 16/02/2021                             | Heterotrophic Plate Count 35°C | <1            | cfu/mL    | <b>HCC Laboratory</b> | е      |
|            | Maintenance           |                     |              |  |                                |               |           |                       |        |
| 2021000845 | Hamilton Reticulation | 150 Greenhill west  | 16/02/2021   | 16/02/2021                             | Temperature On Arrival         | 17.1          | ōС        | <b>HCC Laboratory</b> | е      |
|            | Maintenance           |                     |              |  |                                |               |           |                       |        |
| 2021000845 | Hamilton Reticulation | 150 Greenhill west  | 16/02/2021   | 16/02/2021                             | E.coli Enumerated              | <1            | MPN/100mL | HCC Laboratory        | е      |
|            | Maintenance           |                     |              |  |                                |               |           | · ·                   |        |
| 2021000845 | Hamilton Reticulation | 150 Greenhill west  | 16/02/2021   | 16/02/2021                             | Total Coliforms Enumerated     | <1            | MPN/100mL | HCC Laboratory        | е      |
|            | Maintenance           |                     |              |  |                                |               |           | · ·                   |        |
| 2021000845 | Hamilton Reticulation | 150 Greenhill west  | 16/02/2021   | 16/02/2021                             | Time Sampled (client)          | 06:30         |           | Client                | е      |
|            | Maintenance           |                     |              |  | , , ,                          |               |           |                       |        |
| 2021000845 | Hamilton Reticulation | 150 Greenhill west  | 16/02/2021   | 16/02/2021                             | Sampler (client)               | Lance Parkes  |           | Client                | е      |
|            | Maintenance           |                     |              |  |                                |               |           |                       |        |
| 2021000846 | Hamilton Reticulation | 150 Greenhill North | 16/02/2021   | 16/02/2021                             | Heterotrophic Plate Count 35°C | 5             | cfu/mL    | HCC Laboratory        | е      |
|            | Maintenance           |                     | , ,          |  | ·                              |               | ,         | ,                     |        |
| 2021000846 | Hamilton Reticulation | 150 Greenhill North | 16/02/2021   | 16/02/2021                             | Temperature On Arrival         | 16.8          | ōС        | HCC Laboratory        | е      |
|            | Maintenance           |                     |              |  | ·                              |               |           | · ·                   |        |
| 2021000846 | Hamilton Reticulation | 150 Greenhill North | 16/02/2021   | 16/02/2021                             | E.coli Enumerated              | <1            | MPN/100mL | HCC Laboratory        | е      |
|            | Maintenance           |                     | , ,          |  |                                |               | ,         | ,                     |        |
| 2021000846 | Hamilton Reticulation | 150 Greenhill North | 16/02/2021   | 16/02/2021                             | Total Coliforms Enumerated     | <1            | MPN/100mL | HCC Laboratory        | е      |
|            | Maintenance           |                     | , , ,        |  |                                |               | ,         | ,                     |        |
| 2021000846 | Hamilton Reticulation | 150 Greenhill North | 16/02/2021   | 16/02/2021                             | Time Sampled (client)          | 06:35         |           | Client                | е      |
|            | Maintenance           |                     | , ,          |  | , , ,                          |               |           |                       |        |
| 2021000846 | Hamilton Reticulation | 150 Greenhill North | 16/02/2021   | 16/02/2021                             | Sampler (client)               | Lance Parkes  |           | Client                | е      |
|            | Maintenance           |                     | , ,          |  |                                |               |           |                       |        |
| 2021000847 | Hamilton Reticulation | 150 Greenhill East  | 16/02/2021   | 16/02/2021                             | Heterotrophic Plate Count 35°C | <1            | cfu/mL    | HCC Laboratory        | е      |
|            | Maintenance           |                     | , ,          |  | ·                              |               | ,         | ,                     |        |
| 2021000847 | Hamilton Reticulation | 150 Greenhill East  | 16/02/2021   | 16/02/2021                             | Temperature On Arrival         | 17.7          | οС        | HCC Laboratory        | е      |
|            | Maintenance           |                     | , , ,        |  |                                |               |           | ,                     |        |
| 2021000847 | Hamilton Reticulation | 150 Greenhill East  | 16/02/2021   | 16/02/2021                             | E.coli Enumerated              | <1            | MPN/100mL | HCC Laboratory        | е      |
|            | Maintenance           |                     | , , ,        |  |                                |               | ,         | ,                     |        |
| 2021000847 | Hamilton Reticulation | 150 Greenhill East  | 16/02/2021   | 16/02/2021                             | Total Coliforms Enumerated     | <1            | MPN/100mL | HCC Laboratory        | е      |
|            | Maintenance           |                     |              | -, -, -, -, -, -, -, -, -, -, -, -, -, |                                |               | ,         |                       |        |
| 2021000847 | Hamilton Reticulation | 150 Greenhill East  | 16/02/2021   | 16/02/2021                             | Time Sampled (client)          | 06:45         |           | Client                | е      |
|            | Maintenance           |                     | ==, ==, ==== |  | (5.1.1.5)                      |               |           |                       |        |
| 2021000847 | Hamilton Reticulation | 150 Greenhill East  | 16/02/2021   | 16/02/2021                             | Sampler (client)               | Lance Parkes  |           | Client                | е      |
| _30000.7   | Maintenance           | 200 0.00///////     | 25, 52, 2521 | 25, 52, 2521                           | (5.5.5)                        | 2000 1 01.100 |           |                       |        |

### **APPENDIX 4**

Reference: 30378

### **Wastewater Construction and QA Records**

- Wastewater Pipe Laying Checklist F5.2
- Wastewater Manhole Checklist F5.3
- Wastewater trench Backfill Summary Checklist F5.4
- Wastewater Final Inspection Checklist F5.6
- Pressure Test Results
- CCTV submission email

### F5.2 WASTEWATER PIPE LAYING CHECKLIST

| Engineering plan number(s): 21879-M-1   | 3-SO1   |       |        |                |        |
|---|---------|-------|--------|----------------|--------|
| Name of certified drainlayer: 2 Millian   | H W     | v +   | + m    | ~ <del>=</del> | md     |
| Location: Pipe length (MH To MH)  | 1 to 60 | 2 108 | S 10 5 | 6 to bo        | € 10 E |
| Pipe Laying Checks  |         |       |        |                |        |
| Trench Safety (d) Shield (e) Batter (f) Other   |         |       |        |                |        |
| Pipe size, quality, manufacturer, on acceptable products list   | 0       | 9     | 9      |                | -      |
| Set out  - Surveyors name Online  - Set out checked   | 0       |       | 0      | 0              | 0      |
| Foundation support attached  - Dynamic cone penetrometer (DCP) results  - if under cutting required, note metreage and DCP results. |         |       | 0      | 9              | 0      |
| Record daily level check and confirm on grade   | D       | 3     | 0      | 0              | 8      |
| Bedding type and surround material:   |         | 10    |        | 0              |        |
| Bulk Backfill material: Brown Rak   | 0       | 8     | 0      | Ð              | 0      |
| Bulk backfill compaction (DCP results from pipe to ground level attached)   | 0       | 0     | 9      | 8              | 4      |
| Alignment – control points identified   | 0       | -0    | 40     | 8              | 0      |
| Pressure test witnessed and passed by Council representative.   | 0       |       |        |                | B      |
| Service connections   |         |       |        |                |        |
| All service connections in place, taped, and staked   | œ/      | D     | 0      |                |        |
| As-built measurements taken, GPS located  | Ø       | B     | 0      | 0              |        |
| CCTV pipe inspection data and comments supplied   | D       | B     |        |                |        |

Vest Construction

16/12/20.

Developer/Contractor

Date

## F5.2 WASTEWATER PIPE LAYING CHECKLIST

| Engineering plan number(s): 21879 - M   | -13-    | 501      |          |        |          |
|---|---------|----------|----------|--------|----------|
| Name of certified drainlayer: Zace Mill   | w -     | 4 4      | 2 =      | 7 4    | 4 4      |
| Location: Pipe length (MH To MH)  | € to 50 | 80 PP    | 5 to 5   | 2 to 6 | or too   |
| Pipe Laying Checks  |         |          |          |        |          |
| Trench Safety   | 0/      | 0        | Ø        | 8      | 8        |
| (d) Shield  | Ø       | 0        |          | 0      | 0        |
| (e) Batter<br>(f) Other   |         |          |          |        |          |
| Pipe size, quality, manufacturer, on acceptable products list   | D       |          |          | Q.     |          |
| Set out  - Surveyors name Online  - Set out checked   | D D     | 8        |          |        |          |
| Foundation support attached  — Dynamic cone penetrometer (DCP) results  — if under cutting required, note metreage and DCP results. |         |          | 0        | 0      | 0        |
| Record daily level check and confirm on grade   | 0       | 0        |          | 9      | 8        |
| Bedding type and surround material:   | 0       |          |          | -      | 0        |
| Bulk Backfill material: Brown Rock  | 8       | æ        | 0        | 9      | <b>a</b> |
| Bulk backfill compaction (DCP results from pipe to ground level attached)   | B       | <b>a</b> | <u>-</u> | 0      |          |
| Alignment – control points identified   | 0       | 0        | 0        | 0      |          |
| Pressure test witnessed and passed by Council representative.   | Ø       | 0        | 9        | 0      | 9        |
| Service connections   | 7       |          | Y        |        |          |
| All service connections in place, taped, and  | œ/      | 0        | G/       | 8      | 0        |

| All service connections in place, taped, and staked | œ/ |    | 9 | 8        | 9        |
|---|----|----|---|----------|----------|
| As-built measurements taken, GPS located            | DV | 13 |   | 0        | <b>B</b> |
| CCTV pipe inspection data and comments supplied     | ď  | D  |   | <b>B</b> | B        |

West Construction

16/12/20

Developer/Contractor

# F5.2 WASTEWATER PIPE LAYING CHECKLIST

| Engineering plan number(s): 21879-M-  | 13-8 | 01   |     |     |        |
|---|------|------|-----|-----|--------|
| Name of certified drainlayer: Zane Miller   | 7 -  | 2 2  | n 2 | 2 - | 4 -    |
| Location: Pipe length (MH To MH)  | 2000 | 7017 | いらい | 787 | 7 to 2 |
| Pipe Laying Checks  |      |      |     |     |        |
| Trench Safety (d) Shield (e) Batter (f) Other   |      | 0    | 000 |     | 0 8 0  |
| Pipe size, quality, manufacturer, on acceptable products list   | 0    |      | 8   |     | D      |
| Set out  - Surveyors name Colve  - Set out checked  | 8    |      | 99  | 00  | 0      |
| Foundation support attached  – Dynamic cone penetrometer (DCP) results  – if under cutting required, note metreage and DCP results. |      |      | 0   |     | 0      |
| Record daily level check and confirm on grade   | 9    | 0    | 0   | 0   |        |
| Bedding type and surround material: 40/20 ~ PitSoud   | Ø    | .0   | B   | 0   | 0      |
| Bulk Backfill material:  Brown Rock   | 0    | •    | 0   | . 🖫 | 0      |
| Bulk backfill compaction (DCP results from pipe to ground level attached)   |      |      | 0   | 0   |        |
| Alignment – control points identified   |      | 8    |     | 8   |        |
| Pressure test witnessed and passed by Council representative.   | 0    |      | •   |     |        |
| Service connections   |      |      |     |     |        |
| All service connections in place, taped, and staked   |      |      |     | 8   | d      |
| As-built measurements taken, GPS located  |      |      | 0   | 0   | 4      |

| All service connections in place, taped, and staked | D/ |        |    | 8 | d |
|---|----|--------|----|---|---|
| As-built measurements taken, GPS located            | 0  | - D    | 0  | 0 | 4 |
| CCTV pipe inspection data and comments supplied     |    | 0      | 0  |   |   |
| Wast Construction                                   |    | 16/12/ | 20 | , |   |

Developer/Contractor

# F5.3 WASTEWATER MANHOLE CHECKLIST

| Engineering Plan Number(s) 2187   | 1-M-1  | 3-201    |      |      |             |
|---|--------|----------|------|------|-------------|
| Name of certified drainlayer:   | Miller |          |      |      |             |
| Location: Pipe length (MH To MH)  | 185    | 14.4     | 18.3 | 18A1 | 18,2        |
| Manhole Construction Checklist  | MH num | ber      |      |      |             |
| Manhole size, quality, manufacturer on<br>acceptable materials list   | 8      |          | 9    | 0    | 9           |
| Set out /orientation  | 6      | <b>B</b> | 0    | 0    |             |
| Sealing strip between risers  | b      | 0        | П    | ď    | 9           |
| Benching Height Alignment and cross section Half pipe lining (wastewater only) Step recesses (if applicable) Flexible joints Cutting and plastering of connections Access details per drawings (e.g. manhole cover sited over steps). Step irons including epoxy to outside | 900000 |          |      |      | 9 9 0 0 9 9 |
| Bedding type and surround   | 0      |          | 0    | 0    |             |
| Bulk backfill compaction - Dynamic Cone<br>Penetrometer (DCP) results attached  |        | 0        | 0    | 0    | 0           |
| No debris in pipelines  | 0      |          |      | 0    |             |
| Pipe invert fall through manhole  | 0      | Ø        | 0    | ď    |             |
| Pressure test witnessed and passed by<br>Council representative.  |        | 0        | D    | Ø    | 9           |

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## F5.3 WASTEWATER MANHOLE CHECKLIST

| Engineering Plan Number(s) 21879   | 1-M-1  | 3-501      |      |          |      |
|--|--------|------------|------|----------|------|
| Name of certified drainlayer: Zave   | Mille  | ^          |      |          |      |
| Location: Pipe length (MH To MH)   | 18.1   | 19.2       | 19.1 | 1991     | 20.2 |
| Manhole Construction Checklist   | MH num | ber        |      |          |      |
| Manhole size, quality, manufacturer on<br>acceptable materials list  | 9      | б          | 0    | <b>B</b> | •    |
| Set out /orientation   | 9      | œ ,        | 0    |          |      |
| Sealing strip between risers   | 0      | Ø          | П    | 0        | 0    |
| Benching Height Alignment and cross section Half pipe lining (wastewater only) Step recesses (if applicable) Flexible joints |        |            | 0000 | 90000    |      |
| Cutting and plastering of connections  | 0      |            | Ø    | 0        | 0    |
| Access details per drawings (e.g. manhole cover sited over steps).   | 0      | <b>Q</b>   |      | 0        | 0    |
| Step irons including epoxy to outside recesses   |        | <b>a</b> / | o/   | 0        | 0    |
| Bedding type and surround  | a      | 0          | B    | 0        | 8    |
| Bulk backfill compaction - Dynamic Cone<br>Penetrometer (DCP) results attached   | Q/     | <b>Q</b>   |      | 0        | 6    |
| No debris in pipelines   |        | 0          |      | 0        | B    |
| Pipe invert fall through manhole   | DZ     | 0          | 0    | ď        | Ø    |
| Pressure test witnessed and passed by<br>Council representative.   | 8      | 12         |      | 0        | 9    |

Wast Construction

16/12/20

Developer/Contractor

## F5.3 WASTEWATER MANHOLE CHECKLIST

| Engineering Plan Number(s) 2187  | 9-M.   | -13- Se | 1/2      |          |   |
|--|--------|---------|----------|----------|---|
| Name of certified drainlayer: 2auc   | Miller | 1       | 55       |          |   |
| Location: Pipe length (MH To MH)   | 201    | 21.3    | 21.2     | 21.1     | 22.2                                    |
| Manhole Construction Checklist   | MH num | ber     | III CO   |          | 100000000000000000000000000000000000000 |
| Manhole size, quality, manufacturer on<br>acceptable materials list  | 8      | 9       | 8        |          | 0                                       |
| Set out /orientation   | 9      |         |          |          | 8                                       |
| Sealing strip between risers   | 8      | 0       |          |          | B                                       |
| Benching Height Alignment and cross section Half pipe lining (wastewater only) Step recesses (if applicable) |        | 0000    | 9990     |          | 990                                     |
| Flexible joints  | 0      |         |          |          |   |
| Cutting and plastering of connections  | 8      |         | 9        | 8        |   |
| Access details per drawings (e.g. manhole cover sited over steps).   |        | 0       | ₽        | 0        | <b>D</b>                                |
| Step irons including epoxy to outside recesses   | B      | 0       | <b>B</b> | <u>-</u> | 0                                       |
| Bedding type and surround  | 0      | 0       | 0        | 0        |   |
| Bulk backfill compaction - Dynamic Cone<br>Penetrometer (DCP) results attached                               | 0      | .0      | B        | O O      |   |
| No debris in pipelines   |        | 9       |          | 9        | O/                                      |
| Pipe invert fall through manhole   | 0      | B       | 0        | 0        | O/                                      |
| Pressure test witnessed and passed by<br>Council representative.   | ď      | OV.     | ď        | O O      | ø                                       |

West Costruction

16/12/20

Developer/Contractor

| Technician Carrying out Tests:  | West Construction       |
|---|-------------------------|
| Location:   | Greenhill Park 13,14,15 |
| Plan No(s):   | 21872-M-13-SOL          |
| From MH   | 22.2 - 22.1             |
| Acceptance Criteria:  |                         |
| Tests by:   | West Construction       |
| Analysis of Results  Trench backfill completed  or  Trench backfill requires references |                         |
| West Construt   | 16/12/20                |

Date

Developer/Contractor

| Technician Carrying out Tests: | Wast Corbacoda                |
|--------------------------------|-------------------------------|
| Location:                      | Greenin Park 13,14,15         |
| Plan No(s):                    | 21879-M-13-Seg                |
| From MH                        | 19.2-20.2-21.3-21.2-21.1-20.1 |
| Acceptance Criteria:           | CBR716                        |
| Tests by:                      | West Constitution             |

(attached)

| Anal | ysis of Results                                    |
|------|--|
| d    | Trench backfill completed satisfactorily           |
| or   |  |
|      | Trench backfill requires remedial work as follows: |
|      | 920  |

West Construction

16/12/20

Developer/Contractor

| Technician Carrying out Tests: | West Constaction                        |
|--------------------------------|---|
| Location:                      | Greenill Park 13,14,15                  |
| Plan No(s):                    | 21879-M-13-SOL                          |
| From MH                        | FEI, 18.5, 18.4, 18.3, 18.2, 18.1, 18A1 |
| Acceptance Criteria:           | CBR >16                                 |
| Tests by:                      | West Construction                       |
|                                | (at                                     |

(attached)

| Analy | rsi | s | of  | R | es | ul | ts |
|-------|-----|---|-----|---|----|----|----|
|       |     | • | ~ . |   |    |    |    |

| 9         | Trench backfill completed satisfactorily           |
|-----------|--|
| <u>10</u> |  |
|           | Trench backfill requires remedial work as follows: |

West Construction

Developer/Contractor

| Technician Carrying out Tests: | West Constitution   |
|--------------------------------|---------------------|
| Location:                      | Greenhal 13,14,15   |
| Plan No(s):                    | 21879-M-13-SOL      |
| From MH                        | 18.2-19.2.1741-19.1 |
| Acceptance Criteria:           | CBR716              |
| Tests by:                      | West Constration    |
|                                | (attached           |

|  |          | (attached |
|--|----------|-----------|
| Analysis of Results                                  |          |           |
| Trench backfill completed satisfactorily             |          |           |
| <u>or</u>  |          |           |
| ☐ Trench backfill requires remedial work as follows: |          |           |
| libst Construction                                   | 16/12/20 |           |

Date

Developer/Contractor

# CHECKLIST F4.6 STORMWATER PIPE NETWORK - FINAL INSPECTION

|      | 7  |           |                      |
|------|--|-----------|----------------------|
| S    | Site/Location: GREENININ POWLE StogE'S 13, 14, 15                                  | 1415      |                      |
| D    | Developer/Contractor: West (enstruction  |           |                      |
| SUB  | JB/ Contract No:   |           |                      |
| PR   | PRE-MEETING TASKS  |           |                      |
| De   | Developer to verify checklist prior to meeting:                                    | Developer | Council<br>Rep Check |
| -    | All relevant stormwater checklists completed                                       | Q         | 0                    |
| 12   | All lines flushed out  | Q         | 0                    |
| ω    | All required CCTV inspections carried out, reviewed and any re-<br>work completed. | R         | 0                    |
| 4    | All manholes checked (eg.infiltration, plastering)                                 | Q         | 0                    |
| ĊΠ   | All backfilling complete and tidled up   | N         | 0                    |
| 0    | Final as-built and operational plans attached for site inspection                  | 0         | 0                    |
| ST   | SITE MEETING   |           |                      |
| -    | Inspect all lines  |           | 0                    |
| 'n   | inspect all manholes and catchpits   | 0         | 0                    |
| ω    | Works on third party land completed to satisfaction of owner                       | 0         | 0                    |
| 4    | Overland flow to and from adjoining properties not affected                        | 0         | 0                    |
| , in | Remedial work required?  | 6         |                      |
| 2    | - Construction Council   |           |                      |
| De   | Developer Council  |           |                      |
| ?    | 9/3/2  |           |                      |

# F5.6 WAST WASTEWATER PIPE NETWORK - FINAL INSPECTION

| Site/Location: Greential Park Stages  Developer/Contractor: Last Constauction                          | 13,14,15  |
|--|-----------|
| SUB/ Contract No:  |           |
| Developer to verify checklist prior to meeting:  | Developer |
| <ol><li>All checklists completed (add form numbers)</li></ol>  | Q         |
| 7. All lines flushed out   | Q         |
| <ol><li>All required CCTV inspections carried out, reviewed and any re-<br/>work completed.</li></ol>  | Q         |
| 9. All manholes checked (eg.inflitration, plastering)  | B         |
| 10. All backfilling complete and tidied up   | Q         |
| 11. Pressure test completed and witnessed  | 旦         |
| 12. Final as-built and operational plans attached for site inspection                                  | 0         |
| Site Meeting   |           |
| 13. Inspect all lines  | 0         |
| 14. Inspect all manholes and catchpits   | 0         |
| 15. Inspect SW inlet and outlet structures   | 0         |
| 16. Secondary flowpaths and detention ponds  | 0         |
| 17. Works on third party land completed to satisfaction of owner                                       | _         |
| <ol> <li>Wastewater pumping station data complete and test results<br/>(Form F5.7) attached</li> </ol> | 0         |
| <ol><li>Overland flow to and from adjoining properties not affected</li></ol>                          | 0         |
| Remedial work required?   ☐ Yes (please list)  | No.       |
|  | 97 9/3    |
| Council Developer  |           |

# **HCC WW testing Report**

# **HCC WW testing Report**

Complete

| Score  | 0%         | Failed items              | 0 | Actions   | 0                 |
|--|------------|---------------------------|---|---|-------------------|
| Location   |            |                           |   | Greenhill area M Stages 13,<br>Chartwell, Hamilton 328<br>Z   |                   |
|  |            |                           |   | (-37.7490854, 175.29)   | 60279)            |
| Conducted on   |            |                           |   | 16th Nov, 2020 11:22 AM   | I NZDT            |
| Test type  |            |                           |   | Wastewater pressure test  |                   |
|  |            |                           |   | MH pressure test -  |                   |
| Pipe type  |            |                           |   | 100mm - SN16 - uPVC   |                   |
|  |            |                           |   | 150mm - SN16 - uPVC   |                   |
| MH # tested  |            |                           |   | WWMH's 19.1, 19a.1, 19.2,<br>18.1, 18.2, 18.3, 18.4, 18.<br>20.2, 21.1, 21.2  | 5, 20.1,          |
| MH # to MH #   |            |                           |   | WWMH's 19a.1 to 19.2 to 19.2 to 18.2 to 18.1, 18.2 to 18.3 to 18.2 to 20.2 to 20.1, 20.2 to 21.2 to 21.1, 18.3 to 18.4 to inter | 18a.1,<br>21.3 to |
| Tested by  Matt from Wests Construct 16th Nov, 2020 11:52 AM N               |            |                           |   |   |                   |
| Inspector/Auditor  |            |                           |   | Lance Parkes  |                   |
| Comments   |            |                           |   |   |                   |
| WWMH's tested - WWMH's WW main tested - WWMH's 20.2 to 21.3 to 21.2 to 21.1, | 19a.1 to 1 | 9.2 to 19.1, 19.2 to 18.2 |   | , 20.1, 20.2, 21.1, 21.2, 21.3.<br>18.3 to 18a.1, 18.2 to 20.2 to 20  | ).1,              |
| Photos   |            |                           |   |   |                   |
| Pass/Fail  |            |                           |   | Pass  |                   |

Private & Confidential 1/1



### **BACKFILL RESULT SHEET**

TESTED BY: West Construction

PROJECT NAME: Greenhill Park Stages 13,14,15

| Sewer Chainage | C/L Trench | Remarks     |   |  |  |  |
|----------------|------------|-------------|---|--|--|--|
| FEI WWMH1.9    | 1ST LIFT   | SECOND LIFT |   |  |  |  |
| 10             | 24         | 21          | BROWN ROCK 1M TEST                      |  |  |  |
| 20             | 26         | 19          | BROWN ROCK 1M TEST                      |  |  |  |
| SSMH18.5       |            |             |   |  |  |  |
| 10             | 21         | 17          | BROWN ROCK 1M TEST                      |  |  |  |
| 20             | 23         | 22          | BROWN ROCK 1M TEST                      |  |  |  |
| 30             | 27         | 29          | BROWN ROCK 1M TEST                      |  |  |  |
| 40             | 29         | 24          | BROWN ROCK 1M TEST                      |  |  |  |
| 50             | 22         | 21          | BROWN ROCK 1M TEST                      |  |  |  |
| 60             | 24         | 27          | BROWN ROCK 1M TEST                      |  |  |  |
| 70             | 28         | 20          | BROWN ROCK 1M TEST                      |  |  |  |
| 80             | 26         | 23          | BROWN ROCK 1M TEST                      |  |  |  |
| SSMH18.4       |            |             |   |  |  |  |
| 10             | 27         | 24          | BROWN ROCK 1M TEST                      |  |  |  |
| 20             | 21         | 25          | BROWN ROCK 1M TEST                      |  |  |  |
| 30             | 24         | 20          | BROWN ROCK 1M TEST                      |  |  |  |
| 40             | 21         | 18          | BROWN ROCK 1M TEST                      |  |  |  |
| 50             | 27         | 24          | BROWN ROCK 1M TEST                      |  |  |  |
| 60             | 20         | 22          | BROWN ROCK 1M TEST                      |  |  |  |
| SSMH18.3       |            |             | 2 |  |  |  |
| 10             | 22         | 18          | BROWN ROCK 1M TEST                      |  |  |  |
| 20             | 21         | 22          | BROWN ROCK 1M TEST                      |  |  |  |
| 30             | 27         | 20          | BROWN ROCK 1M TEST                      |  |  |  |
| 40             | 25         | 27          | BROWN ROCK 1M TEST                      |  |  |  |
| 50             | 29         | 23          | BROWN ROCK 1M TEST                      |  |  |  |
| 60             | 19         | 22          | BROWN ROCK 1M TEST                      |  |  |  |
| 70             | 21         | 26          | BROWN ROCK 1M TEST                      |  |  |  |
| SSMH18.2       |            |             |   |  |  |  |
| 10             | 20         | 24          | BROWN ROCK 1M TEST                      |  |  |  |
| 20             | 22         | 19          | BROWN ROCK 1M TEST                      |  |  |  |
| 30             | 24         | 29          | BROWN ROCK 1M TEST                      |  |  |  |
| 40             | 21         | 26          | BROWN ROCK 1M TEST                      |  |  |  |
| 50             | 21         |             | BROWN ROCK 1M TEST                      |  |  |  |
| 60             | 23         |             | BROWN ROCK 1M TEST                      |  |  |  |
| 70             | 25         |             | BROWN ROCK 1M TEST                      |  |  |  |
| 80             | 21         |             | BROWN ROCK 1M TEST                      |  |  |  |
| SSMH18.1       |            |             |   |  |  |  |
| SSMH18.3       |            |             |   |  |  |  |
| 10             | 23         | 21          | BROWN ROCK 1M TEST                      |  |  |  |
| 20             | 27         | 26          | BROWN ROCK 1M TEST                      |  |  |  |
| 30             | 21         | 25          | BROWN ROCK 1M TEST                      |  |  |  |
| 40             | 24         |             | BROWN ROCK 1M TEST                      |  |  |  |
| 50             | 29         |             | BROWN ROCK 1M TEST                      |  |  |  |
| 60             | 24         |             | BROWN ROCK 1M TEST                      |  |  |  |
| SSMH18.A1      |            |             |   |  |  |  |
|                |            |             |   |  |  |  |
| SSMH18.2       |            | 40          | DDOWN DOOK 454 TEST                     |  |  |  |
| 10             | 22         | 19          | BROWN ROCK 1M TEST                      |  |  |  |
| 20             | 24         | 22          | BROWN ROCK 1M TEST                      |  |  |  |

| JECT NAME: | Greenhill Park Stages 13,14,15 |    |                    |
|------------|--------------------------------|----|--------------------|
| 30         | 21                             | 24 | BROWN ROCK 1M TEST |
| 40         | 29                             | 26 | BROWN ROCK 1M TEST |
| 50         | 24                             | 25 | BROWN ROCK 1M TEST |
| 60         | 27                             | 30 | BROWN ROCK 1M TEST |
| SSMH19.2   |                                |    |                    |
| 10         | 29                             | 22 | BROWN ROCK 1M TEST |
| 20         | 24                             | 26 | BROWN ROCK 1M TEST |
| 30         | 25                             | 23 | BROWN ROCK 1M TEST |
| 40         | 26                             | 24 | BROWN ROCK 1M TEST |
| 50         | 24                             |    | BROWN ROCK 1M TEST |
| 60         | 21                             |    | BROWN ROCK 1M TEST |
| 70         | 26                             |    | BROWN ROCK 1M TEST |
| 80         | 28                             |    | BROWN ROCK 1M TEST |
| 90         | 24                             |    | BROWN ROCK 1M TEST |
| SSMH19.1   |                                |    |                    |
| SSMH19.2   |                                |    |                    |
| 10         | 22                             |    | BROWN ROCK 1M TEST |
| SSMH19.A1  |                                |    |                    |
| SSMH18.2   |                                |    |                    |
| 10         | 21                             | 26 | BROWN ROCK 1M TEST |
| 20         | 23                             | 22 | BROWN ROCK 1M TEST |
| 30         | 24                             | 24 | BROWN ROCK 1M TEST |
| 40         | 27                             | 36 | BROWN ROCK 1M TEST |
| 50         | 19                             | 25 | BROWN ROCK 1M TES  |
| 60         | 21                             | 24 | BROWN ROCK 1M TEST |
| SSMH20.2   |                                |    |                    |
| 10         | 19                             | 23 | BROWN ROCK 1M TEST |
| 20         | 20                             | 24 | BROWN ROCK 1M TEST |
| 30         | 24                             | 21 | BROWN ROCK 1M TES  |
| 40         | 26                             | 22 | BROWN ROCK 1M TEST |
| 50         | 22                             |    | BROWN ROCK 1M TES  |
| 60         | 23                             |    | BROWN ROCK 1M TEST |
| 70         | 20                             |    | BROWN ROCK 1M TES  |
| 80         | 21                             |    | BROWN ROCK 1M TES  |
| SSMH20.1   |                                |    |                    |
| SSMH20.2   |                                |    |                    |
| 10         | 25                             | 19 | BROWN ROCK 1M TEST |
| 20         | 24                             | 18 | BROWN ROCK 1M TES  |
| 30         | 23                             | 26 | BROWN ROCK 1M TEST |
| 40         | 26                             | 21 | BROWN ROCK 1M TEST |
| SSMH21.3   |                                |    |                    |
| 10         | 20                             | 25 | BROWN ROCK 1M TEST |
| 20         | 24                             | 23 | BROWN ROCK 1M TES  |
| SSMH21.2   |                                |    |                    |
| 10         | 24                             | 21 | BROWN ROCK 1M TEST |
| 20         | 25                             | 23 | BROWN ROCK 1M TEST |
| 30         | 28                             | 25 | BROWN ROCK 1M TEST |
| 40         | 23                             | 22 | BROWN ROCK 1M TES  |
| 50         | 29                             |    | BROWN ROCK 1M TEST |

| TESTED BY:    | West Construction                            |  |                     |  |  |  |  |  |  |
|---------------|--|--|---------------------|--|--|--|--|--|--|
| PROJECT NAME: | PROJECT NAME: Greenhill Park Stages 13,14,15 |  |                     |  |  |  |  |  |  |
| 70            | 25   |  | BROWN ROCK 1M TESTS |  |  |  |  |  |  |
| SSMH21.1      |  |  |                     |  |  |  |  |  |  |
|               |  |  |                     |  |  |  |  |  |  |

### **Barry Pearson**

From:

Barry Pearson (Shrimpton and Lipinski Limited Partnership (HQ - Tauranga))

<br/>bpearson@sltga.co.nz>

Sent:

Tuesday, 13 April 2021 3:24 PM

To:

Martyn Smith (Hamilton City Council (Hamilton))

Subject:

Document Issue No. 9 - Stage 15 GHP - CCTV SW and WW

Attachments:

19-30378-03 - Greenhill Park - Area M Stage 13, 14 and 15 - Issue 9.pdf

# 19-30378-03 - Greenhill Park - Area M Stage 13, 14 and 15 Issue 9

Issued by: Barry Pearson (Shrimpton and Lipinski Limited Partnership)

On: 13 Apr 2021

Stage 15 GHP - CCTV SW and WW for Review

Note that we intend to submit our Greenhill Park engineering works completion report to HCC approx. 14th April 2021 for review and approval.

Thanks

### Access the documents for this issue

### Recipients:

Martyn Smith (Hamilton City Council (Hamilton))

Lance Parkes (Hamilton City Council (Hamilton))

Murray Giles (Hamilton City Council (Hamilton))

Barry Pearson (Shrimpton and Lipinski Limited Partnership (HQ - Tauranga))

Mark Derksen (Shrimpton and Lipinski Limited Partnership (HQ - Tauranga))

### BARRY PEARSON



36 Kereiti Street, Tauranga 3110 PO Box 231, Tauranga 3140 07 577 6069 bpearson@sltga.co.nz www.sltga.co.nz

### **APPENDIX 5**

Reference: 30378

### **Stormwater Construction and QA Records**

- Stormwater Pipe Laying Checklist F4.11 F5.2
- Stormwater Manhole Checklist F4.12 F5.3
- Trench Backfill Compaction Test Summary F4.13
- Stormwater Backfill Compaction Test Results
- Stormwater Catchpit Checklist F4.14
- Stormwater Final Inspection Checklist F4.6
- CCTV submission email

# F4.2 STORMWATER PIPE LAYING CHECKLIST

| Engineering plan number(s):      | v   |      |   |      |   |      |   |      |          |      |
|----------------------------------|-----|------|---|------|---|------|---|------|----------|------|
| Name of certified drainlayer:    | tro | Ś    | S | +    | + | -    |   | _    | _        | 4    |
| Location: Pipe length (MH To MH) | 3   | to = | 5 | to C | 5 | to 5 | 9 | to 3 | <u>~</u> | to_J |

### Pipe Laying Checks

| Trench Safety   |       | T |     |     |   |
|---|-------|---|-----|-----|---|
| (a) Shield<br>(b) Batter<br>(c) Other   | B D D |   | 000 | 000 |   |
| Pipe size, quality, manufacturer, on acceptable products list   |       |   | 9   | 8   | 9 |
| - Surveyors name Online - Set out checked   | 0     | 8 | 0   | 00  |   |
| Foundation support attached     Dynamic cone penetrometer (DCP) results     if under cutting required, note metreage and DCP results. |       |   |     |     | 0 |
| Record daily level check and confirm on grade   | 0     |   | 0   | 8   | 0 |
| Bedding type and surround material:  40/20 - Sand   |       | 0 |     |     | 0 |
| Bulk Backfill material:  Brown Rock   | 0     |   |     | 0   |   |
| Bulk backfill compaction (DCP results from pipe to ground level attached)   | Ø     |   |     |     |   |
| Alignment – control points identified   | 0     |   | 9   | 0   | 0 |
| Pressure test witnessed and passed by Council representative.   | 0     | 0 | 0   | 0   |   |
|   |       |   |     |     |   |

### Service connections

| All service connections in place, taped, and staked | 8 | 8 |   | 0 |   |
|---|---|---|---|---|---|
| As-built measurements taken, GPS located            | 0 | 8 |   | B | 8 |
| CCTV pipe inspection data and comments supplied     | 0 | 0 | 0 | 8 | 0 |

Developer/Contractor

West Construction

## F4.2 STORMWATER PIPE LAYING CHECKLIST

| Engineering plan number(s):      |                                       |
|----------------------------------|---------------------------------------|
| Name of certified drainlayer:    | - 2 - 4 - 4 - 5                       |
| Location: Pipe length (MH To MH) | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |

### Pipe Laying Checks

| Trench Safety   |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| (a) Shield<br>(b) Batter<br>(c) Other   | 0 0 | 000 | 000 | 000 | 000 |
| Pipe size, quality, manufacturer, on acceptable products list   | 0   | 0   | 0   | 4   |     |
| Set out  - Surveyors name Online  - Set out checked   |     | 8   | 8   | 0   |     |
| Foundation support attached     Dynamic cone penetrometer (DCP) results     if under cutting required, note metreage and DCP results. | 0   | 0   |     | 9   | 0   |
| Record daily level check and confirm on grade   | 0   | D   |     | 12  |     |
| Bedding type and surround material:  40/20 - Sond   | 3   | ď   | 0   | 1   |     |
| Bulk Backfill material:  Brown Rock   |     |     | 0   |     |     |
| Bulk backfill compaction (DCP results from pipe to ground level attached)   |     | Ø   |     |     | 0   |
| Alignment – control points identified   | B   | 3   | 0   |     |     |
| Pressure test witnessed and passed by Council representative.   |     | 0   |     | 0   |     |

### Service connections

| All service connections in place, taped, and staked | <b>B</b> | 0 | 0 |  |
|---|----------|---|---|--|
| As-built measurements taken, GPS located            |          |   |   |  |
| CCTV pipe inspection data and comments supplied     |          | 6 | 0 |  |

Developer/Contractor

Was Constaction

# F4.3 STORMWATER MANHOLE CHECKLIST

| Engineering Plan Numb  | per(s)    |      |         |          |      |
|--|-----------|------|---------|----------|------|
| Name of certified drain  | layer:    |      |         |          |      |
| Location: Pipe<br>length (MH To MH)  | Octlet 15 | 19,5 | 19.4    | 19,1     | 20.1 |
| Manhole Construction Checklist   | MH number |      |         |          |      |
| Manhole size, quality,<br>manufacturer on acceptable<br>materials list   |           | Þ    | Ø       |          | D    |
| Set out /orientation   | Ø         | 6    | б       | 6        | 0    |
| Sealing strip between risers   | Ø         | 6    | 0       | ď        | Ø    |
| Benching  - Height  - alignment and cross section  - half pipe lining (wastewater only)  - Step recesses (if applicable) | 20/00     | व्यव | මත් ට ( | adot     | 5500 |
| Flexible joints  | Ø         | 9    | Ø       | Ø        | Ø    |
| Cutting and plastering of<br>connections   |           | o'   | 6       | 6        | 6    |
| Access details per drawings (e.g. manhole cover sited over steps).   |           | Ø    | ď       |          | 0    |
| Step irons including epoxy to<br>outside recesses  | 6         | ø    | TZ      | 0        | Ø    |
| Bedding type and surround  | ď         | Ø    | 0       | <b>a</b> | Ø    |
| Bulk backfill compaction - Dynamic<br>Cone Penetrometer (DCP) results<br>attached  | 6         | ď    |         | ø        | 0    |
| No debris in pipelines   | Ø         | Д    | 0       | Ø        | d    |
| Pipe invert fall through manhole   | 9         | D/   | 0       | 9        | 0    |

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14/12/20

Developer/Contractor

# F4.3 STORMWATER MANHOLE CHECKLIST

| Engineering Plan Number  | er(s)     |      |      |      |          |
|--|-----------|------|------|------|----------|
| Name of certified drainla  | yer:      |      |      |      |          |
| Location: Pipe<br>length (MH To MH)  | 15.1.     | 21.2 | 21.1 | 22.2 | 22.1     |
| Manhole Construction Checklist   | MH number |      |      |      |          |
| Manhole size, quality,<br>manufacturer on acceptable<br>materials list   | 0         | •    | Ø    | 10   | 0        |
| Set out /orientation   | Ø         | Ø    | d    | Þ    | б        |
| Sealing strip between risers   | б         | Ø    | 6    |      | d        |
| Benching  - Height  - alignment and cross section  - half pipe lining (wastewater only)  - Step recesses (if applicable) | 800       | σεσι | ØĐÓ  | ØØ0: | e e o o  |
| Flexible joints  | Ø         |      | Ø    | 0    | D        |
| Cutting and plastering of<br>connections   | <b>B</b>  | Ø    |      |      |          |
| Access details per drawings (e.g. manhole cover sited over steps).   |           |      | p    | ,a   | 0        |
| Step irons including epoxy to<br>outside recesses  | Ø         | 0    |      | Ø    | 0        |
| Bedding type and surround  | Ø         |      | Ø    | 0    | D        |
| Bulk backfill compaction - Dynamic<br>Cone Penetrometer (DCP) results<br>attached  | Q         | Ø    | 0    | p    | <b>P</b> |
| No debris in pipelines   | Ø         |      | Ø    | 0    | D        |
| Pipe invert fall through manhole   | 0         | 0    | 0    | 8    |          |

hart Constitution

14/1/20

Developer/Contractor

| Technician<br>Was | Construction            | Carrying       |       |        | out                   | Tests      |
|-------------------|-------------------------|----------------|-------|--------|-----------------------|------------|
| Location: (       | Corentill               | Park S         | Stage | 13,    | 14,15                 |            |
| Plan No(s):       | 21879-                  | M-13           | -50   | 1      |                       |            |
| From MH           | 19.4-22                 | .2 -22         | to MH | ļ      |                       |            |
| Acceptance        | e Criteria: CBR         | 716            |       |        |                       |            |
| Tests by:         | hest cons               | hickory        |       |        |                       | (attached) |
|                   | Analysis of Results     |                |       |        |                       |            |
| Trend as follows  | ch backfill completed s | satisfactorily | or 🗖  | Trench | backfill requires rem | edial work |
| West              | - Cortrutes             | 1              |       |        | 72 - 2                |            |
|                   | Developer/Contrac       | tor            |       | Date   | 14/1/20               |            |

| Technician WeST (c          | Carrying                                | out                       | Tests           |
|-----------------------------|---|---------------------------|-----------------|
| Location: Go                | centril Park Stag                       | e 13-14-15                |                 |
| Plan No(s): 217             | 879-M-13-SI                             | 01                        |                 |
| From MH                     | 15.2-15.1 to                            | мн                        |                 |
| Acceptance Criteri          | a: CBR>15                               |                           |                 |
| Tests by: Wes               | - Costade                               |                           | (attached)      |
| Analys                      | sis of Results                          |                           |                 |
| Trench backf<br>as follows: | fill completed satisfactorily <u>or</u> | ☐ Trench backfill require | s remedial work |
| West                        | Contraction                             | 75                        |                 |
| Devel                       | loper/Contractor                        | Date 14/12/20             | o o             |

| Technician<br>Wes | Construction         | Carrying 20     | М       | 9      | out                        | Tests      |
|-------------------|----------------------|-----------------|---------|--------|----------------------------|------------|
| Location: 6       | reedid               | Pare 8          | Hage    | _      | 3,14,15                    |            |
| Plan No(s): 2     | 21879-               | M- 12           | 5-5     | OIL    |                            |            |
| From MH           | 9.1-21.2-            | -21.1           | _ to MH |        |                            |            |
| Acceptance Cri    | teria: CBR           | 716             |         |        |                            |            |
| Tests by: 4       | 1851 Cars            | Nacken          | L       |        |                            | (attached) |
| Ana               | alysis of Results    |                 |         |        |                            |            |
| Trench ba         | ackfill completed sa | itisfactorily g | or 🗖    | Trench | backfill requires remedial | work       |
| Was               | - Construct          | les_            |         |        |                            |            |
| De                | eveloper/Contract    | or              |         | Date   | 14/12/20                   |            |

| Technician WS         | (orshud            | Carrying 201   | .1          |        | out               |          | Tests      |
|-----------------------|--------------------|----------------|-------------|--------|-------------------|----------|------------|
| Location:             | mentill            | Pale           | Stage       | 131    | 14,15             |          |            |
| Plan No(s):           | 21874-1            | 1-13-S         | OT          |        |                   |          |            |
| From MH               | 9.4-19.1-          | -20.1          | to MH       | ţ      |                   |          |            |
| Acceptance C          | interia: CBR       | 716            |             |        |                   |          |            |
| Tests by: W           | 257 Corol          | entres         |             |        |                   |          | (attached) |
| Ar                    | nalysis of Resul   | s              |             |        |                   |          |            |
| Trench to as follows: | backfill completed | satisfactorily | <u>or</u> 🗖 | Trench | backfill requires | remedial | work       |
| West                  | Constantilo        | 1              |             |        |                   |          |            |
| 0                     | Developer/Contra   | actor          |             | Date   | 14/12/20          |          |            |

# F4.5 STORMWATER CATCHPIT CHECKLIST

| Location:  | 117 | 118 | 119 | 114 | 115 |  |  |  |  |  |
|--|-----|-----|-----|-----|-----|--|--|--|--|--|
| Catchpit Number  Catchpit Construction Checklist             |     |     |     |     |     |  |  |  |  |  |
| Catchpit , type, size, quality, accepted<br>material checked | 0   | 8   | G   | 8   | -0  |  |  |  |  |  |
| Set out /orientation   | 0   | 0   | 4   | D.  | 旦   |  |  |  |  |  |
| Location checked   | Ø   | Ø   | ø   |     | 0   |  |  |  |  |  |
| Depth of sump below outlet correct                           | Ø   | 0   | 0   |     | 0   |  |  |  |  |  |
| Cutting and plastering of outlet connection                  | 0   | ď   | Ø   | 0   | D'  |  |  |  |  |  |
| Floating debris baffle installed correctly                   | ø   | 0   | 0   | 0   | d   |  |  |  |  |  |
| Backfill compaction around pit checked                       | 6   | ď   | ď   | 0   | ď   |  |  |  |  |  |
| Seating and plastering of surround and grate to sump barrel  | ď   | 6   | 0   | 0   | 6   |  |  |  |  |  |
| All silt and debris removed from sump                        | Ø   | 0   | /   | 0/  | Ð   |  |  |  |  |  |

Developer/Contractor

# F4.5 STORMWATER CATCHPIT CHECKLIST

| Location:  | ES 1050 T | \$0 (CS) |           |          |     |
|--|-----------|----------|-----------|----------|-----|
|  | 107       | 108      | 087       | 101      | 109 |
| Catabank Canadanadlan Charletted   |           | Cat      | chpit Num | ber      |     |
| Catchpit Construction Checklist Catchpit , type, size, quality, accepted |           |          | - 6       |          |     |
| material checked   | 0         | P        |           | D        | B   |
| Set out /orientation   | ď         | d        | б         |          | 6   |
| Location checked   | 0         | <b>1</b> |           |          | 0   |
| Depth of sump below outlet correct                                       | ď         | 0        | 0         | <b>D</b> | 0   |
| Cutting and plastering of outlet connection                              | б         | Ø        | <b>B</b>  | <b>D</b> | 0   |
| Floating debris baffle installed correctly                               | 0         |          | Q'        | ď        | 0   |
| Backfill compaction around pit checked                                   | 0         | <b>a</b> | <b>2</b>  | 8        | •   |
| Seating and plastering of surround and grate to sump barrel              | 6         | <b>a</b> | Ø         | <b>Q</b> | 9   |

Developer/Contractor

West Cosquetan

All silt and debris removed from sump

# F4.5 STORMWATER CATCHPIT CHECKLIST

| Location:  | 116 | 112      | 113        | 111 | 110        |
|--|-----|----------|------------|-----|------------|
| Catchpit Construction Checklist                              |     | Car      | tchpit Num | ber |            |
| Catchpit , type, size, quality, accepted<br>material checked | 8   | 8        | D.         | Ø   | -          |
| Set out /orientation   | 0   | Ø        | Ø          | 8   |            |
| Location checked   | Ø   | 12       | 0          |     | 6          |
| Depth of sump below outlet correct                           | Ø   | 0        | 0          | P   | Ø          |
| Cutting and plastering of outlet connection                  | 0   |          | 0          | 0   | 0          |
| Floating debris baffle installed correctly                   | Ø   | 0        | ø          | 0/  | ď          |
| Backfill compaction around pit checked                       | 0   | <b>a</b> | Ø          | O/  | Q          |
| Seating and plastering of surround and grate to sump barrel  | D'  | <b>B</b> | Ø.         | ď   | 6          |
| All silt and debris removed from sump                        | ø   | 0/       | Ø          | 0   | <b>a</b> / |

Developer/Contractor

West Construction

# CHECKLIST F4.6 STORMWATER PIPE NETWORK - FINAL INSPECTION

| S    | Site/Location: GREENININ POWLE StogE'S 13, 14, 15                                  | 415       |                      |
|------|--|-----------|----------------------|
| D    | Developer/Contractor: West (enstruction  |           |                      |
| SUB  | JB/ Contract No:   |           |                      |
| PR   | PRE-MEETING TASKS  |           |                      |
| De   | Developer to verify checklist prior to meeting:                                    | Developer | Council<br>Rep Check |
| -    | All relevant stormwater checklists completed                                       | Q         | 0                    |
| 12   | All lines flushed out  | Q         | 0                    |
| ω    | All required CCTV inspections carried out, reviewed and any re-<br>work completed. | R         | 0                    |
| 4    | All manholes checked (eg.infiltration, plastering)                                 | Q         | 0                    |
| ĊΠ   | All backfilling complete and tidled up   | N         | 0                    |
| 0    | Final as-built and operational plans attached for site inspection                  | 0         | 0                    |
| ST   | SITE MEETING   |           |                      |
| -    | Inspect all lines  |           | 0                    |
| 'n   | inspect all manholes and catchpits   | 0         | 0                    |
| ω    | Works on third party land completed to satisfaction of owner                       | 0         | 0                    |
| 4    | Overland flow to and from adjoining properties not affected                        | 0         | 0                    |
| , in | Remedial work required?  | 6         |                      |
| 2    | - Construction Council   |           |                      |
| De   | Developer Council  |           |                      |
| 2    | 9/3/2/   |           |                      |

# F5.6 WAST WASTEWATER PIPE NETWORK - FINAL INSPECTION

### **BACKFILL RESULT SHEET**

TESTED BY: West Construction

PROJECT NAME: Greenhill Park Stages 13,14,15

| PROJECT NAME: | : Greenhill Park Stages 13,14,15 |                       |
|---------------|----------------------------------|-----------------------|
| Chainage      | C/L Trench(CIV VALUES)           | Remarks               |
| SWMH 19.5     | 1ST LIFT                         |                       |
| 10            | NA                               | BERM                  |
| 20            | NA                               | BERM                  |
| 30            | 21                               | BROWN ROCK 1M TESTS   |
| 40            | 23                               | BROWN ROCK 1M TESTS   |
| SWMH 19.4     |                                  |                       |
| 10            | 19                               | BROWN ROCK 1M TESTS   |
| 20            | 23                               | BROWN ROCK 1M TESTS   |
| 30            | 21                               | BROWN ROCK 1M TESTS   |
| 40            | 25                               | BROWN ROCK 1M TESTS   |
| 50            | 26                               | BROWN ROCK 1M TESTS   |
| 60            | 24                               | BROWN ROCK 1M TESTS   |
| 70            | 21                               | BROWN ROCK 1M TESTS   |
| SWMH 22.2     |                                  |                       |
| 10            | 25                               | BROWN ROCK 1M TESTS   |
| 20            | 26                               | BROWN ROCK 1M TESTS   |
| 30            | 24                               | BROWN ROCK 1M TESTS   |
| 40            | 17                               | BROWN ROCK 1M TESTS   |
| 50            | 24                               | BROWN ROCK 1M TESTS   |
|               | 24                               | BROWN ROCK IN 12010   |
| SWMH 22.1     |                                  |                       |
|               |                                  |                       |
| SWMH 19.4     |                                  |                       |
| 10            | 19                               | BROWN ROCK 1M TESTS   |
| 20            | 20                               | BROWN ROCK 1M TESTS   |
| 30            | 23                               | BROWN ROCK 1M TESTS   |
| 40            | 24                               | BROWN ROCK 1M TESTS   |
| 50            | 29                               | BROWN ROCK 1M TESTS   |
| 60            | 27                               | BROWN ROCK 1M TESTS   |
| 70            | 23                               | BROWN ROCK 1M TESTS   |
| SWMH 19.1     |                                  |                       |
| 10            | 24                               | BROWN ROCK 1M TESTS   |
| 20            | 29                               | BROWN ROCK 1M TESTS   |
| 30            | 27                               | BROWN ROCK 1M TESTS   |
| 40            | 23                               | BROWN ROCK 1M TESTS   |
| 50            | 24                               | BROWN ROCK 1M TESTS   |
| 60            | 28                               | BROWN ROCK 1M TESTS   |
| 70            | 21                               | BROWN ROCK 1M TESTS   |
| SWMH 21.2     |                                  |                       |
| 10            | 30                               | BROWN ROCK 1M TESTS   |
| 20            | 25                               | BROWN ROCK 1M TESTS   |
| 30            | 26                               | BROWN ROCK 1M TESTS   |
| 40            | 22                               | BROWN ROCK 1M TESTS   |
| SWMH 21.1     |                                  |                       |
|               |                                  |                       |
| SWMH 19.1     |                                  |                       |
| 10            | 27                               | BROWN ROCK 1M TESTS   |
| 20            | 29                               | BROWN ROCK 1M TESTS   |
| 30            | 19                               | BROWN ROCK 1M TESTS   |
| 40            | 24                               | BROWN ROCK 1M TESTS   |
| 50            | 23                               | BROWN ROCK 1M TESTS   |
| 60            | 24                               | BROWN ROCK 1M TESTS   |
| 70            | 22                               | BROWN ROCK 1M TESTS   |
|               |                                  | BROWN ROCK 1M TESTS   |
| 80            | 24                               | PUOMIN LOCK TIM 15212 |
| SWMH20.1      |                                  |                       |
|               |                                  |                       |
| SWMH15.2EX    |                                  |                       |
| 20            | 21                               | BROWN ROCK 1M TESTS   |
| 30            | 23                               | BROWN ROCK 1M TESTS   |
| 40            | 24                               | BROWN ROCK 1M TESTS   |
| 50            | 21                               | BROWN ROCK 1M TESTS   |
| SWMH15.1      |                                  |                       |
|               |                                  |                       |
|               |                                  |                       |

### **Barry Pearson**

From:

Barry Pearson (Shrimpton and Lipinski Limited Partnership (HQ - Tauranga))

<br/>bpearson@sltga.co.nz>

Sent:

Tuesday, 13 April 2021 3:24 PM

To:

Martyn Smith (Hamilton City Council (Hamilton))

Subject:

Document Issue No. 9 - Stage 15 GHP - CCTV SW and WW

Attachments:

19-30378-03 - Greenhill Park - Area M Stage 13, 14 and 15 - Issue 9.pdf

# 19-30378-03 - Greenhill Park - Area M Stage 13, 14 and 15 Issue 9

Issued by: Barry Pearson (Shrimpton and Lipinski Limited Partnership)

On: 13 Apr 2021

Stage 15 GHP - CCTV SW and WW for Review

Note that we intend to submit our Greenhill Park engineering works completion report to HCC approx. 14th April 2021 for review and approval.

Thanks

### Access the documents for this issue

### Recipients:

Martyn Smith (Hamilton City Council (Hamilton))

Lance Parkes (Hamilton City Council (Hamilton))

Murray Giles (Hamilton City Council (Hamilton))

Barry Pearson (Shrimpton and Lipinski Limited Partnership (HQ - Tauranga))

Mark Derksen (Shrimpton and Lipinski Limited Partnership (HQ - Tauranga))

### BARRY PEARSON



36 Kereiti Street, Tauranga 3110 PO Box 231, Tauranga 3140 07 577 6069 bpearson@sltga.co.nz www.sltga.co.nz

### **APPENDIX 6**

Reference: 30378

# **Landscaping Certifications**

Landscaping final inspection form requested from HCC

### **APPENDIX 7**

Reference: 30378

### **Network Utilities Certifications**

- Ultrafast Fibre Completion Letter
- First Gas Completion Letter
- Street Light Product Warranty
- WEL Completion Letter
- Street light Suppliers Declaration of Conformity
- Streetlight Producer Statement
- Streetlight COC & ROI Certificates
- HCC Form Street Light RAMM Data

Ref: S&L Consultants, Surveyors & Engineers – 20413-S15

ID: HN-086-18



0800 342 735 info@ultrafast.co.riz

ultrafastfibre.co.nz.

## 27th of March 2021

## ACCEPTANCE BY ULTRAFAST FIBRE LIMITED AS TELECOMMUNICATIONS OPERATOR

Subdivision: Greenhill Park Ruakura Residential Stage 15 (27 Lots), Lot 702, DP 534481, Chartwell, Hamilton.

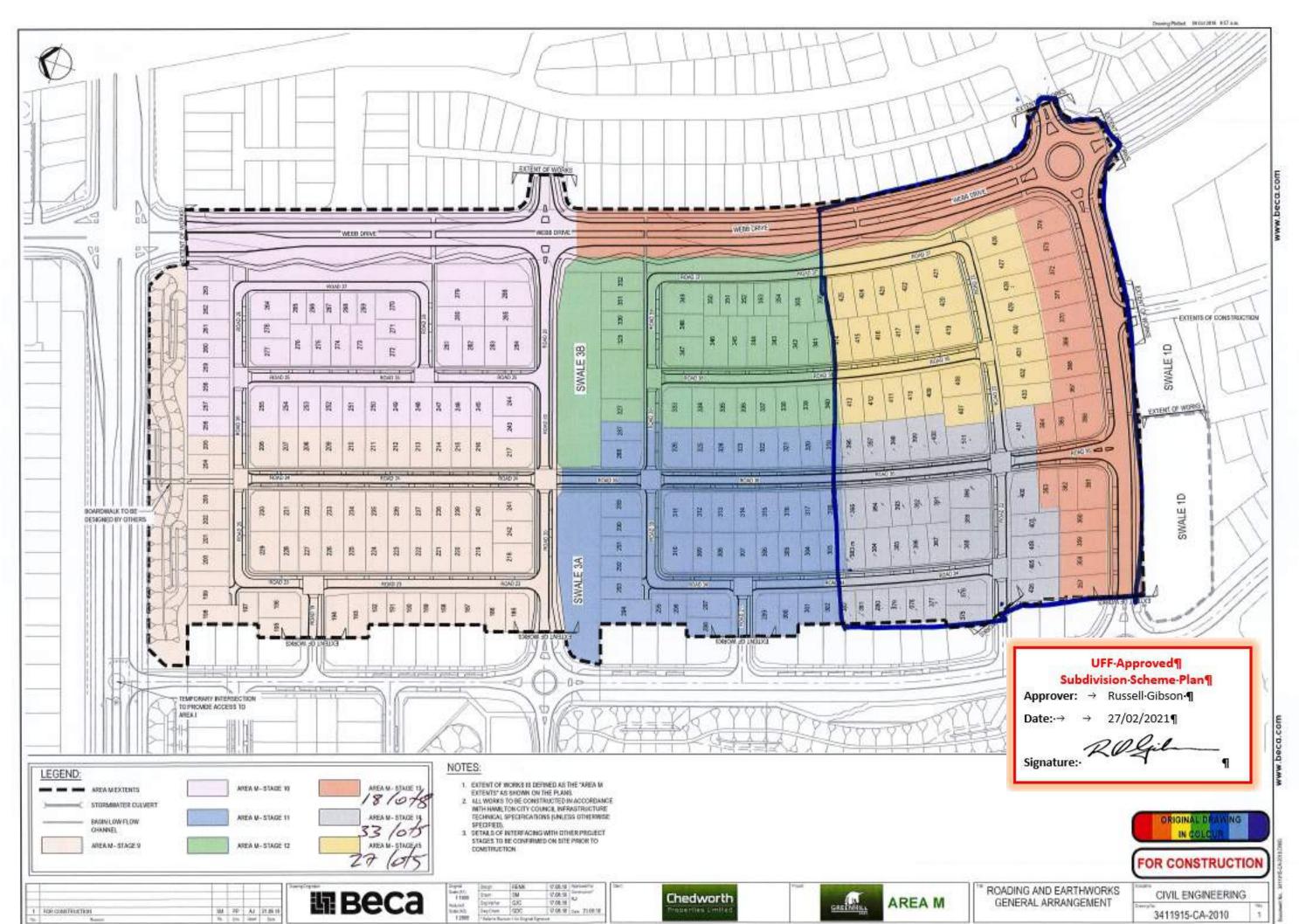
- Ultrafast Fibre Limited (UFF) confirms that UFF will be the telecommunications operator of the telecommunications reticulation in the proposed public roads for the Ruakura Residential Stage 15 [Greenhill Park] Hamilton, Subdivision by Chedworth Properties Ltd. (the "Subdivision") Lot 702, DP 534481, to provide network connections to Lot 407 through to Lot 433, in the Subdivision (the "Reticulation").
- 2. The Reticulation is now installed in accordance with:
  - (a) the requirements and standards set by the Hamilton City Council and advised to UFF via the Council's website; and
  - (b) the requirements of the Telecommunications Act 2001 and all other applicable laws, regulations and codes (as amended).
- 3. The Reticulation has been installed by Broadspectrum Limited to UFF's satisfaction, for the specific subdivision lots detailed on the "final" Scheme Plan as attached, with UFF remaining the owner, operator and maintainer of the Reticulation.
- 4. The attached "final" Scheme Plan must match your submission to the Hamilton City Council and must have the UFF stamp of 'Approval' accompanied by sign-off. Any additional lots created after initial deployment of multi-duct/fibre infrastructure will be chargeable.
- 5. One or more retail service providers will be available to supply telecommunications services over the completed Reticulation when service is available, provided that UFF shall not be responsible if the retail service provider's offer to supply such telecommunications services or the number of such providers varies from time to time.

**SIGNED** for and on behalf of **ULTRAFAST FIBRE LIMITED** by:

Signature:

Name: Russell Gibson

Date: 27<sup>th</sup> of March 2021





## **Completion Certificate**

To: Chedworth Properties Limited

From: Paul Bird

Cc: Barry Pearson

Date: 7 April 2021

## SUBJECT: Greenhill Park Subdivision – Stage 15

(First Gas Distribution Network)



## **MESSAGE:**

This Completion Certificate confirms that the First Gas Distribution Network installed at the above-mentioned development, has been laid, tested and commissioned in accordance with First Gas Technical Standards and relevant Gas Regulations.

Regards

Paul Bird

Distribution Accounts Manager - New Developments

Firstgas

First Gas | Level 6, Resimac House | 45 Johnston St | Wellington | 6011

**DDI** 04 979 5367 | **M** 027 531 0060 | <u>firstgas.co.nz</u>



## **DESIGN CERTIFICATE**

## INFRASTRUCTURE/ LAND DEVELOPMENT

ISSUED BY: Merritt C Strickett.

TO: Chedworth Properties Ltd

TO BE SUPPLIED TO: Hamilton City Council

IN RESPECT OF: Greenhill Park Stage 15, Hamilton

AT: Carrs Road, Hamilton

Merritt C Strickett has been engaged by Chedworth Properties Ltd

To provide Street Lighting Design to AS/NZS1158 Standard and to Hamilton City Councils Code of

Practice and RITS code of practice.

in respect of the infrastructure/land development described above.

Drawing references - REF 7141

I Merritt C Strickett have the qualifications and experience relevant to this project as set out herein and have designed the subject works and confirm that the design is to current good engineering practice, and that it satisfies all relevant Resource Consent conditions, relevant TA requirements, and applicable codes and standards. My company holds professional indemnity insurance in the sum of \$5,000,000.00

Qualifications and experience

NZIHT Workshop, 32 years' experience in Street lighting design.

Efficient Road Lighting Resource Workshop.

ae

Date: 10 November 2020



10 November 2020 Ref: 7141

## PRODUCER STATEMENT FOR STREET LIGHTING

Project: Greenhill Park Area M Stage 15

Location: Carrs Road Hamilton

The lighting for this Project has been designed to comply with the New Zealand standard AS/NZS1158.3.1.2020 for PR4 and PR5 using Perfectlite and AGI32 lighting design software and in conjunction with the Hamilton City Council and RITS Code of Practice requirements

Product The P Category luminaires are Mini Stork 4 LED Optic P, 3000K, and the lighting columns

and outreach arms are manufactured from steel which is hot dipped galvanised after

fabrication and then coated with a 10 year warranty paint finish

Lifetime The luminaire have an economic life of 15-20 years where normal maintenance is carried out.

The pole and outreach have an economic life of 40 years.

Yours Faithfully
IBEX INTERNATIONAL LIMITED

MERRITT STRICKETT

Account Manager - Roadway M +64 21 220 1291 T +64 9 915 1083

merritts@ibexlighting.com

IBEXLIGHTING.COM



## IBEX 10 Year Limited Warranty – Project Warranty

Date: 04-03-2021

Project: Greenhill Park, Stage 15 Ref: 7141-00

Issued To: Chedworth Properties Limited

Transfer Provision: Hamilton City Council

a) This limited warranty is provided by Ibex International limited ("Ibex") in relation to the following products;

Luminaire – Vizulo Mini Stork Lens21 (5 year warranty)

Column - 6m Tapered column with 'Milford' Outreach (10yr Warranty Black paint Finish)

- b) Ibex warrants to the purchaser that it will deliver the product in new condition in the product's factory packaging. Further, the product will be free of defects in materials and/or workmanship for the warranty period stated.
- c) Ibex has sole discretion as to whether any warranty claim shall be valid considering all factors including (without limitation) the operating conditions the product has endured and the overall performance of the product. this warranty is only valid when proof of purchase can be provided and if the product has been operating within New Zealand
- d) The warranty period commences from the date of Ibex's invoice or the product's delivery date whichever is the earlier.
- e) If Ibex determines that a warranty claim is valid, Ibex will at its sole discretion either refund the purchase price of the product, refund the current market cost of an alternative product, repair the product or replace the product. In case of the repair or replacement the replacement product may not necessary be an identical product but an improved version due to ongoing technological developments and/or supply of original components currently available.
- f) lbex reserve the right to recondition/refurbish any article that is subject to a warranty claim or replace parts with new or used parts in satisfaction of this warranty.

### 2 - Warranty Exclusions

- a) This warranty excludes any costs incurred by the purchaser including (without limitation) equipment hire, labour charges, accommodation charges, transport charges and travel charges. b) This warranty does not apply to loss or damages to the product caused by one or more of the following:
- Negligence and/or incorrect handling of the product by the buyer, installer, service agent or any other party acting on behalf or for the buyer;
- Improper installation;
- · Improper handling;
- the product not being installed or maintained as set out in the installation instruction guide for the product;
- · Acts of nature, fire, vandalism;
- Civil disturbances;
- Damages caused by fall or collision
- Installation or operation under environmental conditions beyond the manufacturer's recommendations;
- · Power surges:
- Electrical supply fluctuations or faults;
- Mechanical failures as a result of actions not considered by Ibex to be within the normal operating conditions of the product;



Improper service and/or maintenance work carried out by someone not considered by the Ibex as an approved service agent/facilitator; and/or

- any other situation and/or event or circumstance deemed by lbex as sufficient to render this warranty void.
- c) Notwithstanding any other provision of this warranty or any statute or rule of law, to the greatest extent possible Ibex shall have no liability for any costs, damages or other losses directly or indirectly attributable to failure of the product. Further, Ibex shall have no liability for any costs incurred by any party for any maintenance or remedial work.

### 3 - Product performance

- a) Ibex retains the sole discretion to determine whether a product is defective.
- b) This warranty shall apply only to the malfunction of products due to defects in material and or workmanship exceeding nominal failure rates. Unless otherwise stipulated in the product and application specifications provided by Ibex, the nominal failure rate for electronic operating devices and components such as LED's shall be set at 0.2% per 1000 operating hours. Furthermore a decrease in luminous flux of up to 0.6% per 1,000 operating hours and colour shift as per the LED Module /chip suppliers technical data information shall be considered normal and is not covered by this warranty.
- c) In the event that LED modules/Chips are replaced, lighting properties may vary from the original product.

### 4 - Warranty Transfers

this warranty may not be transferred to any entity without either the express written consent of Ibex or this being explicitly stated in the cover notes of this document. Ibex may withhold such consent at its sole and absolute discretion.

### 5 - Warranty Terms and Conditions

- a) In the event where a warranty is claimed on a product which is not faulty, lbex reserves the right to seek compensation from the entity claiming on the warranty for all costs that have been incurred by Ibex including (without limitation) travel, accommodation, costs of access equipment, and third party service agents' costs.
- b) The warranty terms are those specified in wiring in this warranty document only.
- c) Ibex's warranty is a back-to-base warranty. Ibex shall bear no responsibility of any charges incurred by any entity for transport of the product to Ibex and/or from Ibex to the warranty claimant.
- d) Labour and Service charge incurred by Ibex in repairing / refurbishing any product are not covered in this warranty.
- e) The warranty shall be void if the product has been tampered with or parts replaced by personnel that have not be previously authorised by Ibex in writing.

Ibex reserves the right to modify this warranty at any time without prior notification and the new warranty terms shall be valid for all orders placed with the Ibex on or after the new issue date, from the date that the new warranty terms are posted on Ibex's website.

| <b>△</b> E   | LECTRICAL CERTIFICATE OF C  | OMPLIANCE & ELECTRIC   | CAL SAFETY CERT  | TIFICATE   |
|--|---|--|--|--|
|  |   | COC1579  <br>need electrical workers to certify that   | installations or Part insta  |  |
| Location Details:  | Subdivision Area M - Stag   |  | CONTRACTOR OF  | 107  |
| Contact Details:<br>(Name and address)   |   |  |  |  |
| Name of Electrical<br>worker:  | Yeti Martyn   | Registration/Practising  | E257490  |  |
| hone & email:  | yetimartyn@hotmail.com  |  |  |  |
| lame and registration<br>f person(s) supervis  |   |  |  |  |
| Certificate of Con<br>Type of work:<br>The prescribed electr   | Addition Addition   | Alteration General   | New work High-risk (Specific   | vl:  |
| Means of compliance  | 하다  |  | 4 Control (10 Cont |  |
|  | s or electrical code of practice were<br>es that prescribed electrical work u                           | The state of the s | specify):  |  |
|  | t are safe to connect to a power sup  | pply? 🔳 Yes [  | No   |  |
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|  | an earthing system that is correctly  |  | Yes 🔲  | No   |
|  | ion to which this certificate relates   | that are safe to connect to a  | power supply?  |  |
| All Parts (spe   | nanufacturers instructions:   | ■ Yes  | 7 No   |  |
|  | ction manual including name, date and version   | The state of the s |  | oficate.   |
| Or provide reference to n<br>Identify: Manufacturers and   | eadily accessible efectronic format, eg Intern<br>nuclans altachet. VIOLU Block LIRk Brother LED atreet | et link.)  |  |  |
| Link:<br>The work has been d   | done in accordance with a certified   | design: Yes  | No No  |  |
| f yes – identify the certific  | ed design including name, date and version.   | Also attach a copy of the certified des  | ign to this certificate.   |  |
| and the baseline and the second secon | eadily accessible electronic format, eg Intern<br>schot Rosdwy Lighing Plan chaving                     | et link)   |  |  |
| Link:  | screen Hospital Chang Line crawing  | 2000   | 1400   |  |
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| Description of Worl  | k:  |  |  | rovide values)   |
|  | eet Column with LED Head  |  | Polarity<br>(Independent earth):   |  |
|  | ard, Main Earth and Earth S   | Stake, Cad Welded  | Insulation resistance:   | 200+ M Ohms  |
| Connection - I   | [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]   |  | Earth Continuity:  | 0.1 Ohms   |
|  | flains Installation by others.  |  | Bonding  | 0.1 Ohms   |
| Livened by other   | ers.  |  | Fault Loop impedance   | Ohms   |
|  |   |  | Other (specify):   | 14/2 (17/0 a 40/0 d)   |
|  | ment I certify that the completed p<br>ne lawfully and safely, and the info                             |  |  | of Compliance  |
| rtifier's signature:   | 49111   | Date: 20.  | /02/2021   |  |
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| Electrical Safety  | pertificate<br>ment I certify that the installation   | or part of the installation t  | o which this Flectric  | al Safety Certificate  |
|  | to a power supply and is safe to u  |  | 28 1006  |  |
| Certifier's  |   | Registratio  | n/Practising   |  |
| name:  |   | licence nun  | 777 28-0 4   |  |
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|--|--|---|--|--|--|
| Location Details:  | Subdivisio   | n Area M - Stage 9  | to 15 Greenhill Part   | k Hamilton #   | 109  |
| Contact Details:<br>(Name and address)   |  |   |  |  |  |
| Name of Electrical<br>worker:  | Yeti Ma  | ırtyn   | Registration/Practising licence number:  | E257490  |  |
| Phone & email:   |  | yetimartyn@hotmail.com  |  |  |  |
| Name and registration<br>of person(s) supervis   | 7.000  |   |  |  |  |
| Certificate of Con<br>Type of work:<br>The prescribed elect  |  | Addition Low risk   | ☐ Alteration<br>☐ General  | New work High-risk (Specify  | rit  |
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| hone & email:  |  | yefmartyn@hotmail.com  |  | 1  |  |
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| A E  | LECTRICAL  | CERTIFICAT   | E OF CO  | MPLIANCE & I  | ELECTRIC   | AL SAFETY CER                               | TIFICATE      |              |
|--|--|--|--|---|--|---|---------------|--------------|
|  | is form has been   |  | sed by licenses  | C1579 4-<br>d electrical workers to<br>the specified system   |  | installations or Part inst<br>supply.       | allations und | er Part 1 or |
| ocation Details:   | Subdivis   | ion Area M   | - Stage 9  | 9 to 15 Green   | hill Parl  | Hamilton :                                  | # 1//         |              |
| Contact Details:<br>Name and address)  |  |  |  |   |  |   |               |              |
| lame of Electrical<br>vorker:  | Yeti M   | artyn  |  | Registration/F  |  | E257490                                     |               |              |
| hone & email:  |  | yetmertyn@hob  | mail.com   |   |  |   |               |              |
| lame and registratio<br>f person(s) supervis                                       |  |  |  |   |  |   |               |              |
| ertificate of Com<br>ype of work:<br>he prescribed electr                          |  | Addit  | 1937   | ☐ Altera  |  | New work High-risk (Spec                    | ify);         |              |
| leans of compliance  |  |  | of AS/NZS  | A CONTRACT OF THE PARTY OF THE | of AS/NZS  | TO 100 100 100 100 100 100 100 100 100 10   |               |              |
| ate or range of date   |  |  |  | parameter and a second  |  | percust 1-5                                 |               |              |
| ontains fittings that  | process.   | CONTRACTOR AND ADMINISTRATION OF THE PARTY O | ower supply  | R 🔳 Y   | res 🗀  | No No                                       |               |              |
| pecify type of suppl   | The state of the s |  | and the same of th | A de la constantina   |  |   |               |              |
| he installation has a<br>arts of the installati                                    |  |  |  |   | , , , , , , , , , , , , , , , , , , ,  |   | No            |              |
| All Parts (spe   | CY1000 Y 240   | una cerentate  | reserves the   | care sare to com  | nect to a p  | ower supply:                                |               |              |
| ne work relies on m  |  | instructions:  |  |   | es [   | No.   |               |              |
| yes – identify the instruc   | tion manual incl   | uding name, date   | and version. A   |   | The state of the s |   | rtificate.    |              |
| or provide reference to re<br>Identify: Warelacture's less<br>Link:                | sadily accessible  | electronic format,   | , og Internet lir  | sk.)  |  |   | 14.00000      |              |
| he work has been d   | one in accord  | dance with a c   | ertified des   | ign: 🔳 🕥  | res [  | ] No  |               |              |
| yes – identify the certifie  |  |  |  |   | entified desig   | n to this certificate.                      |               |              |
| or gravide reference to re<br>Identify: Certifed lesign site<br>Link:              |  | Andrew to the second   | eg internet lie  | k.)   |  |   |               |              |
| he work relies on a  |  |  |  |   | res 🗀  | ] No  |               |              |
| yes - identify the SDoC in<br>Or provide reference to re<br>identify: 80xC anumout |  |  |  |   | py of the SDo  | C to this certificate.                      |               |              |
| Link:  |  |  |  |   |  |   |               |              |
| he installation has bee<br>Description of Work                                     |  | y tested in acco   | rdance with  | the Electricity (Saf  | ety) Regula  | Test Results (                              | No Ye         |              |
| nstall New Stre  |  | with LED   | Hood   |   | - 1  | Polarity                                    | provide va    | nucaj        |
| nstall MEN Boa   |  |  |  | re Cad Weln   | lod  | (Independent earth):                        | 2001          | M ot         |
| Connection - L   |  | Laith and E  | .artir Otal  | c, cau weit   | led  | Insulation resistance:<br>Earth Continuity: | 0.1           | M Ohms       |
| Mains Cable, M   |  | lation by o  | thers.   |   | I  | Bonding:                                    | 0.1           | Ohms         |
| Livened by othe  |  |  | distribute   |   |  | Fault Loop impedance                        | 0.1           | Ohms         |
|  |  |  |  |   |  | Other (specify):                            |               |              |
| y signing this docum   | ent I certify  | that the comp  | leted presc  | ribed electrical v  | vork to wh   | ich this Certificate                        | of Compli     | ance         |
| oplies has been don  |  |  |  |   |  |   |               | 91630 A      |
| tifier's signature:  | 114  | >  |  |   | Date: 20/0   | 2/2021                                      |               |              |
| lectrical Safety (<br>by signing this document                                     |  | that the less  | allation or  | nart of the last-   | llation to   | which this Floats                           | al Salone     | Contificate  |
| pplies is connected  |  |  |  | part of the insta   | nauon, to  | which this electric                         | an sarety (   | eruncate     |
|  | to a power s   | upply and is s   | are to use.  |   | onletvation  | (Beactiston                                 |               |              |
| Certifier's  | to a power s   | upply and is s   | 10 430.  | 5000  | egistration,<br>cence numb   | 1 1 1 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2     |               |              |
| Certifier's<br>name:<br>Certifier's  | to a power s   |  | Certificate  | 5000  | cence numb   | 1 1 1 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2     |               |              |

| ↑ EL   | ECTRICAL             | CERTIFICATE OF COM   | IPLIANCE & ELEC                          | TRICAL SAFETY CERT                             | TFICATE   |
|--|----------------------|--|--|--|---|
|  |                      | FICATE ID No.: NWELCO  |  |  | Indiana contra Dark Con   |
|  |                      | designed to be used by licensed<br>300 are safe to be connected to             |  |  | lactions under Part 1 or  |
| ocation Details:   |                      | on Area M - Stage 9  |  | Widelia III i libraria a como                  | 112   |
| ontact Details:<br>Name and address)                         |                      |  |  |  |   |
| ame of Electrical orker:                                     | Yeti Ma              | artyn  | Registration/Pract<br>licence number:    | E257490  |   |
| none & email:  |                      | yesmartyn@hotmail.com  |  |  |   |
| ame and registration<br>person(s) supervise                  |                      |  |  |  |   |
| ertificate of Comp<br>ype of work:<br>he prescribed electric |                      | Addition Low risk  | Alteration General                       | New work High-risk (Specif                     | vi.   |
| eans of compliance:  |                      | Part 1 of AS/NZS 3   | 8000 Part 2 of A                         | S/NZS 3000                                     |   |
|  | or electrical o      | code of practice were req  | Printer printer                          | Yes (specify):                                 |   |
| ate or range of dates  | that prescri         | bed electrical work under  | rtaken: अध्यक्षम                         | 110  |   |
| ontains fittings that  | are safe to c        | onnect to a power supply   | ? 🔳 Yes                                  | □ No   |   |
| pecify type of supply  | system: 230          | IV Mains MEN   |  | The 192  |   |
| ne installation has a  | earthing sy          | stem that is correctly rate  | ed (where applicable)                    | ■ Yes □  | No  |
| arts of the installatio                                      | n to which t         | his certificate relates that   | t are safe to connect                    | to a power supply?                             |   |
| All Parts (spec  | ify)                 |  |  | 200  |   |
| he work relies on ma   | nufacturers          | instructions:  | Yes                                      | ☐ No   |   |
|  |                      | uding name, date and version. Al   |  | acturer's instructions to this cert            | ificate.  |
|  |                      | electronic format, eg Internet lin<br>ILU Stork Lille Brother LEO stræt i unio |  |  |   |
|  | ne in accord         | lance with a certified desi  | ign: 🔳 Yes                               | □ No   |   |
|  |                      | g name, date and version. Also   |  | and with the problem of the control of         |   |
|  | The second second    | electronic format, eg internet lin   |  |  |   |
| Identify: Cutted dosign altoo                                | xxi. Roedway Lightin | g Pien traverg.  |  |  |   |
| Unk  | upplier Deel         | aration of Conformity (SC  | OoC): To Yes                             | □ No   |   |
|  |                      | ate and version OR EESS registra   |  |  |   |
|  |                      | electronic format, eg internet lin   |  |  |   |
| Identify: 50cC stacked<br>Unit:                              | -                    |  |  |  |   |
|  | n satisfactoril      | y tested in accordance with  | the Electricity (Safety)                 | Regulations 2010                               | io TYes   |
| Description of Work:   |                      |  |  | Test Results (p                                |   |
|  | et Column            | with LED Head  |  | Polarity                                       |   |
|  |                      | Earth and Earth Stal   | ke Cad Welded                            | (Independent earth):<br>Insulation resistance: | 200+ M Ohms   |
| Connection - L   |                      | Lara Lara Cara Ota   | TO TO TO TO TO TO TO TO TO TO TO TO TO T | Earth Continuity:                              | 0.1 Ohms  |
|  |                      | lation by others.  |  | Bonding:                                       | 0.1 Ohms  |
| Livened by othe  |                      | nation by others.  |  | Fault Loop impedance                           | Ohms  |
| liveried by onle   |                      |  |  | Other (specify):                               | Total Control of the |
| e classica this day  | ook Leostific        | that the completed presc   | ribad alastrical wash                    |  | of Compliance   |
|  |                      | d safely, and the informa  |  |  | or compliance   |
|  | /22 1/2              | and the informa  |  | 20102/2024                                     |   |
| tifier's signature:  | 4/1/12               |  | Date                                     | : EUROZZUZ I                                   |   |
| Electrical Safety C<br>By signing this docum                 |                      | that the installation, or  | part of the installati                   | on, to which this Electric                     | al Safety Certificate   |
|  |                      | upply and is safe to use.  | p. 100.0000                              | COMPOSITION OF THE                             |   |
| Certifier's  | district of the      |  |  | tration/Practising                             |   |
| same:  |                      | 200000000  |  | e number:                                      |   |
| Certifier's  |                      | Certificate  |  | Connection Date:                               |   |
| signature:   |                      | Issue Date:  |  |  |   |

| -  | LECTRICAL CENT   | FIGATE OF COL   | ADULANCE & ELE   | CTRICAL SAFETY CER                 | TIEICATE                |
|--|--|---|--|------------------------------------|-------------------------|
|  | EFERENCE/CERTIFICATE   | NWELCO<br>ID No.: NWELCO<br>Id to be used by licensed | C1579 6<br>electrical workers to cert  | ify that installations or Part ins |                         |
| Location Details:  |  |   | the specified system of ele  |                                    | 4117                    |
| cocation becaus.   | Subdivision Ai   | ea M - Stage S  | to 15 Greenhill  | Park Hamilton                      | # //3                   |
| Contact Details:<br>(Name and address)   |  |   |  |                                    |                         |
| Name of Electrical<br>worker:  | Yeti Marty   | n   | Registration/Pract<br>licence number:  | E257490                            |                         |
| Phone & email:   | yetima   | rtyn@hatmail.com                                      |  |                                    |                         |
| Name and registration of person(s) supervise   | The state of the s |   |  |                                    |                         |
| Certificate of Con<br>Type of work:<br>The prescribed elect  | The second   | Addition<br>Low risk                                  | Alteration General   | New work High-risk (Spec           | ify):                   |
| Means of compliance<br>Additional Standards  | The state of the second | Part 1 of AS/NZS 3                                    | The second secon | S/NZS 3000<br>Yes (specify):       |                         |
| Date or range of date  |  |   | The second secon |                                    |                         |
| Contains fittings tha  | Approximate the second   |   | ?   Yes  | □ No                               |                         |
| Specify type of supp   |  |   |  |                                    |                         |
| The installation has   |  |   |  | ■ Yes L                            | No                      |
|  | SECTION AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN T | tificate relates tha                                  | t are safe to connect  | to a power supply?                 |                         |
| All Parts (sp  | ecity)<br>nanufacturers instru   | etioner   | ■ Yes  | □ No                               |                         |
| CONTRACTOR OF THE PARTY OF THE  |  |   |  | facturer's instructions to this o  | ertificate.             |
|  | eadily accessible electron   |   |  |                                    |                         |
| 17.5 0 110   | muckers attached. WOLU Stok.   | Little Brother LED street lunies                      | aire, 20/05/2019   |                                    |                         |
| Unk:<br>The work has been o  | lone in accordance s   | with a certified des                                  | ign: Ves   | □ No                               |                         |
|  |  |   | The first constitution of the first contract | led design to this certificate.    |                         |
|  | readily accessible electron  |   |  |                                    |                         |
| 0.5-0.011  | ached. Roostway Lighting Plan dra  | wing.   |  |                                    |                         |
| Unk:<br>The work relies on a   | Supplier Declaratio  | n of Conformity (SI                                   | DoC): 🔳 Yes  | □ No                               |                         |
| if yes - identify the SDoC i   | ncluding name, date and  | version OR EESS registra                              | tion. Also attach a copy of  | f the 50oC to this certificate.    |                         |
| And a second second section in the second section is a second sec | readily accessible electron  | ic format, eg Internet lir                            | ik.)   |                                    |                         |
| lidentify: SDoC attached<br>Unk:   |  |   |  |                                    |                         |
| The state of the s | en satisfactorily tester   | d in accordance with                                  | the Electricity (Safety)   | Regulations 2010                   | No ■Yes                 |
| Description of Wor   |  |   |  |                                    | (provide values)        |
| Install New Str  | eet Column with  | LED Head  |  | Polarity<br>(Independent earth):   |                         |
|  |  |   | ke, Cad Welded   |                                    | 200+ M Ohms             |
| Connection -   |  |   | 14.  | Earth Continuity:                  | 0.1 Ohms                |
|  | Aains Installatio  | n by others.  |  | Bonding:                           | 0.1 Ohms                |
| Livened by oth   |  | 95  |  | Fault Loop Impedance               | Ohms                    |
|  |  |   |  | Other (specify):                   |                         |
| By signing this docu   | ment I certify that f  | ne completed preso                                    | ribed electrical worl  | k to which this Certificat         | e of Compliance         |
|  |  |   | ition in the certificat  |                                    |                         |
| ertifier's signature:  | 6921/2   |   | Date   | 20/02/2021                         |                         |
|  | 200  |   | , Date   | MA. 1 (1) 19 (1) (1) (1) (1) (1)   | 1-1                     |
| Electrical Safety  |  | the last that   | and of the least to  | dan da sublah dita Mara            | ical Safato Continue    |
|  | iment I certify that<br>d to a power supply  |   | part or the installat  | ion, to which this Electr          | ical salety certificate |
| Certifier's  | a to a power supply  | and is sine to use.                                   | Regis  | tration/Practising                 | - 1                     |
| name:  |  |   | 3.00.00  | ce number:                         |                         |
| Certifier's  |  | Certificate   |  | Connection Date:                   |                         |
| signature:   |  | Issue Date:   | THE AMERICAN TO THE STATE OF TH | AINED FOR A MINIMUM OF 7           | VEARS                   |
| 64.16  | TOTALER CORV THE IS A  | N IMPORTANT DOCUME                                    | ENT AND SHOULD BE DET  | AUMED FOR A MINIMUM OF 7           | TEARS                   |

| A E   | LECTRICAL C  | ERTIFICATE OF COM  | APLIANCE & ELECTRI   | CAL SAFETY CERT                             | TFICATE                 |
|---|--|--|--|---|-------------------------|
|   |  | esigned to be used by licensed   | C1579 <b>7</b> /4<br>electrical workers to certify that  |   | lations under Part 1 or |
| Location Details:   | 01/07/00/00  |  | the specified system of electrical to 15 Greenhill Par   | 1975 S. S. S. S. S. S. S. S. S. S. S. S. S. | 114                     |
| Contact Details:<br>(Name and address)                      |  |  |  |   |                         |
| Name of Electrical<br>worker:                               | Yeti Ma  | rtyn   | Registration/Practising licence number:  | E257490                                     |                         |
| Phone & email:  | (c) 3/F  | yetimartyn@hotmail.com   |  |   |                         |
| Name and registration of person(s) supervises               | 100 to 10 |  |  |   |                         |
| Certificate of Con<br>Type of work:<br>The prescribed elect |  | Addition<br>Low risk   | Alteration General   | New work High-risk (Specific                | VI.                     |
| Means of compliance   |  | Part 1 of AS/NZS   | and the second   | The Publisher Co.                           |                         |
|   |  | ode of practice were req<br>ed electrical work unde  | to a contract to the contract of the contract  | specify):                                   |                         |
|   |  | nnect to a power supply  | -  | No No                                       |                         |
| Specify type of supp  |  | CONTROL OF THE CONTRO |  |   |                         |
|   |  | tem that is correctly rat  |  | Yes 🗌                                       | No                      |
|   | STATE OF THE PARTY | is certificate relates tha   | t are safe to connect to a   | power supply?                               |                         |
| All Parts (sp<br>The work relies on n                       | 3 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5  | netnictions:   | ■ Yes [  | 7 No  |                         |
|   | the state of the s |  | Iso attach a copy of manufacture   |   | ificate.                |
| (Or provide reference to r                                  | eadily accessible of   | ectronic format, eg Internet lir<br>U Slock Lillie Brother LED albeet lumin  | sk.)   |   |                         |
| Link:   | long in seconds  | wee with a contilled dec   | ign: Yes   | 7 No  |                         |
|   |  | nce with a certified des<br>name, date and version. Also   | attach a copy of the certified des   |   |                         |
|   |  | ectronic format, eg Internet lir   |  |   |                         |
| Identify: Cutified design on<br>Link:                       | ochod Readway Lighting   | Plan dowing  |  |   |                         |
|   | Supplier Decla   | ration of Conformity (SI   | DoC): Yes [  | No  |                         |
|   |  |  | ition. Also attach a copy of the Si  | DoC to this certificate.                    |                         |
|   | eadily accessible el   | ectronic format, eg Internet lir   | nk)  |   |                         |
| Identify: 8DoC attached<br>Unk:                             |  |  |  |   |                         |
|   | en satisfactorily  | tested in accordance with  | the Electricity (Safety) Regul   | ations 2010                                 | io Yes                  |
| Description of Worl   | k:   |  |  |   | rovide values)          |
| Install New Str   | eet Column   | with LED Head  | CONTROL CONTRO | Polarity<br>(Independent earth):            |                         |
| Install MEN Bo  | ard, Main E  | arth and Earth Sta   | ke, Cad Welded   | Insulation resistance:                      | 200+ M Ohms             |
| Connection -  | Light Risk   |  |  | Earth Continuity:                           | 0.1 Ohms                |
| Mains Cable, N  | Mains Install  | ation by others.   |  | Bonding:                                    | 0.1 Ohms                |
| Livened by oth  | ers.   |  |  | Fault Loop impedance                        | Ohms                    |
|   |  |  |  | Other (specify):                            |                         |
|   |  |  | cribed electrical work to w  |   | of Compliance           |
| applies has been do   | ne lawfully and  | safely, and the informa  | ition in the certificate is o  | CALL STREET                                 | 1000                    |
| ertifier's signature:                                       | 44   | 1  | Date: 20   | /02/2021                                    |                         |
| Electrical Safety<br>By signing this docu                   | ment I certify   | that the installation, or<br>pply and is safe to use.  | part of the installation, t  | o which this Electric                       | al Safety Certificate   |
| name:   |  |  | licence nur  | 1970 1 100-05 1980 1970                     |                         |
| Certifier's<br>signature:                                   |  | Certificate<br>Issue Date:   | Conn   | ection Date:                                |                         |
|   | TOMER COPY - TH  | IS IS AN IMPORTANT DOCUM   | ENT AND SHOULD BE RETAINED   | FOR A MINIMUM OF 7 YE                       | ARS                     |

|   | LECTRICAL CER  | NAMELCO  | MPLIANCE & ELECTRI<br>C15798   | CAL SAFETY CERT                                | TFICATE                                |
|---|--|--|--|--|--|
|   |  |  | delectrical workers to certify the<br>the specified system of electrical   |  | lations under Part 1 or                |
| Location Details:   |  | TO SELECT ON THE OWNER.  | to 15 Greenhill Pa   |  | 115                                    |
| Contact Details:<br>(Name and address)  |  |  |  |  |  |
| Name of Electrical<br>worker:   | Yeti Marty   | /n   | Registration/Practising<br>licence number:   | E257490  |  |
| hone & email:   | yetin  | artyn@hotmail.com  |  |  |  |
| lame and registration f person(s) supervis  | CC-Property Commercial |  |  |  |  |
| Certificate of Con<br>Type of work:<br>The prescribed electr                      | Ţ  | Addition<br>Low risk   | Alteration General   | New work High-risk (Specify                    | ek.                                    |
| Means of compliance   |  | Part 1 of AS/NZS of practice were rec  | Annual Control of the | S 3000<br>(specify):                           |  |
|   |  | electrical work unde   |  |  |  |
| [20] [20] [20] [20] [20] [20] [20] [20]   | Company of the compan | ct to a power supply   | y?   Yes   | □ No   |  |
| pecify type of supp   |  |  |  |  |  |
|   |  |  |  | Yes  | No                                     |
|   | State of the second  | ertificate relates tha   | t are safe to connect to a   | power supply?                                  |  |
| All 📗 Parts (sp   | NATE -   |  |  |  |  |
| he work relies on n   |  |  | ■ Yes  | No   | 2009                                   |
| Or provide reference to r<br>Identify: Manufacturers ins                          | eadily accessible electro  | name, date and version. A<br>onic format, eg Internet li<br>ek Litle Brother LED saxet lunir |  | er's instructions to this cert                 | incase.                                |
| Link:<br>The work has been o  | ione in accordance   | with a certified des   | ign: Yes   | □ No   |  |
|   |  |  | attach a copy of the certified de  |  |  |
| 아이가 하는 그들이 내를 받았다면 하는 것이다.  |  | onic format, eg Internet li  |  |  |  |
| Identify: Certiled design ats   | school Roedway Lighting Plan   | having.  |  |  |  |
| Unk:  | Supplier Declarati   | on of Conformity (S  | DoC): Yes  | □ No   |  |
|   |  |  | stion. Also attach a copy of the S   |  |  |
| Or provide reference to r<br>Identify: SDoC attached                              |  | onic format, eg Internet li  |  |  |  |
| Unk:<br>The installation has be   | en satisfactorily test   | ed in accordance with  | the Electricity (Safety) Regu  | lations 2010                                   | lo   Yes                               |
| Description of Worl   | A STATE OF THE PARTY OF THE PAR |  | 11   | Test Results (p                                | total district Control and Association |
| Install New Stre  |  | h LED Head   |  | Polarity                                       |  |
|   |  |  | ke, Cad Welded   | (Independent earth):<br>Insulation resistance: | 200+ M Ohms                            |
| Connection -  |  | und Editii Old   | Toron Francis  | Earth Continuity:                              | 0.1 Ohms                               |
| Mains Cable, N  |  | on by others   |  | Bonding:                                       | 0.1 Ohms                               |
| Livened by oth  |  |  |  | Fault Loop impedance                           | Ohms                                   |
|   | 70.000 c   |  |  | Other (specify):                               | 1400000                                |
| by rigning this docu  | ment I certify that  | the completed pres   | cribed electrical work to  | which this Certificate                         | of Compliance                          |
|   |  |  | ation in the certificate is  |  | or compliance                          |
| rtifler's signature:  | 1114   |  | Date: 20   | 0/02/2021                                      |  |
|   | Cartificati  |  | , Date, Car  |  |  |
| Electrical Safety,<br>By signing this docu<br>applies is connected<br>Certifier's | ment I certify tha   |  | part of the installation,  | to which this Electric                         | al Safety Certificate                  |
| name:   |  |  | licence nu   | mber:  |  |
| Certifier's   |  | Certificate  | Con  | section Date:                                  |  |
| signature:  | TOTAL CORN THE IS  | Issue Date:  | ENT AND SHOULD BE RETAINED   | COR A MINISH IN OF 7 VE                        | ADE                                    |

| A E   | LECTRICAL CER  | TIFICATE OF CON   | APLIANCE & ELECT   | RICAL SAFETY CERT                                  | TFICATE                 |
|---|--|---|--|--|-------------------------|
|   | EFERENCE/CERTIFICATI   |   |  |  |                         |
|   |  |   | electrical workers to certify<br>the specified system of elect   | that installations or Part instal<br>rical supply. | lations under Part 1 or |
| Location Details:   |  |   | to 15 Greenhill F  | MODERN CO. Laurence Co.                            | 116                     |
| Contact Details:<br>(Name and address)                      |  |   |  |  |                         |
| Name of Electrical<br>worker:                               | Yeti Marty   | /n  | Registration/Practisi  | E257490  |                         |
| hone & email:   | yetim  | iartyn@holmail.com  | 10-  |  |                         |
| Name and registration<br>of person(s) supervis              | 1. 44.79   |   |  |  |                         |
| Certificate of Con<br>Type of work:<br>The prescribed elect |  | Addition<br>Low risk  | Alteration General   | New work High-risk (Specifi                        | a:                      |
| Means of compliance   | e: [   | Part 1 of AS/NZS  | 3000 R Part 2 of AS/   | NZS 3000   |                         |
|   |  | of practice were req  | The state of the s | es (specify):                                      |                         |
| late or range of date                                       | es that prescribed o   | electrical work unde  | Tanana .   |  |                         |
|   | The second secon | ct to a power supply  | /?   Yes   | □ No   |                         |
| ipecify type of supp  | ly system: 230V Mai  | ins MEN   |  |  |                         |
| he installation has   | an earthing system   | that is correctly rat   | ed (where applicable)  | ■ Yes □  | No                      |
| arts of the installat                                       | ion to which this c  | ertificate relates tha  | t are safe to connect to   | a power supply?                                    |                         |
| All Parts (sp   | ecify)   |   |  |  |                         |
| The work relies on n  |  |   | Yes  | □ No   |                         |
|   |  |   |  | turer's instructions to this cert                  | ificate.                |
| Identify: Manufacturer's ins                                |  | onic format, eg internet lie<br>ik Ullie Brother LED street iumin | (California Control Co |  |                         |
| Link:<br>The work has been o                                | lone in accordance   | with a certified des  | ign: Yes   | □ No   |                         |
|   |  |   | attach a copy of the certified   |  |                         |
|   |  | onic format, eg internet lie                                      |  |  |                         |
| Link  | natural Floodway Lighting Plan o   |   |  |  |                         |
|   |  | on of Conformity (SI  |  | ☐ No   |                         |
|   |  |   | ition. Also attach a copy of th  | e 50oC to this certificate.                        |                         |
| Or provide reference to r<br>identify: stoc amendo<br>Unk:  | eadily accessible electro  | onic format, eg Internet lir                                      | nk.)   |  |                         |
|   | en satisfactorily test   | ed in accordance with   | the Electricity (Safety) Re  | egulations 2010                                    | lo TYes                 |
| Description of Wor  | A RESIDENCE OF THE PARTY OF THE |   | Annual Inches  |  | rovide values)          |
| Install New Str   |  | h I ED Hood   |  | Polarity   | 1/2                     |
|   |  |   | ke, Cad Welded   | (Independent earth):                               | 200+ M at-              |
|   |  | n anu cartii ota  | no, cau vveided  | Insulation resistance:                             | 200+ M Ohms<br>0.1 Ohms |
| Connection -  |  | on by others  |  | Earth Continuity:<br>Bonding:                      | 0.1 Ohms                |
| Mains Cable, N  |  | on by otners.   |  | Fault Loop impedance                               | U. 1 Onms               |
| Livened by oth  | ers.   | 1   |  | Other (specify):                                   | Omits                   |
|   | 30.0 6 g \$20.0 kmg/mm2.0 cm   | A   | and a second second second   |  | of Complete             |
|   |  |   | tion in the certificate i  |  | or compliance           |
| rtifier's signature:  | 4/11   | )   | Date:  | 20/02/2021   |                         |
| applies is connected<br>Certifier's                         | iment I certify that   |   | Registra   | n, to which this Electric                          | al Safety Certificate   |
| name:   |  |   |  | number:  |                         |
| Certifier's   |  | Certificate   | Co   | onnection Date:                                    |                         |
| signature:  | TOMES COOK . THIS IS   | Issue Date:   |  | NED FOR A MINIMUM OF 7 YE                          | ADC                     |

| This form has been designed to be used by licensed directrical workers to certify that redistilications or Part to Martyn  Perez at a ASAPS 200 ear set to be connected to the seguidad youton of electrical apply.  Subdivision Area M - Stage 9 to 15 Greenhill Park Hamilton # // 7  Contact Details:  (Name and address)  Name of Electrical Well in Martyn Registration/Practising Registration/Practising Registration/Practising Registration/Practising Registration/Practising Registration number:  Phone & email:  Veti Martyn Registration/Practising Registration/Practising Registration/Practising Registration number:  Phone & email:  Veti Martyn Registration/Practising Registration/Practising Registration number:  Phone & email:  Veti Martyn Registration/Practising Registra |   |                      | CERTIFICATE OF COM                             |  | IICAL SAFETY CERT               | TFICATE                 |
|--|---|----------------------|--|--|---------------------------------|-------------------------|
| Subdivision Area M - Stage 9 to 15 Greenhill Park Hamilton # // Z  Contact Details:    Name of Electrical   Yeti Martyn  | Th  | is form has been     | designed to be used by licensed                | electrical workers to certify th   | at installations or Part instal | lations under Part 1 or |
| Name and address)  Name of Electrical Veti Martyn  Registration/Practising   E257490    Name of Electrical vorker:   Yeti Martyn  Name and registration number:   Yeti Martyn  New work   Yeti Martyn  No   Yet |   |                      |  | NG 1. 200 PROPERTY STATE OF  | NAVADE STATES                   | 1/7                     |
| Vestimartyng    Sicence number:   EZ37490  |   |                      |  |  |                                 |                         |
| The work relies on manufacturers instructions:    Addition   |   | Yeti M               | artyn  | THE RESERVE OF THE PROPERTY OF THE PARTY OF THE PARTY.   | E257490                         |                         |
| represon(s) supervised:  ertificate of Compilance yee of work:    Addition   | hone & email:   |                      | yetimartyn@hotmail.com                         |  |                                 |                         |
| Addition   Alteration   New work   New wor   |   |                      |  |  |                                 |                         |
| diditional Standards or electrical code of practice were required:  ate or range of dates that prescribed electrical work undertaken:  | ype of work:  |                      |  |  |                                 | à                       |
| contains fittings that are safe to connect to a power supply?  | dditional Standards   | or electrical        | code of practice were req                      | uired: 🔳 No 🗌 Yes  |                                 |                         |
| the installation has an earthing system that is correctly rated (where applicable)    Yes  | ontains fittings that   | are safe to c        | onnect to a power supply                       | -  | □ No                            |                         |
| Test Results (provide reference to readily accessible electronic format, eg internet link.)    All   Parts (specify)   P |   |                      |  | and the second s | E v. D                          | No.                     |
| To provide reference to readily accessible electronic format, eginternet link.]  Identify: Nandactaria matuchana attached. WCLU Book Little Birther LED street lank.]  Identify: Nandactaria matuchana attached. WCLU Book Little Birther LED street lank.]  No yes - identify the certified design including name, date and version. Also attach a copy of the certified design to this certificate. To provide reference to readily accessible electronic format, eginternet link.)  Identify: Carefied design attached. Readway Lighting Pan forwing. Little.  No yes - identify the SDIC including name, date and version OR EESS registration. Also attach a copy of the SDIC to this certificate. To provide reference to readily accessible electronic format, eginternet link.)  Identify: DDIC including name, date and version OR EESS registration. Also attach a copy of the SDIC to this certificate. To provide reference to readily accessible electronic format, eginternet link.)  Identify: DDIC including name, date and version OR EESS registration. Also attach a copy of the SDIC to this certificate. To provide reference to readily accessible electronic format, eginternet link.)  Identify: DDIC including name, date and version OR EESS registration. Also attach a copy of the SDIC to this certificate. The SDIC including name, date and version OR EESS registration. Also attach a copy of the SDIC to this certificate.  Install New Street Column with LED Head  Install New Street Column with LED Head  Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  In Stall Loop impedance Dohn One Solven (Spirit) of the SDIC to this certificate is correct.  In Stall Loop impedance Dohn One Solven (Spirit) of the SDIC to this certificate is correct.  In Stall Loop impedance Dohn One Solven (Spirit) of the SDIC to this certificate is correct.  In Stall Loop impedance Dohn One Solven (Spirit) of the SDIC to this certificate is correct.  In Stall Loop impedance Dohn One S | arts of the installati<br>All Parts (spi<br>he work relies on m                   | on to which (ecify)  | this certificate relates that<br>instructions: | t are safe to connect to  Yes  | a power supply?                 |                         |
| the work has been done in accordance with a certified design:    Yes   | Or provide reference to re<br>identify: Manufacturar's ma                         | eadily accessible    | electronic format, eg internet lin             | k.]  | rer's instructions to this cert | ificate.                |
| Link:  the work relies on a Supplier Declaration of Conformity (SDoC):  yes - identify the SDoC including name, date and version OR EESS registration. Also attach a copy of the SDoC to this certificate.  Description of work:  Install New Street Column with LED Head  Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  Install stocument I certify that the completed prescribed electrical work to which this Certificate of Compliance pplies has been done lawfully and safely, and the information in the certificate is correct.  Test Results (provide values)  Polarity (Independent earth):  Insulation resistance:  Other (specify):  Description of Work:  1   | yes – identify the certific   | nd design includi    | ng name, date and version. Also a              | attach a copy of the certified d   |                                 |                         |
| The work relies on a Supplier Declaration of Conformity (SDoC):  Yes No yes - identify the SDoC including name, date and version OR EESS registration. Also attach a copy of the SDoC to this certificate.  Deprovide reference to readily accessible electronic format, ag internat link.)  Identify: SDoC also advised Link:  The installation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010 No Yes  Description of Work:  Install New Street Column with LED Head  Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  Livened by others.  Test Results (provide values) (Insulation resistance 200+ M Other Santh Loop impedance Other Saut Loop impedance Other Saut Loop impedance Other Saut Loop impedance of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Triffier's signature:  Date:  Date:  Registration/Practising licence number:  Certificer's  Registration/Practising licence number:  Certificate  Certificate  Certificate  Connection Date:   |   | chesi Roadway Lighti | ng Plan shaving.                               |  |                                 |                         |
| yes - identify the SDoC including name, date and version OR EESS registration. Also ottach a copy of the SDoC to this certificate.  Do provide reference to readily accessible electronic format, og Internet link.)  Identify: SDoC standard  Link:  The Installation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010  No  Yes  Description of Work:  Install New Street Column with LED Head  Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  Livened by others.  As signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Pate:  Date:  Date:  Certificate  Certificate  Certificate  Certificate  Certificate  Connection Date:  Certificate  Certificate  Connection Date:  Certificate  Connection Date:  Certificate  Certificate  Connection Date:  Certificate  Certifica |   | Supplier Dec         | Jaration of Conformity (SI                     | ooch 🔳 Yes   | □ No                            |                         |
| Test Results (provide values)  Description of Work:  Install New Street Column with LED Head  Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  Description of Work:  Regulations 2010  No Yes  Test Results (provide values)  Polarity (Independent earth):  Insultion resistance: 200+ M Ohr Earth Continuity: 0, 1 Ohr Fault Loop impedance  Other (specify):  Dy signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance  populies has been done lawfully and safely, and the information in the certificate is correct.  refficer's signature:  Date:  Date:  Date:  Description of Work:  Test Results (provide values)  Polarity (Independent earth):  Insulation resistance: 200+ M Ohr Bonding: 0,1 Ohr Fault Loop impedance: Ohr Other (specify):  Date: 20/02/2021  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate publics is connected to a power supply and is safe to use.  Certificer's  Registration/Practising licence number:  Certificate  Certificate  Connection Date:   |   |                      |  |  |                                 |                         |
| Test Results (provide values)  Polarity (Install New Street Column with LED Head Install MEN Board, Main Earth and Earth Stake, Cad Welded Connection - Light Risk Mains Cable, Mains Installation by others.  Livened by others.  Test Results (provide values)  Polarity (Independent earth): Insulation resistance: 200+ M. Ohr Bonding: 0.1 Ohr Bonding: 0.1 Ohr Fault Loop impedance: Ohr Other (specify):  Test Results (provide values)  Polarity (Independent earth): Insulation resistance: 200+ M. Ohr Bonding: 0.1 Ohr Fault Loop impedance: Ohr Other (specify):  Test Results (provide values)  Polarity (Independent earth): Insulation resistance: 200+ M. Ohr Bonding: 0.1 Ohr Fault Loop impedance: Ohr Other (specify):  Test Results (provide values)  Polarity (Independent earth): Insulation resistance: 200+ M. Ohr Bonding: 0.1 Ohr Fault Loop impedance: Ohr Other (specify):  Test Results (provide values)  Polarity (Independent earth): Insulation resistance: 200+ M. Ohr Bonding: 0.1 Ohr Fault Loop impedance: Ohr Other (specify):  Test Results (provide values)  Polarity (Independent earth): Insulation resistance: 200+ M. Ohr Bonding: 0.1 Ohr Fault Loop impedance: Ohr Other (specify):  Test Results (provide values)  Insulation resistance: 200+ M. Ohr Bonding: 0.1 Ohr Fault Loop impedance: Ohr Other (specify):  Date: 20/02/2021  Electrical Safety, Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this documen | Or provide reference to n<br>Identify: SDoC stacked                               |                      |  |  | 7.000                           |                         |
| Install New Street Column with LED Head Install MEN Board, Main Earth and Earth Stake, Cad Welded Connection - Light Risk Mains Cable, Mains Installation by others.  Livened by others.   |   | en satisfactoril     | ly tested in accordance with                   | the Electricity (Safety) Reg   | ulations 2010                   | to Yes                  |
| Install New Street Column with LED Head Install MEN Board, Main Earth and Earth Stake, Cad Welded Connection - Light Risk Mains Cable, Mains Installation by others.  Livened by others.   |   |                      |  |  | Test Results (p                 | rovide values)          |
| Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  Livened by others.  Installation by others.  Livened by others.  Installation by others.  Livened by others.  Installation by others.  Installation resistance:  Bonding: 0.1 Ohr Bon | Install New Stre  | et Colum             | n with LED Head                                |  |                                 |                         |
| Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  Livened by others.  In the completed prescribed electrical work to which this Certificate of Compliance pplies has been done lawfully and safely, and the information in the certificate is correct.  In the completed prescribed electrical work to which this Certificate of Compliance pplies has been done lawfully and safely, and the information in the certificate is correct.  In the completed prescribed electrical work to which this Certificate of Compliance pplies has been done lawfully and safely, and the information in the certificate is correct.  In the complete prescribed electrical work to which this Certificate of Compliance pplies has been done lawfully and safely, and the information in the certificate is correct.  In the complete prescribed electrical work to which this Certificate of Compliance pplies has been done lawfully and safely, and the information in the certificate is correct.  In the complete prescribed electrical work to which this Certificate of Compliance pplies has been done lawfully and safely, and the information in the certificate is correct.  In the complete prescribed electrical work to which this Certificate of Compliance pplies is correct.  In the complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which this Certificate of Complete prescribed electrical work to which th | Install MEN Bo  | ard, Main            | Earth and Earth Stal                           | ke, Cad Welded   |                                 | 200+ M Ohms             |
| Livened by others.  Fault Loop impedance Other (specify):  The specify of the specify of the specify of the specificate of the  |   |                      |  |  | Earth Continuity:               | 0.1 Ohms                |
| by signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance pplies has been done lawfully and safely, and the information in the certificate is correct.    Date:   20/02/2021  | Mains Cable, N  | lains Insta          | llation by others.                             |  |                                 |                         |
| y signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance pplies has been done lawfully and safely, and the information in the certificate is correct.    Date:   20/02/2021   | Livened by other  | ers.                 |  |  | Fault Loop impedance            | Ohms                    |
| pplies has been done lawfully and safely, and the information in the certificate is correct.  Date: 20/02/2021  Electrical Safety Certificate By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate pplies is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:  Certifier's Certificate Connection Date:  | 50  |                      |  |  | Other (specify):                |                         |
| Certifier's signature:  Date: 20/02/2021  20/02/2021  Date: 20/02/ |   |                      |  |  |                                 | of Compliance           |
| Electrical Safety Certificate By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use.  Bertifier's Registration/Practising licence number:  Certificate Connection Date:   | pplies has been do  | ne lawfully ar       | of safely, and the informa                     | the same of the sa |                                 | a companyone            |
| Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate pipelies is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:  Certifier's Certificate Connection Date:   | rtifier's signature:  | 411                  | £  | Date: 2  | 0/02/2021                       |                         |
| Certifier's Certificate Connection Date:   | Electrical Safety,<br>By signing this docu<br>applies is connected<br>Certifier's | ment I certif        |  | part of the installation   | ion/Practising                  | al Safety Certificate   |
| 3.700/92/92  |   |                      |  |  | CONTRACTOR OF                   |                         |
| signature: Issue Date:   |   |                      | 3,732,333,473,33                               | Cor  | nection Date:                   |                         |

| <b>∧</b> E   | LECTRICAL  | CERTIFICATE OF CO   | MPLIANCE & E           | LECTRIC                  | AL SAFETY CERT  | TIFICATE              |       |
|--|--|---|------------------------|--------------------------|---|-----------------------|-------|
| Th   | is form has been   | designed to be used by license  |                        |                          |   | flations under Part 1 | 1 or  |
| ocation Details:   |  | on Area M - Stage   |                        |                          | STORES SERVICE - FAR  | 113                   |       |
| ontact Details:<br>Name and address)   |  |   |                        |                          |   |                       |       |
| ame of Electrical orker:   | Yeti Ma  | artyn   | Registration/P         |                          | E257490   |                       |       |
| none & email:  |  | yetimartyn@hotmail.com  |                        |                          |   |                       |       |
| ame and registratio<br>person(s) supervise   |  |   |                        |                          |   |                       |       |
| ertificate of Com<br>ype of work:<br>he prescribed electr  |  | Addition Low risk   | ☐ Altera<br>☐ Gener    | 22                       | New work High-risk (Specif  | w).                   | _     |
|  | or electrical  | Part 1 of AS/NZS  | quired: 🖪 No           | of AS/NZS                |   |                       |       |
| [4일 전기 전 시장 [2] [2] [2] [2] [2]  |  | ibed electrical work und<br>onnect to a power suppl   |                        | es [                     | ] No  |                       | _     |
| pecify type of suppl   | The second secon |   |                        |                          |   |                       |       |
| he installation has a  | in earthing sy   | stem that is correctly ra   | ited (where applica    | ble)                     | Yes 🔲   | No                    |       |
|  | 12000  | this certificate relates th   | at are safe to con     | nect to a                | power supply?   |                       |       |
| All Parts (spe   |  | Name Constant Constant  |                        |                          | 7. 202  |                       | _     |
| he work relies on m  |  |   | The second second      | es L                     | _ No  | 12.00                 |       |
| or provide reference to re<br>identify: Wandaduse's insi   | sadily accessible  | uding name, date and version. :<br>electronic format, eg Internet I<br>CLU Block Liste Broker LED skrot ken | link.)                 | nanutacture              | s instructions to tras cen  | (mene.                |       |
| Link:<br>he work has been d  | one in accord  | dance with a certified de   | sign: 🔳 Y              | es [                     | ] No  |                       |       |
|  |  | ng name, date and version. Also   |                        | ertified desi            | gn to this certificate.   |                       |       |
| Identify: Continuously atta  |  | electronic format, eg Internet l<br>ng Plandowing.  | link.)                 |                          | Had PART I'V APA A AMARAN   |                       |       |
| Link:<br>he work relies on a   | Supplier Dec   | laration of Conformity (S   | SDoC): III             | es [                     | ] No  |                       | -     |
|  |  | ate and version OR EESS registr   |                        |                          | a literatur de l'altine au acce.                                  |                       |       |
| Or provide reference to re<br>identify: SDoC started   |  | electronic format, eg Internet l  |                        |                          |   |                       |       |
| Link:<br>he installation has bee   | en satisfactoril   | y tested in accordance with   | h the Electricity (Saf | ety) Regula              | ations 2010   | No TYes               |       |
| Description of Work  |  | •   |                        |                          | AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER. | provide values)       |       |
| Install New Stre   | et Column  | with LED Head   |                        |                          | Polarity  |                       |       |
|  |  | Earth and Earth Sta   | ake. Cad Weld          | led                      | (Independent earth):<br>Insulation resistance:                    | 200+ M of             | hms   |
| Connection - L   |  |   | 10                     |                          | Earth Continuity:   |                       | hms   |
|  |  | llation by others.  |                        |                          | Bonding:  |                       | hms   |
| Livened by other   |  |   |                        |                          | Fault Loop impedance  | Ol                    | hms   |
| *5   |  |   |                        |                          | Other (specify):  |                       |       |
| y signing this docum   | nent I certify   | that the completed pres   | scribed electrical v   | work to w                | hich this Certificate   | of Compliance         |       |
|  |  | d safely, and the inform  |                        |                          |   |                       |       |
| et E colo at an atoma  | 11/11/2  | >   |                        | Date: 20/                | 02/2021   |                       |       |
| CERTIFIED & STREET, ST |  |   |                        | - 4441                   |   |                       |       |
|  | 200  | (   |                        |                          |   |                       |       |
| Electrical Safety  |  | s that the installation   | e nort of the least    | Hation *                 | which this Floresia   | al Safotu Cortifi     | icato |
| Electrical Safety  | ment I certify   | y that the installation, o  |                        | illation, to             | which this Electric   | al Safety Certifi     | icate |
| lectrical Safety<br>By signing this docu<br>applies is connected   | ment I certify   | y that the installation, o<br>supply and is safe to use.  | 1<br>440               |                          | which this Electric   | al Safety Certifi     | icate |
| Electrical Safety  By signing this docu  applies is connected  Certifier's   | ment I certify   |   | R                      |                          | /Practising   | al Safety Certifi     | icate |
|  | ment I certify   |   | R                      | egistration<br>cence num | /Practising   | al Safety Certifi     | icate |

|  | EFERENCE/CERTIFICATE ID  | No.: NWELCO  | C1579/2  | TRICAL SAFETY CERT                |                       |
|--|--|--|--|-----------------------------------|-----------------------|
| Location Details:  | Subdivision Are  | a M - Stage 9  | 9 to 15 Greenhill F  | Park Hamilton #                   | 119                   |
| Contact Details:<br>(Name and address)   |  |  |  |                                   |                       |
| Name of Electrical worker:   | Yeti Martyn  |  | Registration/Practis<br>licence number:  | E257490                           |                       |
| Phone & email:   | (3)  | @hotmsil.com   |  |                                   |                       |
| Name and registration<br>of person(s) supervis   | 32 442 1   |  |  |                                   |                       |
| Certificate of Con<br>Type of work:<br>The prescribed electr   |  | Addition<br>ow risk  | Alteration General   | New work High-risk (Specifi       | vi:                   |
| Means of compliance  | Total Control of the  | art 1 of AS/NZS  | Total Control of the  | OF EACH DAVID AND                 |                       |
|  | or electrical code of p<br>es that prescribed elec   |  | Annual Control of the State of  | es (specify):                     |                       |
|  | t are safe to connect to   |  | The same of the sa | □ No                              |                       |
| Specify type of supp   | ly system: 230V Mains N  | iEN  |  |                                   |                       |
| The installation has   | an earthing system tha   | nt is correctly rat  | ted (where applicable)   | Yes                               | No                    |
| Parts of the installat   | ion to which this certif   | icate relates tha  | t are safe to connect to   | o a power supply?                 |                       |
| All Parts (sp  | ecify)   |  |  |                                   |                       |
|  | nanufacturers instructi  |  | ■ Yes  | ☐ No                              |                       |
| If yes – identify the instru   | ction manual including name  | , date and version. A  | iso attach a copy of manufac   | turer's instructions to this cert | ificate.              |
|  | readily accessible electronic f  | and the first based on the party of the part | A STATE OF THE PARTY OF THE PAR |                                   |                       |
| The state of the s | tructure attached VIGLU Slock Little   | e Brother LED about Lawn   | wee, 20105/Q1019   |                                   |                       |
| The work has been a  | tone in accordance wit   | h a cartified des  | ign: Yes   | □ No                              |                       |
|  |  |  | attach a copy of the certified   |                                   |                       |
|  | eadily accessible electronic f   |  |  |                                   |                       |
|  | octod Readway Lighting Plan drawn  |  |  |                                   |                       |
|  | Supplier Declaration of  | of Conformity (SI  | DoC): Yes  | ☐ No                              |                       |
|  |  |  | ition. Also attach a copy of th  | he SDoC to this certificate.      |                       |
| (Or provide reference to r   | eadily accessible electronic f   | ormat, eg Internet lir   | nk.)   |                                   |                       |
| Identify: 80oC attached  |  |  |  |                                   |                       |
| Link:  | on entiring to the last and in   | a accordance with  | the Electricity (Safety) Re  | egulations 2010                   | io TYes               |
| Description of Worl  | A property of the second secon | accordance with  | the Electricity (Safety) in  |                                   | provide values)       |
|  |  | ED II  |  | Polarity                          | Toride values/        |
|  | eet Column with L  |  |  | (Independent earth):              |                       |
|  | ard, Main Earth a  | nd Earth Sta   | ke, Cad Welded   | Insulation resistance:            | 200+ M Ohms           |
| Connection -   |  |  |  | Earth Continuity:                 | 0.1 Ohms              |
| A CONTRACTOR OF STREET AND ADDRESS OF THE PARTY OF THE PA | fains Installation I   | by others.   |  | Bonding:                          | 0.1 Ohms              |
| Livened by oth   | ers.   |  |  | Fault Loop impedance              | Ohms                  |
| -  |  |  |  | Other (specify):                  |                       |
| By signing this docu   | ment I certify that the  | completed preso  | cribed electrical work t   | to which this Certificate         | of Compliance         |
| applies has been do  | ne lawfully and safely,  | and the informa  | ation in the certificate   | is correct.                       | S 20000               |
| ertifier's signature:  | 4/1/2  |  | Date:  | 20/02/2021                        |                       |
| - 4  | 100  |  | Date.  |                                   |                       |
|  | ment I certify that the  |  | part of the installatio  | n, to which this Electric         | al Safety Certificate |
|  | d to a power supply an   | d is safe to use.  | -<br>  | 500 SECURIO 1                     |                       |
| Certifier's  |  |  |  | ation/Practising<br>number:       |                       |
| name:  |  | e com  | -  |                                   |                       |
| Certifier's<br>signature:  |  | Certificate<br>Issue Date:   | 0  | onnection Date:                   |                       |
|  | TOMER COPY - THIS IS AN I  |  | ENT AND SHOULD BE RETAIL   | NED FOR A MINIMUM OF 7 YE         | ARS                   |

|  | EFERENCE/CERTIFIC                       | ATE ID No.: NWELCOO<br>signed to be used by licensed<br>are safe to be connected to t        | C1579 / 3<br>electrical workers to certify t  | hat installations or Part instal<br>ical supply. | lations under Part 1 or |
|--|---|--|---|--|-------------------------|
| Location Details:  | Subdivision                             | Area M - Stage 9   | to 15 Greenhill P                             | ark Hamilton #                                   | 121                     |
| Contact Details:<br>(Name and address)   |   |  |   |  |                         |
| Name of Electrical worker:   | Yeti Mar                                | tyn  | Registration/Practisi                         | E257490  |                         |
| Phone & email:   | ye                                      | timartyn@hotmail.com   |   |  |                         |
| Name and registration of person(s) supervise   |   |  |   |  |                         |
| Certificate of Com<br>Type of work:<br>The prescribed electr   |   | Addition<br>Low risk   | Alteration General                            | New work High-risk (specifi                      | vi:                     |
| Date or range of date  | or electrical con<br>es that prescribe  | Part 1 of AS/NZS 3 de of practice were required electrical work under nect to a power supply | uired: No Ye<br>taken: अवस्थारा               | NZS 3000<br>s (specify):                         |                         |
| Specify type of suppl  | ly system: 230V                         | Mains MEN  |   |  |                         |
| The installation has a   | an earthing syst                        | em that is correctly rate  | ed (where applicable)                         | ■ Yes □  | No                      |
|  | 100000000000000000000000000000000000000 | s certificate relates that   | are safe to connect to                        | a power supply?                                  |                         |
| All Parts (specific  | 374.5554g Add                           |  | ping  | _  |                         |
| The work relies on m   |   |  | ■ Yes   | ☐ No   | rd                      |
|  |   | ig name, date and version. Ab<br>stronic format, og Internet lin                             |   | urer's instructions to this cert                 | oficate.                |
| Identify: Manufacturers inst   |   | Stork Little Brother LED street Lawre  | A ASSESSMENT PROPERTY.                        |  |                         |
| Link:  | lone in accordan                        | ice with a certified desi  | en: 🔳 Yes                                     | □ No   |                         |
|  |   | ame, date and version. Also a  |   |  |                         |
|  |   | ctronic format, eg Internet lin  | : 10 - 10 10 10 10 10 10 10 10 10 10 10 10 10 |  |                         |
| Identify: Comes mayor atto   | school Prondway Lighting Pr             | tue drawing  |   |  |                         |
| Link:  | Sumultae Daelae                         | ation of Conformity ICD  | oct 🗐 Var                                     | □ No   |                         |
|  |   | ation of Conformity (SD<br>and version OR EESS registrat                                     |   |  |                         |
|  |   | ctronic format, eg Internet lin  |   | SLOC VO UNA COVINCACE.                           |                         |
| Identify: 80xC another   |   |  | VI.   |  |                         |
| Link   | 100-00                                  |  |   |  |                         |
| AND PERSONAL PROPERTY AND ADDRESS OF THE PARTY |   | ested in accordance with t   | the Electricity (Safety) Re                   |  |                         |
| Description of Worl  |   |  |   | Polarity Polarity                                | rovide values)          |
| Install New Stre   |   |  | Or Theorem                                    | (Independent earth):                             |                         |
|  |   | rth and Earth Stak   | ke, Cad Welded                                | Insulation resistance:                           | 200+ M Ohms             |
| Connection - I   |   |  |   | Earth Continuity:                                | 0.1 Ohms                |
| Mains Cable, M   |   | tion by others.  |   | Bonding:   | 0.1 Ohms                |
| Livened by other   | ers.                                    |  |   | Fault Loop impedance                             | Ohms                    |
| 939  |   | /  |   | Other (specify):                                 |                         |
| By signing this docur  | ment I certify the                      | the completed presc  | ribed electrical work to                      | which this Certificate                           | of Compliance           |
| applies has been do  | ne lawfully and                         | safely, and the informa  | tion in the certificate is                    | correct.   |                         |
| ertifier's signature:  | 1111                                    | 8  | Date:   | 20/02/2021                                       |                         |
| Electrical Safety<br>By signing this docu  | ment I certify the                      | nat the installation, or<br>ply and is safe to use.  | part of the installation                      | , to which this Electric                         | al Safety Certificate   |
| name:  |   |  | licence r                                     | iumber:  |                         |
| Certifier's signature:   |   | Certificate<br>Issue Date:   | Co  | nnection Date:                                   |                         |
|  | TOMER COPY - THIS                       | IS AN IMPORTANT DOCUME   | NT AND SHOULD BE RETAIN                       | ED FOR A MINIMUM OF 7 YE                         | ARS                     |

| Location Details:  Contact Details: (Name of Electrical work is:  Name of Electrical work is:  Phone & email:  Veti Martyn  Registration/Practising E257490  Registration/Practising Registration/Practis | RE TH  | FERENCE/CERTIFICAT   | re ID No.: NWELCO                                 | C1579/4+<br>d electrical workers to co           | ertify that installations or Part inst   |  |
|--|--|--|---|--|--|--|
| Name of Electrical worker:    Veti Martyn  |  | ESTERNA STATE  |   |  |  | #122   |
| Phone & email:    petimarlyn@homek.com   |  |  |   |  |  |  |
| Name and registration number of person(s) supervised:  Certificate of Compliance Type of work:   |  | Yeti Mart  | yn  | \$100 Perfection of the Co. 2 (1999)             | - /5 //LUIT  |  |
| Of person(s) supervised:  Certificate of Compliance Type of work: The prescribed electrical work is:    Low risk   | Phone & email:   | yetin  | nartyn@hotmail.com                                | 114  | 11,5   |  |
| Type of work:  The prescribed electrical work is:    Dart 1 of AS/NZS 3000   Part 2 of AS/NZS 3000   Part 3 of AS/NZS 3000   P |  | -C-C-C   |   |  |  |  |
| Additional Standards or electrical code of practice were required:    Date or range of dates that prescribed electrical work undertaken:   | Type of work:  |  |   | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2          |  | fy):   |
| The installation has an earthing system that is correctly rated (where applicable)   Parts of the installation to which this certificate relates that are safe to connect to a power supply?  All  | Additional Standards<br>Date or range of date  | or electrical code<br>s that prescribed  | of practice were req<br>electrical work unde      | uired: No [<br>rtaken: 2000/2001                 | Yes (specify):   |  |
| Parts of the installation to which this certificate relates that are safe to connect to a power supply?    All   Parts (specify)   | Specify type of suppl  | y system: 230V Ma  | ins MEN   |  | 878  |  |
| The work relies on manufacturers instructions:    Yes  | The installation has a   | n earthing systen  | n that is correctly rat                           | ed (where applicable                             | e) 🔳 Yes 🗌   | No   |
| The work relies on manufacturers instructions:    Yes  |  | 432477   | ertificate relates tha                            | t are safe to conne                              | ect to a power supply?   |  |
| Identify: Manufacturer's instructions attached. Violus Stork Little Brother LED about keranales, 2005/2019/2 Units:  The work has been done in accordance with a certified design:   |  |  | ructions:   | ■ Ye   | s No   |  |
| Identify: Manufactures instructions violations Violation (Violation) in the work has been done in accordance with a certified design:    Yes   | If yes - identify the instruc  | gribulant lauram not   | name, date and version. Al                        | lso attach a copy of mar                         | nufacturer's instructions to this ce   | rtificate.   |
| The work has been done in accordance with a certified design:  If yes – identify the certified design including name, date and version. Also attach a copy of the certified design to this certificate.  (Or provide reference to readily accessible electronic format, eg internet link.)  It in the or readily accessible electronic format, eg internet link.)  It wes – identify the SDoC including name, date and version OR EESS registration. Also attach a copy of the SDoC to this certificate.  (Or provide reference to readily accessible electronic format, eg Internet link.)  It was – identify: SDoC attached links.  It is assultation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010 No Persidentify: SDoC attached links.  The installation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010 No Persidentify: SDoC attached links.  Install New Street Column with LED Head Install MEN Board, Main Earth and Earth Stake, Cad Welded Connection – Light Risk Earth Continuity: 0.1 Carrier (Install MEN Board, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Pate: 20/02/2021  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate is correct.  Pate: 20/02/2021  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate is connected to a power supply and is safe to use.  Certifier's general results and complete the certifier of the installation, to which this Electrical Safety Certificate is connected to a power supply and is safe to use.  | Identify: Manufacturer's instr   | and the first of the second se |   | corporate de |  | 7 (1 1 1 0 V CO).  |
| If yes – identify the certified design including name, date and version. Also attach a copy of the certified design to this certificate.  (or provide reference to readily accessible electronic format, eg Internet Rink.)  Identify: Certified issign attached Readway Lugena Plan diversion  If yes – identify the SDoC including name, date and version OR EESS registration. Also attach a copy of the SDoC to this certificate.  (or provide reference to readily accessible electronic format, eg Internet Rink.)  Identify: SDoC attached  Unk:  The installation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2019 No Pes  Description of Work:  Install New Street Column with LED Head  Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safety, and the information in the certificate is correct.  Certifier's signature:  Date:    Date:   20/02/2021   | No.  | one in accordance  | with a certified des                              | ion 🗐 Ve   | s □ No   |  |
| The work relies on a Supplier Declaration of Conformity (SDoC):  If yes identify the SDoC including name, date and version OR EESS registration. Also attach a copy of the SDoC to this certificate.  (Or provide reference to readily accessible electronic format, eg Internet link.)  Identify: SDoC attached  Link:  The Installation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010  No  Yes  Description of Work:  Install New Street Column with LED Head  Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate and Electrical Safety Certificate in Electrical Safety Certificate in Electrical Safety Certificate in Electrical Safety Certificate in Electrical Safety Certificate in Electrical Safety Certificate in Electrical Safety Certificate in Electrical Safety Certificate in Electrical Safety Certificate in Electrical Safety Certificate in Electrical Safety Certificate i | If yes – identify the certifie   | d design including nan   | ne, date and version. Also                        | attach a copy of the cen                         |  |  |
| The work relies on a Supplier Declaration of Conformity (SDoC):  If yes - identify the SDoC including name, date and version OR EESS registration. Also attach a copy of the SDoC to this certificate.  (Or provide reference to readily accessible electronic format, eg Internet link.)  Identify: Stock attached Unit:  The installation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010 No Pyes  Description of Work:  Install New Street Column with LED Head Install MEN Board, Main Earth and Earth Stake, Cad Welded Connection - Light Risk Mains Cable, Mains Installation by others.  Livened by others.  Earth Continuity:  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certifier's signature:  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certifier's signature:  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certifier's name:  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certifier's name:   | 21025 3500   | and Rossway Lighting Plan  | ажія  |  |  |  |
| If yes-identify the SDoC including name, date and version OR EESS registration. Also attach a copy of the SDoC to this certificate.  (Or provide reference to readily accessible electronic format, eg Internet link.)  Identify: SDoC attached Unk:  The Installation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010  No  Polarity Install New Street Column with LED Head Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk Mains Cable, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Polarity Independent earth):  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Polarity Independent earth):  Bonding  Other (specify):  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Polarity Independent earth):  Bonding  Other (specify):  Date:  20/02/2021  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate is connected to a power supply and is safe to use.  Certifier's  Registration/Practising Incence number:  | A STATE OF THE STA | Supplier Declarati   | lan of Conformity (CI                             | noch 🗐 Vo  | . D No   |  |
| Identify: SDOC attaches   Liver   Li   |  |  |   |  | Tiller of the State of the Stat |  |
| The installation has been satisfactorily tested in accordance with the Electricity (Safety) Regulations 2010 No Yes  Description of Work:  Install New Street Column with LED Head Install MEN Board, Main Earth and Earth Stake, Cad Welded Connection - Light Risk Mains Cable, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Certifier's signature:  Date:  Date:  Date:  Description of Work:  Test Results (provide values)  Polarity Insulation resistance: 200+ M of Earth Continuity: 0.1 of Bonding: 0.1 of Fault Loop impedance of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Date:  Date:  Date:  Date:  Date:  Date:  Date:  Registration/Practising licence number:   | (Or provide reference to re<br>identify: SDoC attached   |  | (1) (1) - (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) |  | or the Jose to this britisher.   |  |
| Description of Work:  Install New Street Column with LED Head Install MEN Board, Main Earth and Earth Stake, Cad Welded Connection - Light Risk Mains Cable, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate is correct.  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate is connected to a power supply and is safe to use.  Certifier's  Registration/Practising licence number:  | 1000   |  |   |  | In 14 mm -   | w. Tabe  |
| Install New Street Column with LED Head Install MEN Board, Main Earth and Earth Stake, Cad Welded Connection - Light Risk Mains Cable, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:   |  |  | ed in accordance with                             | the Electricity (Safet                           | PRODUCTION OF THE PROPERTY OF  | white the same of  |
| Install MEN Board, Main Earth and Earth Stake, Cad Welded  Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use.  Certifier's name:  Registration/Practising licence number:   |  |  |   |  |  | provide values;  |
| Connection - Light Risk  Mains Cable, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:   |  |  |   |  |  |  |
| Mains Cable, Mains Installation by others.  Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Pate: 20/02/2021  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:  |  |  | n and Earth Stai                                  | ke, Cad Welde                                    |  | 200+ M Ohms  |
| Livened by others.  By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:  |  | The second second  | and the contract access                           |  |  |  |
| By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:  |  |  | on by others.                                     |  | The second state of the se | The state of the s |
| By signing this document I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and safely, and the information in the certificate is correct.  ertifier's signature:  Date:  20/02/2021  Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certifier's applies is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:  | Livened by other   | ers.   |   |  |  | Ohms   |
| applies has been done lawfully and safely, and the information in the certificate is correct.  Partifier's signature:    Date:   20/02/2021  | VV   |  | 4   |  |  | Name of the second   |
| Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certifier's applies is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:  |  |  |   |  |  | of Compliance  |
| Electrical Safety Certificate  By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certification applies is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:  | F  | 1014   | >   |  | 20/02/2021   |  |
| By signing this document I certify that the installation, or part of the installation, to which this Electrical Safety Certification applies is connected to a power supply and is safe to use.  Certifier's Registration/Practising licence number:   |  | 771  |   |  | ett.   |  |
|  | By signing this documented Certifier's   | ment I certify tha   |   | Reg  | stration/Practising  | cal Safety Certificate   |
| Certificate Connection Date:   |  |  | 7   | lice   |  |  |
| signature: Issue Date:   | Certifier's  |  | Certificate                                       |  | Connection Date:   |  |

| ELECTRICAL CERTIFICATE OF COMPLIANCE & ELECTRIC  | AL SAFETY CERTIFICATE   |
|--|---|
| Harvernery/Continuents ID No.: NWELCOC 1583 554. The familiar handle point otherward proceeded containwards as a marketing   |   |
| Port 2 C AS/DPS 3000 mon. lot. in receiving to the specified violental destination   | 24X82   |
| Subdivision Area M Stage 9 to 15 Greenhill Park  | (Hamilton #少多   |
| Poncact Octalis:   | <u> </u>  |
| Name of Electrical Yeti Martyn Registration/Practising Name of Electrical Yeti Martyn  | E257490   |
| Phone & email:   |   |
| Name and registration number of person(s) suppressed:  |   |
| Contificate of Compilance  Type of work: Addition   Alternation  The prescribed elegtrical work in   Alternation  The prescribed elegtrical work in   Alternation  | New work  Platrisk/foct/yl  |
| Means of compliance: ; ; Fan 1 of A5/N2S 30:iii Part 2 of A5/N2S additional Standards or electrical code of practice were required: : No   Yes (s) Uate or range of dates that prescribed electrical work undertaken:  |   |
| Contains fiftings that are safe to connect to a power supply?  |   |
| Specify type of supply system-7999 Mean MFH  | · · · · · · · · · · · · · · · · · · ·   |
| The Installation has an earthing system that is correctly rated (where applicable)   |   |
| Parts of the installation to which this contilicate relates that are safe to connect to a p  | ower supply?  |
| ■ All Farts (specify) The work relies on manufacturers instructions:   |   |
| The work relies on manufacturers instructions:  See dealify the calculated demonstrations name, take no version like extend coay of constraints.   | J Na  |
| The provide reference to could be access the electronic frame. Inglanding Eq. (  | र एक्टरक्टर वन: १८ विक स्थ्य । १.४१०  |
| <ul> <li>Boundy, the Consense According to the control of the Bound Effect of Annal Section (1999)</li> <li>Lok</li> </ul>   |   |
| The Work has been done in accordance with a certified design:  |   |
| If yes - identify the continuit design including more, date and version. An integral a read of the sentitled besign  | hts Wisserfault.  |
| (Grando rele even la modify statismo e electron o fermali, a gintimage and )  detaily to the discussion — Brando, a programme a  |   |
| The Work relies on a Supplier Declaration of Conformity (SDoC):  | No  |
| there into the Cost of Color of English to the End was on Court as repotation. Also allock a copy of the 22th 10th medical France in the day to record our estimation of sevent, and the   | Cita des reclateste   |
| Identify to Civitis  |   |
| Yho badallahan kan kan andalan ili an |   |
| The Installation has been satisfactorily tested in accordance with the Flectricity (Safety) Regulation of Work:  |   |
| 1 · E  | Test Results (provide values)   |
| Install New Street Column with LED Head<br>Install MEN Board, Main Earth and Earth Stake, Cad Welded   | limite partient god by  |
| Connection - Light Risk  | College and the second |
| Mains Cabre, Mains installation by others  | Barding O' Ohms   |
| in the second because in the second s | auticon inpeterce Olons  Olons  |
|  | (illing (comp)  |
| By Signiful this document I contify that the completed prescribed electrical work to what puries has been done lawfully and Sulely, and the Information in the certificate is con-   | ich this Certificate of Compliance<br>rect.   |
| Certifier's signatures 37.35 Date: C9/0  |   |
| Electrical Safety Certificate  |   |
| By signing this document I certify that the installation, or part of the installation, in  | which this Electrical Safety Certificate  |
| applies is requested to 8 pawer supply and is safe to use.  Certifier's ! Programmed!  | S and d   |
| name Registration/   |   |

Cert frugge

Issue Cater

CLARGO TO SECURITY OF THE CONTROL OF

"| Crimectons State:

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| ELECTRICAL   | CERTIFICATE OF CON   | ириалсе & Елесті                                  | RICAL SAFETY CERTIFICATE   |
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| Burntike/Cran  | T  |   |  |
|  | гкаттықу т   |   | of children, ja Not intel-inac, and w Myr 1 or                   |
| Port 2 of 05/2/25 30                                       | rephatromere et et ette om om Offi                         | ine spesiged systems (Cores, Ar.                  | sal e Malata (f. 14 Not Imbeldina), males Rigi I gi<br>na casada |
| Location Details: Subcherso                                | on Area Mil Stage C  | to 15 (Proposition C                              | ark Hamilton # /20   |
|  | —  |   | ark Hammiton, # 7.20   |
| Contact Details:   |  |   |  |
| Morper-seconddicess  |  | <u></u>   |  |
| Name of Elegatical   | · · · · · · · · · · · · · · · · · · ·                      | <u> </u>  |  |
| i worken Yest Ma   | artyn  | Registration/Practisin                            | " E257490  |
|  | ···. <u></u> :   | , licence number.                                 |  |
| Phone & ema-I.   | Actual Anglinging , Gen                                    |   |  |
| Name and registration number                               |  |   | ·  |
| of person(s) supervised:                                   | <u></u>  |   | i  |
| Certificate of Compliance                                  |  |   |  |
| Type of work:  | A:Idition  | Alteration  | New work   |
| Tiles prescribed electrical work in;                       | —□ Low <sub>id</sub> ati ,                                 | $\square$ \$crtera-                               | . Dubble) Skipse ( <u>sl</u>                                     |
| Means of compliance:                                       |  | on File   |  |
| Additional Standards on electrical c                       | nar: 1 (a 7/5) H25 3.<br>Orán di practice vice a reco      | 000) Tarr 2 of AS/N                               | /S 3000  |
| Dalle or range of dates that proscrib                      | ood of planting spendingler<br>ood electrical work on vier | taken: i da i i                                   | (sinch)  |
| Contains littings that are safe to on                      | naect to a nawer sneeds                                    | Yes   | D No   |
| Specify type of supply system; 2004                        |  | '단 '등   |  |
| The installation has an earthing sys                       |  | d Cahara amarabilar                               | F Yes □ No   |
| Parts of the rustallation to which th                      | is cartificate relates that                                | a (ernere appronuis)<br>200 tales to compose en c | Le Yes ∐ No  |
| Al  Parts (specify)  |  | ole züre en erinnen ich                           | Hower subbigs  |
| The work relies on manufacturors in                        | nstructions:   | <br>■ Yes   | ·  |
| $15$ V25 $\pm$ devictly the finth $r_1$ do marginal method | legiozoe, date ine vergon Ale                              | Cathon a sensoral monodare e                      | L_I No   |
| to move on the distance to additional of the dealership.   | eticonofernal, eg interser i pt                            | 1   | er er annage to Cracera vine                                     |
| locatile 14 - 4 notice mean rear give 10 p.,<br>1 pk       | C Skill ( New Witter) SD ( dominion )                      | - Sun (199  |  |
| The work has been done in argorda                          |  | <del>-</del>                                      |  |
| there is kindled the contribution group (why               | avec when a continue as a say                              | n: <u> </u>                                       | ∐ No   |
| incontinues intractores in totalish and falling of         | CCITAGO (sisinat, ng lictencellek                          | )   | SE TO MISCOCK CANG.  |
| tik utily and a fire a prometer B. Graph Query             | Participal Control   |   | ·  |
| The work relies on a Supplier Declar                       |  |   | <u></u>  |
| Figure at a strong of the SBoC of Lating rapid, the        | ranson or Contormity (SDA                                  | ich: 🔳 Yes  | ∐ N⊂   |
| new linearity calendary to tayout secondary (1)            | COUNTY COUNTY OF TAXABLE BUS                               | ne se idialesen ver 6 Ann (1657)                  | Dec 16 th s red finale   |
| through some and we  |  |   | ·· · · · · · · · · · · · · · · · · · ·                           |
| ullC   |  |   |  |
| The Installation has been sutisfectedly to                 | ested in accordance with in                                | e Flectority (Safety) Rogo                        |  |
| Onstription of Work:                                       |  |   | Pest Results (provide values)                                    |
| Install New Street Column                                  | with LEO Flead   | :   | Palarcy<br> Biographic carety                                    |
| Install MEN Board, Main Ea                                 | arth and Earth Stake                                       | s, Cad Wolded 🔝                                   | histophresinares, 2004 M Ohnis                                   |
| Connection - Light Risk                                    |  |   | (ed) Certainny C.1 Ohms  |
| Mains Cable, Mains Installa                                | ition by others.   | į   | Desire 3.1 Ohris   |
| Livened by others.   |  |   | fault icess impulsates Ohiras                                    |
| I  |  | ·   |  |
| By signing this document ( cortify the                     | at the completed prescrit                                  | led electrical work to w                          | which this Certificate of Compliance                             |
| applies has been done lawfully grid.                       | safoly, and the suformatic                                 | on in the cortificato is co                       | ûreedt.  |
| Cort Ren's signature to 1                                  |  | Date: 109.  | K2/Q021  |
| Electrical Safety Certificate                              |  |   |  |
| By signing this document I continue                        | nat the installation accor                                 | nd of the investment .                            | a writch This Electrical Safnty Correlicate                      |
| applies is connected to a power sup                        | ply and is safe to use                                     | a . Er ene motalfation, f                         | a which this bigotrical Safrity Contileate                       |
| Certifu(a's  |  | fireignation                                      | r/Practising   |
| rame:  | <u></u> <u></u>  | licence que                                       |  |
| Certifier's  | Certilisate  | - ) Connr   | ection Darge   |
| Signature:   | j Issue Date:  |   | <u></u> '  |
| COSTONE CELITY - 11/15                                     | ave meneral 20000171                                       |   | POUCA MINIMUM UI 7 YEARS   |
|  |  | of the transfer of                                | Contraction of the Vicential                                     |

signature.

ELECTRICAL CERTIFICATE OF COMPLIANCE & ELECTRICAL SAFETY CERTIFICATE OF ITERSHIP (CENTIFICATE ID No. 19/WELCOUTSBUTC) Discharable selection and help and Lycine sea emitted warter are not by the state obtained for section case upon For Lor Part 7 of AS/NRS B200 (1997) A to the compacted to the specifical grants into temporal by April Subdivision Area M - Staga 9 to 45 Greenhill Park Hamilton 🍺 / 🕖 🚫 Contact Details: [Naise and address] Name of Electrical Registration/Practising Yeti Martyni worker: Nicence number: Phone & email: หลายสามุเหลือระกรม การก Name and registration number of person(s) supervised: Certificate of Compliance Yypo of work ...⊟...Addition ...⊟...owirjsk 🔲 Ateration The presential electrical work is: Hiphyrise parany ....<u>□...</u>@enerali Means of compliance. i Part 1 of AS/N/5 4000 🚊 Part 2 of AS/N/8 andn Additional Standards or electrical rode of practice were required: ## No | Yes (specify). |
Bate or range of dates that prescribed electrical work undertaken: ## 3 54 Contains fittings that are safe to connect to a power supply? Specify type of supply system; 2307 March MEN The Installation has an earthing system that is correctly sated (where approphle) Parts of the installation to which this certificate relates that are safe to connect to a power supply? 🗐 AT 🖺 Parts (spectify) the work rolles on manufacturers instructions: Yes Mo. there is employ the most school measured in Author come, the graditions on Authorition in a rings of manufacturers estimated as the correlation If it provide tolernoss to readily assessable electronic immediacy inspectional. third by Versian of the resolution of virginities and between the continuous exceptions. Line The work has been done in accordance with a certified design: mives independ the until outlings including order, date and woman, also appet to copy of the certified design to this perting the (Or provide reference or reality of resisting decisions formal, representation). Rentily of the coast or certificating congruence and The work relies on a Supplier Declaration of Conformity (SDoC): ll new recently the Scholan Leong tions, date and version for this representation follows task a scoop of the Scholars this complete specificate (C) provide reference receivedly accessful mechanic formal, applicamentary is dentify ross (Case) The Instartation has know satisfactionly tested in accordance with the Electricity (Safety) Regulations 2010 ∏No ■Yes Description of World; Test Results (provide values) Pip priling Install New Street Column with LED Head. [integandary earth] Install MEN Board, Main Earth and Earth Stake, Cad Welded dodelka postuka 2001 M Olims Connection - Light Risk ven Jephnick Dluns Mains Cable, Mains Instaltation by others. Livened by others: Close type of a By signing this decument I certify that the completed prescribed electrical work to which this Certificate of Compliance applies has been done lawfully and sufely, and the information in the certificate is correct Date: 00/03/2021 Certifier's signature: Clockrical Safety Certificate By signing this document i certify that the installation, or part of the installation, to which this Electrical Safety Certificate applies is connected to a power supply and is safe to use. Cortifier's Registration/Practions กลแรย: Sterion numbros Connection Date: Contilior's

Secret Date:

COSTONIA RETURN A TO A OSMINIMA DE COLOMA DE IMANTE IMANTE INCORDE SA MINIMANO DE A VICANO.

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# Record of Inspection (ROS) of High-Risk Prescribed Electrical Work

(Partition, to the Sire-rinity (Society) (logiciations 2010)

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| <i>[</i> -\(\chi\)   | Reference/Record  | Numbert   |  |   |
|--|---|---|--|---|
| $\sim$   | Nationwired greent  | · Illin   |  |   |
| Essuer (Inspector)   | detalls:  |   |  |   |
| Name of Inspector:   | Gavin Bodey   |   | Registration #:                                | 1250728   |
| Bonall Address:  | gavir@bodeyspark (  | o nz  | Telephone                                      | 021 426 820   |
| Excelion of Instal   | lation:   |   |  |   |
| Location details   | Greenhill park supdi  | rsion, Area M, Street ight 13   | 3. stage 9-15                                  |   |
| Location Type:   | Comestic  | Ner Damestic Accommodat   | ۰ <u>ا</u>                                     | dustrial Commercial   |
| Contabilities Shoots   | ed Monte and Constitution   | Heathware   |  | 4 sceileneous (other)   |
|  |   | e of Compliance (CoC) details.  |  |   |
| Name of Electrical<br>worker(s)  | Yeti Martyn   |   | Registration <b>6</b> :                        | L257490   |
|  |   |   |  | FW121000  |
| CoC details:   | Nationwind 19931  |   |  | CoC(s) attached   |
|  | cal Work and CoC deta   |   |  |   |
| Specify the regulation AS NZS3CD3 part 2  What are the result Earthing and contain solution antly V.E.C. mp < 5 Ohn V.E.N. into. | s of the inspection:  | dard(s), or clentify sheker(filed do  | Kigin, foilowed when                           | .ari ying out the inspection:   |
|  |   |   |  |   |
| High voltage listal  | 00 Part 2 – 64(2)(a)(1)<br>  alion – 64(2)(a)  1)<br> radiso – 64(7)(a)(li) | Photoecilian system - 64(2)/4<br>   |  | ☐ Fectival modest and = AN(2)(a)(z)<br>☑ Mains word - (b4/2)(b)       |
| Declaration  |   |   |  |   |
| Thereby confirm that vistallations on which  | t the work devinted also<br>hathe work has been don                         | we has been done in / <u>co-sec</u> ato<br>ens, and twit be / <u>contri</u> e, when e | ordance with the reg<br>olivened, resctrically | plations, and the $rac{a_{n+1}(p_n \alpha)}{\sin \alpha} p_n \alpha$ |
|  | lolet e tros via collectole   | ora: highlighted in red above.)   |  |   |
| Signature :  |   |   |  | te: 10/03/21  |



# ecord of Inspection (ROI) of High-Aisk Prescribed Electrical Work

180 (swint to the Electricity (Safety) Regulations 2010)



## Reference/Record Number:

| <u> </u>   | Nationwired green   |  |  |  |              |
|--|---|--|--|--|--------------|
| Issuer (inspector)   | details   |  |  |  |              |
| Name of Inspector:   | Gavin Bodey   |  | Registration #:  | 1250728  |              |
| Final, Addings   | gavin@bodeyspark.   | ga nz  | Telephone.   | C21 428 820  |              |
| Location of Instal   | lation:   |  |  |  |              |
| Location details:  | Greenhill park subdi  | ivlaron, Area M, Streetlight   | 134 stage 9-15   |  |              |
| Location Type:   | Comestic  | Non-Correstic Accommo  | casien 📋   | ndustral   | Commerce     |
|  | Educational   | Healthcare   |  | Miscellaneous (other)  |              |
| Cectifying Electric  | al Work and Certifica   | to of Compliance (CoC) deta  | lls:   |  |              |
| Name of Kentre all<br>worker(s):   | Yeti Martyn   |  | Registration #:  | E257490  |              |
|  |   | · · · · · · · · · · · · · · · · · · ·  | <u>:</u>   | EW121000   |              |
| CoC details:   | Nationwired 19832   |  | :  | Cod(s) at tacked   |              |
|  |   |  | :  |  |              |
| yslem. Bonding all   | Pale and decime! dogs.  | N libbard New Main Neutral Ex<br>neard(s), or identify the certified   |  | -<br>  | :            |
| yslem. Bonding of  Specify the regulation of the segulation of the | Pole and decine! dogs.  on(s) and companion stall  s of the inspection  |  |  | -<br>  | ·            |
| yslem. Bonding of<br>Specify the regulation<br>S/NZS3000 part 2<br>What are the result<br>arthing and concin<br>plenty<br>LE Climp < 5 Ohn   | Pale and decine! dogs.  on(s) and companion stal  s of the inspection ig visual ok  | ndard(s), or identify the certified  |  | -<br>  | ·            |
| yslem. Bonding of  Specify the regulation S/NZS3000 part 2  What are the result arthing and ponent of the Color of the Col | Fale and decine! dogs.  on(s) and companion state  s of the inspection  ig visual ok  HIRPA #0058304  | ndard(s), or identify the certified  |  | -<br>  |              |
| ystem. Bonding of specify the regulation S/NZS3000 part 2 What are the result arthing and concar olderly I.E.C. imp < 5 Ohin I.E.N. link. High Risk Categor  Yet to AS/NZS 30 High willage install   | Pale and cabinet dags.  on(s) and company of state  s of the inspection  ig visual ok  HIRPA #0058304  Of Part 2 - SA(2)(a)(b)  Intion - SA(2)(a)(b)  | ndard(s), or identify the certified  | J design, folkowed when  | -<br>  | -54(2)/a)(   |
| ystem. Bonding of Specify the regulation S/NZS 3000 part 2 What are the result arthing and concar olderly NEI Chicago S Ohio NEI NI link.  High Risk Categor High walkage install Monts parallel game.   | Pale and cabinet dags.  on(s) and company of state  s of the inspection  ig visual ok  HIRPA #0058304  Of Part 2 - SA(2)(a)(b)  Intion - SA(2)(a)(b)  | inderd(s), or identify the certified  #115/G  Photogonials system = (A)?  Hazarobus and = 64(2)(s);  | J design, folkowed when  | Uedrical medical area  | - 5A(2)/a)(  |
| ystem. Bonding of specify the regulation S/NZS3000 part 2 What are the result arthing and pontarional part of the North AS/NZS3000 High Waltage install and part of the Part of AS/NZS300 High waltage install and part of the Part of AS/NZS300 High waltage install and part of the Part of AS/NZS300 High waltage install and part of the Part of AS/NZS300 High waltage install and part of the Pa | Pale and decine! dogs.  co(s) and companion state  s of the inspection  g visual ok  HIRPA #0058304  CO Part 2 - SA(7)(a)(i)  Intion - GA(2)(a)(ii)  colon - GA(2)(a)(ii)  this work coscribed ab | #115/3  Photovoliak system = (A)/   Animal standing or most co   | Jidesigh, followed when the secondance with the re-  | Uedrical medical area    Uedrical medical area   Mains week = bA(∕)(b) | - \$A(2)(A)( |
| ystem. Bonding of specify the regulations (NZS 3000) part 2. What are the result arthing and concent of the Chimp < 5 Ohm. LEIN link.  High Risk Category State ASANAS 30. High vallage install are of the Chimp specific general places described as the Category Category (Name of the Category) and the Category C | Pale and decine! dogs.  on(s) and companion stall  s of the inspection  g visual ok  HIRPA #0058300  Discon = 6A(2)(a)(b)  orba:  I the work cescribed also the work has been done.               | #115/3  Photovoliak system = (A)?  I starbus and = 64(?)(a);  Animal starking or most or   | Jidesign, followed when (i) (A)(iv) (i) and itioning = 6A(Z)(i) (ii) (coordance with the representation of the management of the coordance with the representation of the coordance with the representation of the coordance with the representation of the coordance with the representation of the coordance with the representation of the coordance with the representation of the coordance with the representation of the coordance with the representation of the coordance with the representation of the coordance with the representation of the coordance with the coordance with the representation of the coordance with the coo | Uedrical medical area    Uedrical medical area   Mains week = bA(∕)(b) | - 5A(Z)(A)(i |
| ystem. Bonding of specify the regulation S/NZS 3000 part 2  What are the result arthing and concent of the conc | Pale and decine! dogs.  on(s) and companion stall  s of the inspection  g visual ok  HIRPA #0058300  Discon = 6A(2)(a)(b)  orba:  I the work cescribed also the work has been done.               | inderd(s), or identify the certified  1115/3    Photosolials system = (i4);   Hazaroous arror = (i4);   Animal sturying or most or  give has been state in grant when your most or  give has been state in grant when your most or  give has been state in grant when your most or  give has been state in grant when your most or  give has been state in factors in grant when your most or in the system in the syste | I design, followed when the secondance with the report of the region of  | Uedrical medical area    Uedrical medical area   Mains week = bA(∕)(b) | -54(2)/a/(   |



# Recent of Inspection (RCI) of High-Risk Prescribed flectrical Work

(Poissant to the Medicinity (Solvey) tegelations 2006)

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|  | Reference/Record Nu                            | ımber;   |                        |  |            |
|--|--|--|------------------------|--|------------|
| $\sim$                                     | Nationwired greenfull                          |  |                        |  |            |
| Issuer (Inspector)                         | details:                                       |  |                        |  |            |
| Name of Inspector                          | Gavan Bodey                                    |  | Registration #-        | 1250728                                |            |
| Fraul Articess                             | yavn@podcyspark.co.                            | nz   | Teleptione:            | 021 428 520                            | •          |
| Location of Instal                         | lation:  |  |                        |  |            |
| Epsonion details:                          | Greenfill park subdivisi                       | ion, Area M, Streetlight 135                   | . stage 9-15           |  |            |
| Location Type:                             | Comestin                                       | Nor-Dosnestic Accommodatio                     | .   n                  | dustral _                              | Commercial |
|  | Editorional                                    | Healthcare                                     | ₹ 4                    | listellanecus (±ther)                  |            |
| Certifying Electric                        | cal Work and Certificate c                     | of Compliance (CoC) details:                   |                        |  |            |
| Name of Electrical worker[s]:              | Yeti Martyn                                    |  | Hegist-ation #:        | €257490                                |            |
|  |  |  |                        | EW121000                               | :          |
| Coff details:                              | Nationwired 15833                              |  |                        | CoC(s) antached                        |            |
|  |  |  |                        |  |            |
|  | col Work and CoC details:                      | :  |                        |  |            |
| What was inspector<br>New Installation, Ne |  | oard, New Main Neutral bar ar                  | nd circuit protection. | New Main Earline                       |            |
| System, Bonding of                         | Pale and cabing door                           |  |                        |  |            |
|  |  |  |                        |  |            |
|  |  |  |                        |  |            |
| Specify the regulation AS/NZS 3000 part 2  |  | rd(s), or identify the certified des           | ign, followed when d   | arrying out the inspectio              | rc         |
| nemeosoo piin z                            |  |  |                        |  |            |
|  |  |  |                        |  |            |
|  |  |  |                        |  | <u> </u>   |
| What are the result<br>Earthing and boddin | ,  |  |                        |  |            |
| polarity                                   | -  |  |                        |  |            |
| M.E.C. imp < 5 Ohr<br>M.E.M. lick :        | HRPA #0058306ZC'                               | У  |                        |  |            |
|  |  |  |                        |  |            |
| Migh Risk Catago                           | ıy.  |  |                        |  |            |
| _  | 00 Part 2 GA(2)(a)(f)                          | Proτovodak, system – 6A(Z)(a⅓r                 | Ą                      | Electrical medical and                 |            |
|  | lation – 6A(Z)(x\yi)<br>Xalkon – 6A(Z)(a)iiii) | Herardous area – 6A(2)(e)(v)                   | 24.0014                | <b>Æ</b> i Maris work - 6A(2)(         | μ)         |
| Other – please des                         |  | Animal stunning of meas condict                | condition              |  | ı          |
| Declaration                                |  |  |                        |  |            |
|  | the work described above                       | has been done <i>in A<b>prelia</b> ar o</i> ur | rlanne with são resu   | بالعربية and the <del>محمد بال</del> ا | Sann Zosur |
| eistalfanon on which                       | " the work last been durings                   | when enter <u>ed عمد</u> / est الناس bine.     | ivered, electrically s | ale                                    | - Paris    |
| (More: Stoke out to d<br>Signature         | leigra the inempire of the ord                 | kingslighted in red apoye)                     | <b>.</b>               | _                                      |            |
| againers                                   |  |  | Oate                   | 9.10003631                             |            |



# Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

(20) sound to the Electricity (Safety) Regulacions 2030).



|  | Reference/Record I  | Number;   |   |   |                                  |
|--|---|---|---|---|----------------------------------|
| ري   | Nationwired greens  | i II  |   |   |                                  |
| (Inspector   | detells   |   |   |   |                                  |
| Nama of Esspector:   | Gavin Bodey   |   | Registration #:                             | 1250728                                 |                                  |
| Email Address:   | gavin@bodeyspark.c  |   | Telephone:                                  | 021 428 820                             |                                  |
| Location of Insta  | llation:  |   |   |   |                                  |
| Location details:  | Greenhill park subdiv   | rsion, Area M, Streetlight 130  | . stage 9-15                                |   |                                  |
| Location Type  | ☐ Domestic  | Non- Ximestic Accommodate   | en 🔲 i                                      | ndustr'al                               | Соттегска                        |
|  | Ecicational   | - Healthware  | <b>2</b>                                    | tisrellaaeous (other)                   |                                  |
| Certifying Electri   | cal Work and Certificate  | o of Compliance (CoC) details:  |   |   |                                  |
| Name of Electrical   | Yeli Martyn   |   | Registration #:                             | E257490                                 |                                  |
| worker(s):   |   |   |   | EW121000                                |                                  |
| CoC details:   | Nalionwired 15834   |   |   | CoC(s) at tach                          | æJ                               |
|  |   |   | :   | _                                       |                                  |
| AS/NZS3000 part 2  What are the result  Earthing about bordin  polanty  M.E.O. irro < 5 Ohr  M.E.N. Irrk | is of the inspection<br>ng visual nk  | and(s), or identify the certified des   | igai, i autawed wite ii                     |   | ecuar                            |
|  |   |   |   |   |                                  |
| High Risk Catego   | T/-   |   |   |   |                                  |
| 🔲 Fig.] voltage i stal   | (OD Part 2   GA(2)(a)(i)<br>(Lation = GA(2)(a)(ii)<br>e ation = 5A(2)(a)(ii)<br>scribe. | Photovoltaic system - GA(2)(a)(i)  Harardous area = GA(2)(a)(v)  Animal stunning or meal condit |   | ElectYcal modic ✓ Moins work = 6        | a. area – SA(21/2)(4)<br>A(2)(6) |
| Dectaration  |   |   |   |   |                                  |
| Linerally confirm tha  | at the work described abo<br>In the work has been dom                                   | w, has been done <i>in / a - t a</i> Lacco<br>i is, and will be / <u>apt ha</u> , when ed       | rdance with the reg<br>ivened, electrically | ulations; and the <del>no</del><br>safe | <del>Half gion</del> / part      |
|  | Julotu tira manania dipute  | ar Linghlighted mied abom)  |   |   |                                  |
| Signature:   |   |   | Dai   | te invervai                             |                                  |



## Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Pursuant to the Bed rang (Safety) Bagolations Sand;

| $\triangle$   | Reference/Record N   | armhar-   |   |                                  |                    |
|---|--|---|---|----------------------------------|--------------------|
| /⊗\   | Nationwired greenit  |   | I   |                                  |                    |
|   |  |   | <u> </u>  |                                  |                    |
| lasuer (Inspector)  | dețeils  |   |   |                                  |                    |
| Name of Inspector   | Gavin Booey  |   | Registration #  | 1250728                          |                    |
| Email: Address  | µаум@bodeyspark.co   | ı.nz  | Telephone:  | 021 426 620                      |                    |
| Location of Irota   | Kation:  |   |   |                                  |                    |
| Location details:   | Greenfill park subdivi   | sion, Area M, Streetlight 1   | 37, stage 9-15  |                                  |                    |
| Location Type:  | Damester   | Non-Domestic Accommo:   | lation  | nougral                          | Commerci           |
|   | Educational  | -leathcare  | <b>∀</b> :  | Pisce laneous (other)            | _                  |
| Certifying Electri  | cal Work and Certificate   | of Compliance (CoC) detail  | l±:   |                                  |                    |
| Name of Electrical  | Yeti Martyn  |   | Kegistration #  | E257490                          |                    |
| workerjst:  |  |   | ]   | EW121000                         |                    |
| CoC details:  | Nationwired 15835  | <del></del>   |   | : CoC(s) atsache                 | .al                |
|   |  |   | i   | . I coupy accept                 | .0                 |
| What are the result<br>Earthing and bondin<br>polarity                          | s of the inspection;   | <b></b>   |   |                                  |                    |
| MEO mo≺5Ohr<br>MEN mk   | r<br>HRPA #0059311V:   | ខន  |   |                                  |                    |
|   |  |   |   |                                  |                    |
| High Risk Catego  | ry:  |   |   |                                  |                    |
| Not to A5/N7S 30  | 00 Part 2 6 <b>A(7)%)[</b> (                                     | Photovoltaic system — 64(2)   | (a)(iv)   | - Ekstrical medica               |                    |
| - ·   | lation = 6A(2)(a//ji)  | $\Box$ -lazardous area $= (A/g)(g)/g$   |   |                                  | Larea – в/(2)(g)(v |
|   |  |   |   | Mains work – SA                  |                    |
|   | e ation = 6/4/2)(a)(iii)   | An real sourning or meat mo   |   | ▼ Mains work – SA                |                    |
| Other - please de-  |  | An oak surring or meat m  |   | ₹ Mains work – SN                |                    |
| Other - please des  | crihe:   |   | ndit oning = \$A(2)(x)  |                                  |                    |
| Declaration hereby continue the   | crihe:<br>t The work described above                             | e has been done in /  | nditioning = \$A(z)(x)<br>  | a letters and the <del>are</del> |                    |
| Other - please de-<br>Declaration<br>hereby confirm the<br>ostaliation on who   | cribe:<br>t the work described above<br>hithe work has been done |   | nditioning = \$A(z)(x)<br>  | a letters and the <del>are</del> |                    |
| Other - please de-<br>Declaration<br>hereby confirm that<br>postodiotranion who | cribe:<br>t the work described above<br>hithe work has been done | e has been done to / <u>pat Au</u> ai<br>is, and with be / <u>mor Au</u> , when | ndiffering = \$A(z)(x)<br>condamile with the reg<br>enliwered, electrically | a letters and the <del>are</del> | (K)(H)             |



## Record of Inspection (EO;) of High-Risk Prescribed Electrical Work

i | Commercial

ly (Safety) Ergulations 2016)

E257490

EW:21000

CoC(s) at technol

Registration #:

|                    |                     |                                 | (Porsuand to the E | ecrnicity (Safet)     |
|--------------------|---------------------|---------------------------------|--------------------|-----------------------|
| $\wedge$           | Reference/Record    | d Number:                       |                    |                       |
| ىپ                 | Nationwired greet   | nhil:                           | <u>:</u><br>-      |                       |
| issuer (Inspector) | detalls:            |                                 |                    |                       |
| Name of Inspector  | Gavin Bodey         |                                 | Reg stration #:    | 1250728               |
| Email Address:     | gavin@bodeyspark    |                                 | " "Niephone        | 021 423 820           |
| Excetion of Instal | lation:             |                                 |                    |                       |
| Location details;  | Greenhill park subc | I vision, Afaa M, Streetlight 1 | 138. stage 9-16    |                       |
| Location Type:     | Domestic            | Non-Comestic Accommo            | cetion 🔲 r         | ndustrial             |
|                    | Edicational         | Нена"каге                       | <b>Ø</b> \         | tisrellaneous (other) |

## Certifying Electrical Work and CoC details:

Nationwired 15835

Name of Cleatras - Yelli Martyn

What was inspected

worker(s):

CoC details:

New installation. New Streetlight with M.E.N. board. New Vain Neutral bar and dirput protection. New Main Earthing System, Bonding of Pole and cabinal door.

Specify the regulation (4) and companion standard (4), or identity the certified design, followed when carrying due the inspection A5/N253000 part 2

What are the results of the inspection barthing and bonding visual ak palanty

M.E.C. imp < 5 Ohro

M.E. N. linx. HRPA YOUSBOYOM2Q

| High Risk Category;  |  |   |
|--|--|---|
| Notite AS/NZS 3000 Part 2 = 6A(7)(a)(i)<br>  High voltage installation = 6A(2)(a)(i)<br>  Mains parallel generation = 6A(2)(a)(ii) | Phonovoltair, system = 6A(2)(e)(e)<br>Litavardous area = 6A(2)(e)(e)<br>Aminial stanning or meat conditioning = 6A(2)(e) | ☐ Electrical medical area = 6A(2)/n(y)  ✓ Mains work = 6A(2)(0) |
| Other - please describe:   |  |   |
| Daglarárien  |  |   |

Thereby confirm that the work described above has been done in / part -caccordance with the regulations, and the <del>reseal when</del> / part installation on which the work has been done is, and will be further ween unlivered, electrically safe.

(More: Strike out or del<u>et a</u>the in<u>equalities) **بر**ناوه ما الم</u>نافية (More: Strike out or del<u>et at</u>he in<u>equalities) (</u>

Signature:

Date: 10/03/21

AUDIA: 02-04/17



# Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

Blursviana to the Blockmany (Spicky) Regulations 2010;

| $\triangle$   |
|---------------|
| $\mathcal{N}$ |
| $\sim$        |

мини **12 с**4/17 **С** 

| $\triangle$                        | Reference/Record t        | Number:  |                          |                                  |                           |
|------------------------------------|---------------------------|--|--------------------------|----------------------------------|---------------------------|
| $\mathbb{Z}$                       | Nation-wred green!        |  |                          |                                  |                           |
| Issuer (Inspector)                 | details                   |  |                          |                                  |                           |
| Name of Inspector                  | Gavin Biodey              |  | Reg strasion its         | 1250728                          |                           |
| Email Address:                     | gavin@bodcyspark.c        |  | Telephone.               | 021 428 823                      |                           |
| Location of Instal                 | llation:                  |  |                          |                                  |                           |
| Location details:                  | Greenhill park subda      | vision, Area M, Streetlight 1                        | 39, stage 9-15           |                                  |                           |
| Location Type                      | Oomestic                  | Non-Dornestic Accommod                               |                          | rdustria.                        | :<br>Carrenertial         |
|                                    | ☐ Esocational             | Healthcare   | ₹ ١                      | 4scellaneous (other)             | _                         |
| Certifying Electri                 | cak Work and Certificat   | e of Compliance (CoC) detai                          | l <u>e</u>               |                                  |                           |
| Name of Electrical worker(s):      | Yeti Mortyn               |  | Registrațion ≉∙          | E257490                          |                           |
|                                    |                           |  |                          | EW121000                         |                           |
| CoC details:                       | Nationwired 15837         |  |                          | CoC(6) Attacho                   | ad                        |
|                                    |                           |  |                          |                                  |                           |
| Certifying Electri                 | ral Work and CoC detail   | lls:   |                          |                                  |                           |
| What was inspected                 |                           |  |                          |                                  |                           |
| System Banding of                  | Pok: and cabinet door     | , board, New Main Moulral ba                         | , said o contibiotection | i. New Main Earthing             | )                         |
| , .                                |                           |  |                          |                                  |                           |
|                                    |                           |  |                          |                                  |                           |
|                                    |                           |  |                          |                                  |                           |
|                                    |                           | daid(s), or identify the certified                   | design, followed when d  | tancying out the rispe           | etion                     |
| AS/NZS 3000 par; 2                 |                           |  |                          |                                  |                           |
|                                    |                           |  |                          |                                  |                           |
|                                    |                           |  |                          |                                  |                           |
| What are the result                | s of the inspection.      |  |                          |                                  |                           |
| Earting and bonds                  |                           |  |                          |                                  |                           |
| i polarity<br>IM.E.G. impl≪ 5 Ohri |                           |  |                          |                                  |                           |
| M.E.N. link                        | <br>∴RPA #00383158        | F7X  |                          |                                  |                           |
|                                    |                           |  |                          |                                  |                           |
| High Risk Categor                  | rys                       |  |                          |                                  | ·                         |
|                                    | 00 Part 7 = 64(2\$53)     | Photovoltak system – 6A(2)                           | ialia'                   | Hechical mecka                   | Larva – 68/2/fotóró       |
|                                    | lation = 64(2)(c)(d)      | Harardous grea – (A(2)ja)(4)                         |                          | Maris work – 6A                  |                           |
| Moins perateligen                  | eretion = 6A(2)(e)(ii)    | Animal sounding or meal co                           |                          |                                  | ,                         |
| Other – please des                 | arian                     | •  |                          |                                  |                           |
| Declaration                        |                           |  |                          |                                  |                           |
| Thereby confirm tha                | t the work described also | ve has been done to /p                               | constance with the reg   | ulations: and the <del>son</del> | <del>y #unoo</del> / part |
| visteileboù ta which               | h the work has been dore  | e is, and <i>will be / <mark>not pe,</mark></i> when | entivened, electrically  | sale                             |                           |
|                                    | feleto tine insuration of | uds Inghtligisted in Led above )                     | _                        |                                  |                           |
| Signature                          |                           |  | Exp                      | <sup>68</sup> 49/03/21           |                           |

|   | EFERENCE/CERT  | CERTIFICATE OF CONTRICATE ID No.: NWELCO   | DC1583  <br>d electrical workers r        | o certify that   | installations or Part ins  |             | 8           |
|---|--|--|---|--|--|-------------|-------------|
| ocation Details:  | OF THE PARTY OF TH | ion Area M - Stage   |   |  |  | 137         | 3           |
| Contact Details:<br>Name and address)                     |  |  |   |  |  |             |             |
| lame of Electrical<br>vorker:                             | Yeti M   | artyn  | Registration/I                            |  | E257490  |             |             |
| hone & email:   |  | yetmartyn@hotmail.com  |   |  |  |             |             |
| ame and registration<br>f person(s) supervis              |  |  |   |  |  |             |             |
| ertificate of Con<br>ype of work:<br>he prescribed electr | ATTENDED OF THE PERSON OF THE  | Addition<br>Low risk   | ☐ Altera                                  | 2007   | New work High-risk (Spec   | ify);       |             |
|   | or electrical  | Part 1 of AS/NZS code of practice were rec   | uired: 🔳 No                               | The second secon | 3000<br>pecify):   |             |             |
|   |  | ibed electrical work unde<br>connect to a power supply   |   | Yes 🗆  | No   |             |             |
| ecify type of suppl                                       | and the second second  |  |   |  |  |             |             |
|   | The second   | stem that is correctly rat   | ed (where applica                         | ble) I   | Yes 🗌  | No          |             |
|   |  | this certificate relates tha   |   |  | ower supply?   | 0751        |             |
| All Parts (spe  | The state of the s |  |   |  |  |             |             |
| e work relies on m  | anufacturers   | instructions:  |   | res [  | No   |             |             |
| r provide reference to re                                 | adily accessible   | uding name, date and version. A<br>electronic format, eg Internet lin<br>NO Stork Litte Brotier LED street leven | ric]                                      | nanufacturer'  | s instructions to this ce  | etificate.  |             |
| Link:<br>ha work has haan d                               | one in accord  | lance with a certified des   | ign: 🔳 🕦                                  | ·  | 1 41-  |             |             |
|   |  | ig name, date and version. Also  |   | res  | No   |             |             |
|   | adily accessible   | electronic format, eg Internet lin   |   | anno deng  | THE SHARE CONTRACTOR   |             |             |
| yes - Identify the SDoC in                                | cluding name, di   | aration of Conformity (SE<br>are and version OR EESS registra<br>alactronic format, eg Internet lin              | tion. Also attach a co                    | fes<br>py of the SDo   | No<br>C to this certificate.   |             |             |
|   | n extidactorii   | y tested in accordance with  | all a literatura de la ferma              |  |  | . Els       |             |
| escription of Work  |  | y tristed in accordance with   | the electricity (san                      | ety) regulat   | Test Results (   | No TY       |             |
|   | 1000000000   | with LED Head  |   |  | Polanty  | provide va  | mest        |
|   |  |  | o Cod Mold                                |  | (Independent earth):   | CAUSE OF    |             |
|   |  | Earth and Earth Stal   | ke, Cad Weld                              | ed   | insulation resistance:   |             | M Ohms      |
| Connection - L  |  | Inflore for all  |   |  | Earth Continuity:  | 0.1         | Ohms        |
|   |  | lation by others.  |   |  | Banding  | 0.1         | Ohms        |
| ivened by othe  | Irs.   |  |   | F  | ault Loop Impedance  |             | Ohms        |
|   | VIII WALLEY LINE   |  | SX-300F-00-16                             |  | Other (specify):   |             |             |
| signing this docun<br>plies has been don                  | ent I certify to<br>e lawfully and   | that the completed prescr<br>safely, and the informat  | ribed electrical w<br>tion in the certifi | vork to whi<br>cate is con   | ich this Certificate<br>rect.  | of Compli   | ance        |
| ifier's signature:  | 4111   |  |   | Date: 09/0   | 3/2021   |             |             |
| lectrical Safety C  |  | that the feetalleties  | and of the lead                           | ilation to   | which out on the   | 10.1        | - 4000      |
| pplies is connected                                       | to a power si  | that the installation, or upply and is safe to use.  | part or the insta                         | nation, to   | wnich this Electric  | al Safety ( | Lertificate |
| rtifier's   | o power st   | pprij sina is suic to use:   | R   | egistration/   | Practising   |             |             |
| ime:  |  |  |   |  | The second secon |             |             |
|   |  |  | lit                                       | ence numb  | eri  |             |             |

| <b>M</b> :   | EFERENCE/CER                             | CERTIFICATE OF CONTIFICATE ID No.: NWELCO   | C1583 2            | ers to certify that                     | installations or Part ins  |             | 7           |
|--|--|---|--------------------|---|--|-------------|-------------|
| ocation Details:   | MARKET STREET                            | ion Area M - Stage 9  |                    |   |  | 1.34        |             |
| Contact Details:<br>(Name and address)   |  |   |                    |   |  | 107         |             |
| Name of Electrical<br>worker:  | Yeti M                                   | artyn   | Registratio        | on/Practising<br>mber:                  | E257490  |             |             |
| Phone & email:   |  | yulmurlyn@holmail.com   |                    |   |  |             |             |
| Name and registration of person(s) supervise   |  |   |                    |   |  |             |             |
| Certificate of Con<br>type of work:<br>The prescribed electr                           |  | Addition<br>Low risk  | 200                | teration<br>eneral                      | New work High-risk (Spec   | ofd:        |             |
|  | or electrical                            | Part 1 of A5/N2S 3 code of practice were req  | uired:             |   | 3000<br>pecify):   |             |             |
| La 1980 M. Sala Sala Sala Sala Sala Sala Sala Sal                                      | are safe to o                            | ibed electrical work under<br>connect to a power supply   |                    | Yes [                                   | ] No   |             |             |
|  | The second second                        | ystem that is correctly rate  | od fusham and      | Destroy F                               | . v 🗀  |             |             |
|  |  | this certificate relates that   |                    |   |  | No          |             |
| All Parts (spe   |  | uns ceruncate relates triat   | t are sale to      | onnect to a p                           | ower supply?   |             |             |
| he work relies on m  |  | instructions:   |                    | Yes [                                   | ] No   |             |             |
| yes – identify the instruc<br>Or provide reference to re<br>Identify: Manufactures ass | tion manual including<br>addy accessible | uding name, date and version. Als<br>electronic format, eg Internet liei<br>OLU Blok Little Brotter LSD asset Lawre | k)                 | of manufacturer                         |  | ertificate. |             |
| Unk:   | and to accom                             |   |                    |   | -  |             |             |
|  |  | fance with a certified designs rame, date and version. Also a   |                    | Yes L                                   | ] No   |             |             |
| Dr provide reference to re<br>identify: Carifol duagratio<br>Link:                     | sadily accessible                        | electronic format, eg Internet lini   | k.)                | ne certineo desq                        | yn to this certificate.  |             |             |
|  | Supplier Decl                            | laration of Conformity (SD  | oC): 🔳             | Yes [                                   | ] No   |             |             |
| yes - Identify the SDoC in   | cluding name, di                         | ate and version OR EESS registrat<br>electronic format, eg Internet lici  | ion. Also attach   |   |  |             |             |
| Link:  |  |   |                    |   |  |             |             |
| he installation has bee  | en satisfactorily                        | y tested in accordance with t   | he Electricity (   | Safety) Regula                          | tions 2010   | No TY       | es          |
| Description of Work  |  | avointaisaam misa   |                    |   | Test Results (   | provide va  | lues)       |
| Install New Stre   | et Column                                | with LED Head   |                    |   | Polarity<br>(Independent earth):   |             | 0.000       |
| Install MEN Boa  | ard, Main E                              | Earth and Earth Stak  | e, Cad W           | elded                                   | Insulation resistance:   | 200+        | M Ohms      |
| Connection - L   |  |   | evinseoviteidi     | 200000000000000000000000000000000000000 | Earth Continuity:  | 0.1         | Ohms        |
| Mains Cable, M   | ains Instal                              | lation by others.   |                    |   | Bonding  | 0.1         | Ohms        |
| Livened by othe  |  |   |                    |   | Fault Loop Impedance   |             | Ohms        |
| - 8  |  |   |                    |   | Other (specify):   |             |             |
| y signing this docum   | ent I certify I                          | that the completed prescri<br>d safely, and the informat  | ibed electric      | el work to wh                           | ich this Certificate   | of Compli   | ance        |
| 33-25-27   | 0/1/                                     | savery and the undimat  | war in the ce      | onm                                     | Name of the last o |             |             |
| tifier's signature:  | 944                                      |   |                    | Date: USVD                              | 3/2021   |             |             |
| lectrical Safety C<br>by signing this docum  | nent I certify                           | that the installation, or p   | art of the in      | stallation, to                          | which this Electric  | al Safety ( | Certificate |
| pplies is connected  | to a power sa                            | upply and is safe to use.   |                    |   |  |             |             |
| ertifier's<br>ame:   |  |   |                    | Registration/                           |  |             |             |
| ertifier's   |  | Certificate<br>Issue Date:  |                    | Connec                                  | er:<br>tion Date:  |             |             |
| CUSTO  | MER CORY - TH                            | HE IS AN IMPORTANT DOCUMEN  | OF AMES CONTRACTOR | ne nervinen se                          |  |             |             |

|   |   | CERTIFICATE OF COI   | MPLIANCE & ELEC                               | CTRICA  | L SAFETY CER  | RTIFICAT  | E           |
|---|---|--|---|---|---|-----------|-------------|
| Th  | is form has been  | n designed to be used by license<br>1000 are sale to be connected to   | the specified system of ele                   | ectrical su                                   | pply.   |           |             |
| ontact Details:   | Subdivis  | ion Area M - Stage   | 9 to 15 Greenhill                             | Park  | Hamilton #,   | 135       |             |
| ame of Electrical   | Yeti M  | artyn  | Registration/Pract                            | tising E                                      | E257490   |           |             |
| one & email:  | h   | yetimartyn@hotmail.com   |   |   | L   |           |             |
| me and registratio<br>person(s) supervise   |   | yearnery age of the control  |   |   |   |           |             |
| ertificate of Com<br>pe of work:<br>e prescribed electr   |   | Addition Low risk  | ☐ Alteration☐ General                         |   | New work High-risk (Spec                                | ifvi:     |             |
| eans of compliance<br>ditional Standards  |   | Part 1 of AS/NZS code of practice were req   | process process                               | S/NZS 30<br>Yes (spe                          | 3.330.  |           |             |
|   |   | ibed electrical work unde  |   | - var false                                   | Sec. Marie  |           |             |
|   | The second second second  | connect to a power supply  | y? 🔳 Yes                                      |   | No  |           |             |
| ecify type of suppl   | The same of the same  |  |   |   |   |           |             |
|   |   | ystem that is correctly rat  |   | •   | Yes 🔲   | No        |             |
|   |   | this certificate relates tha   | t are safe to connect                         | to a pov                                      | wer supply?   |           |             |
| All Parts (spe<br>work relies on m  |   | Instructions   | E   | F71   | 02420   |           |             |
|   |   | i instructions:<br>uding name, date and version, Al  | ■ Yes   |   | No  | MIP-out-  |             |
| provide reference to re-<br>tentify: Manufacturers man  | adily accessible  | electronic format, ag Internet lin<br>OLU Stork Little Brother LEO street haves  | ik.]  | acturor s.a                                   | narractions to this cer                                 | ismoate.  |             |
| inic<br>a wurk has baan de  | ana in accord   | dance with a certified desi  |   |   | - Wa  |           |             |
|   |   | grame, date and version. Also  |   | ud desires t                                  | No<br>nation continues                                  |           |             |
|   |   | electronic format, eg Internet An  |   | to design t                                   | o the curtingne.  |           |             |
| lentify: Continuidesign attac   | test Passinsy Light   | ig Plan chawing  |   |   |   |           |             |
| ink:<br>e work relies on a S  | Supplier Decl   | laration of Conformity (SD   | OoC): Ves                                     | П   | No  |           |             |
|   |   | ate and version OR EESS registral  |   | the SDoC t                                    |   |           |             |
| provide reference to re-  | Aller Aller   | electronic format, eg Internet lin   |   | 110000790                                     | C.1110.231111.0001001                                   |           |             |
| lentify: SONC arouted<br>rdc.   |   |  |   |   |   |           |             |
|   | n satisfactorile  | y tested in accordance with t  | the Flectricity (Safety) B                    | Tanufatio                                     | ns 2010   | No TY     | 20          |
| scription of Work:  |   | The state of the s | me crecurry (sarcty) is                       | regulation                                    | Test Results (p   |           |             |
| stall New Stre  | et Column   | with LED Head  |   | 1700  | Polarity  |           | The same of |
|   |   | arth and Earth Stak  | ce Cad Welded                                 |   | dependent earth):                                       | 200       | 11 01       |
| Connection - L  |   | torar one Earth ordi   | to, oud froided                               | 1   | ulation resistance:<br>arth Continuity:                 |           | M Ohms      |
|   |   | lation by others   |   | ,   | Bonding:  | 0.1       | Ohms        |
| ains Cable, Ma  |   | man of onlors.   |   | Fac   | it Loop Impedance                                       | 0.1       | Ohms        |
|   |   |  |   | 1   |   |           | Onins       |
|   |   |  |   | 1 3   | Other (specify):  |           | Onms        |
| vened by othe   | rs.   | hat the completed presen   | ribed electrical work                         |   | Other (specify):  | of Compt  |             |
| vened by other  | rs.<br>ent I certify/   | hat the completed presci   | ribed electrical work                         | to which                                      | this Certificate  | of Compli |             |
| vened by other  | rs.<br>ent I certify/   | hat the completed presci<br>d safely, and the informal   | tion in the certificate                       | to which                                      | this Certificate  | of Compli |             |
| vened by other<br>signing this docum<br>dies has been done<br>fier's signature:   | rs.<br>ent I certify<br>lawfully gne                            | that the completed presci<br>d safely, and the informat  | ribed electrical work tion in the certificate | to which                                      | this Certificate  | of Compli |             |
| vened by other<br>signing this docum<br>plies has been done<br>fier's signature:  | ent I certify<br>e lawfully and<br>ertificate                   | d safely, and the informat   | tion in the certificate Date:                 | to which<br>is corre<br>09/03/                | this Certificate<br>ct.<br>2021                         |           | ance        |
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|  | is form has been d<br>int 2 of AS/NZS 300  | designed to be used by license<br>to are safe to be connected to   | d electrical workers to certify<br>the <u>specified</u> system of elect   | that installations or Part ins<br>trical supply.   | tallations under Part 1 or                |
|--|--|--|---|--|---|
| ocation Details:   | Subdivisio   | on Area M - Stage  | 9 to 15 Greenhill F   | Park Hamilton #  | 136                                       |
| Contact Details:<br>(Name and address)   |  |  |   |  |   |
| Name of Electrical<br>worker:  | Yeti Ma  | ırtyn  | Registration/Practis<br>licence number:   | E257490  |   |
| hone & email:  | 5  | ye5martyn@hotmail.com  |   |  |   |
| Name and registration<br>of person(s) supervis   | Selection of the Select |  |   |  |   |
| Certificate of Com<br>Type of work:<br>The prescribed electr   |  | Addition Low risk  | Alteration General  | New work High-risk (Spec   | ifel:                                     |
| Means of compliance  |  | Part 1 of AS/NZS   | 3000 Part 2 of AS/  |  |   |
|  |  | ed electrical work unde  |   | 2 Jahorit Alvi   |   |
|  |  | nnect to a power supply  |   | □ No   |   |
| ipecify type of suppl  | - books are a  |  |   |  |   |
|  |  | tem that is correctly rat  |   | ■ Yes 🗌  | No  |
| The second secon |  | is certificate relates tha   | it are safe to connect to   | a power supply?  |   |
| All   Parts (spe   |  | 074-0084000-00   |   | T-14   |   |
| he work relies on m  |  |  | ■ Yes   | ☐ No   |   |
| yes – identity the instruc<br>Or provide reference to or   | Son manual includi<br>selib accessible ele   | ing name, date and version. A<br>extronic format, eg internet lir  | iso attach a copy of manufact   | turer's instructions to this co  | rtificate.                                |
|  |  | J Stok Little Brother LED street turns   |   |  |   |
| Link:  |  |  |   | 000  |   |
|  |  | nce with a certified des   |   | □ No   |   |
| yes - identify the certifie  | d design including   | name, date and version. Also   | attach a copy of the certified  | design to this certificate.  |   |
|  | Heat Physics State Cie<br>Feet Physics Upbing F  | ectronic format, eg Internet lin<br>Pun sewng  | 8.3   |  |   |
| Link:  | See all part of the second of the  |  |   |  |   |
| Link:<br>The work relies on a  |  | ration of Conformity (SE   |   | □ No   |   |
| Link:<br>he work relies on a<br>yes - identify the SOoC in   | cluding name, date   | and version OR EESS registra   | tion. Also attach a copy of the   |  |   |
| Link:<br>he work relies on a<br>yes - identify the SDoC in<br>or provide reference to re   | cluding name, date   |  | tion. Also attach a copy of the   |  |   |
| Link:<br>he work relies on a<br>yes - identify the SOoC in   | cluding name, date   | and version OR EESS registra   | tion. Also attach a copy of the   |  |   |
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| Link:  he work relies on a  yes - identify the SDoC in  Or provide reference to re  identify: 80 october  Link:  he installation has bee  Description of Work  Install New Stre  | cluding name, date<br>adily accessible ele<br>on satisfactorily t<br>:<br>et Column v  | eard version CR EESS registrar<br>ectronic format, eg internet in<br>ested in accordance with the                                      | tion. Also attach a copy of the<br>sk. <br>the Electricity (Safety) Rep   | gulations 2010 Test Results ( Palarity (Independent earth):  | provide values)                           |
| Link: the work relies on a lives - identify the SDoC in provide reference to relidentify: 800C allached Link: the installation has been pescription of Work Install New Streinstall MEN Bostinstall MEN Bostin | cluding name, date<br>adily accessible ele<br>on satisfactorily t<br>:<br>eet Column v<br>ard, Main Ea   | and version CR EESS registrar<br>ectronic format, eg Internet In<br>ested in accordance with   | tion. Also attach a copy of the<br>sk. <br>the Electricity (Safety) Rep   | gulations 2010 Test Results ( Polarity (Independent carth) Insulation resistance:  | provide values) 200+ M Ohms               |
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| Link: the work relies on a syst-identify the SDoC in provide reference to residentify: 8000 abushes Link: the installation has been description of Work install New Streinstall MEN Boar Connection - Links Mains Cable, M   | en satisfactorily to<br>et Column vard, Main Ea<br>ight Risk<br>ains Installa  | eard version CR EESS registral<br>ectronic format, og internet in<br>rested in accordance with<br>with LED Head<br>arth and Earth Stak | tion. Also attach a copy of the<br>sk. <br>the Electricity (Safety) Rep   | gulations 2010  Test Results ( Pularity (Independent carth): Insulation resistance: Earth Continuity   | provide values) 200+ M Ohms               |
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| Link: the work relies on a syst - identify the SDoC in provide reference to relidentify: 80xC abschart Link: the installation has been description of Work install New Streenstall MEN Boar Connection - Leading Cable, Mains Cabl | cluding name, date<br>adily accessible ele<br>en satisfactorily to<br>eet Column vard, Main Ea<br>ight Risk<br>ains Installa   | eard version CR EESS registral<br>ectronic format, og internet in<br>rested in accordance with<br>with LED Head<br>arth and Earth Stak | the Electricity (Safety) Reg<br>ke, Cad Welded  | gulations 2010  Test Results ( Pularity (Independent carth): Insulation resistance: Earth Continuity Bonding: Fault Loop impedance Other (specify):  | 200+ M Ohms 0.1 Ohms 0.1 Ohms Ohms        |
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| tink: The work relies on a stress identify the SOCC in provide reference to release to the less than | etuding name, date adily accessible ele- en satisfactorily to a common vard, Main Ea- ight Risk ains Installa- ies a continue of the continue  | ested in accordance with a with LED Head arth and Earth State at the completed prescription by others.                                 | the Electricity (Safety) Replace of the sk.    the Electricity (Safety) Replace of the ske, Cad Welded  ribed electrical work to tion in the certificate is Date: | gulations 2010  Test Results ( Polarity (Independent carth): Insulation resistance: Earth Continuity: Bonding: Fault Loop Impedance Other (specify): which this Certificate correct. 29/03/2021  | 200+ M Ohms 0.1 Ohms 0.1 Ohms Ohms Ohms   |
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| <b>∧</b> E   | LECTRICAL  | CERTIFICATE OF CO  | OMPLIANCE & E                     | LECTRIC                    | AL SAFETY CER  | TIFICATE                                |  |
|--|--|--|-----------------------------------|----------------------------|--|---|--|
| Th   | is form has bee  | TIFICATE ID No.: NWELC<br>in designed to be used by agent<br>3000 are safe to be connected:  | OC1583 5                          | certify that of electrical | nstallations or Part inst  | allations unde                          | r Part 1 or  |
| ocation Details:   | HARRIES TO THE TOTAL PROPERTY OF THE PARTY O | ion Area M - Stage   |                                   |                            |  | 137                                     |  |
| Contact Details:<br>Name and address)  |  |  |                                   |                            |  | <u> </u>                                |  |
| lame of Electrical<br>vorker:  | Yeti M   | lartyn   | Registration/Policence number     |                            | E257490  |   |  |
| hone & email:  |  | yetimurtyn@hotmail.com   |                                   |                            |  |   |  |
| ame and registration<br>f person(s) supervise  |  |  |                                   |                            |  |   |  |
| ertificate of Com<br>ype of work:<br>he prescribed electri                               |  | Addition<br>Low risk   | ☐ Alterat                         |                            | New work High-risk (Seed)  | fyt                                     |  |
| leans of compliance:   |  | Part 1 of AS/NZS   | 3000 Part 2 o                     | of AS/NZS                  | Control of the Contro |   |  |
|  |  | ibed electrical work und   |                                   | 1 162 (2)                  | ecny)a   |   |  |
|  | The second second  | connect to a power supp  | dy?                               | es 🗀                       | No   |   |  |
| pecify type of supply  | The second second  | CONTRACTOR OF STREET AND ADDRESS OF THE PARTY OF THE PART |                                   |                            |  |   |  |
| arts of the installation   | on to which  | ystem that is correctly ra<br>this certificate relates th  |                                   |                            | Yes<br>ower supply?  | No                                      |  |
| All ☐ Parts (spec<br>ne work relies on ma  |  | instructions   | ■ Ye                              |                            | No   |   |  |
| yts – identify the instructi<br>r provide reference to rea<br>Identify: Navadassera near | ion manual includity accessible  | uding name, date and version,<br>electronic format, og Internet i<br>OLU Ston Little Brother LED street læn  | Also attach a copy of ma<br>ink.) |                            | No<br>instructions to this cer   | tificate.                               |  |
| Link:<br>he work has been do   | ne in accore   | dance with a certified de  | sign: W Ye                        | · [                        | No   |   |  |
| yes – Identify the certified   | design includir  | ng name, date and version. Also<br>electronic format, eg Internet i  | attach a copy of the ce           |                            |  |   |  |
| identify: Cerified design attach<br>Link:  | ed Rosteny Light   | ng Man chanceg.  |                                   |                            |  |   |  |
| -  | upplier Dec  | laration of Conformity (5  | DoC): To Ye                       | es 🗆                       | No   |   |  |
| yes - Identify the SDoC inc  | luding name, d   | ete and version CR EESS registr<br>electronic format, eg Internet l  | ation. Also attach a copy         | y of the SDo               | to this certificate.   |   |  |
|  | satisfactoril  | y tested in accordance with  | the Electricity (Safet            | ty) Regulati               | ons 2010   N   | io TYe                                  |  |
| escription of Work:  |  |  |                                   |                            | Test Results (p  | the section was a first than the second | and the same of th |
|  |  | with LED Head  |                                   |                            | Polarity<br>Independent earth):  |   | J1000  |
|  |  | Earth and Earth Sta  | ike, Cad Welde                    |                            | neulation resistance:  | 200+1                                   | d Ohms   |
| Connection - Li  |  |  |                                   |                            | Earth Continuity:  | 0.1                                     | Ohms   |
|  |  | lation by others.  |                                   |                            | Bonding  | 0.1                                     | Ohms   |
| ivened by other  | S  |  |                                   | , F                        | Sult Loop Impedance  |   | Ohms   |
| signing this docume  | ent I certify  | hat the completed pres   | cribed electrical wa              | ork to whi                 | Other (specify):   | of Complia                              | nce  |
| office has been de-  | lawfully on  | d safely, and the informa  | ation in the certific             | ate is corr                | ect.   | or compan                               | -  |
| A 1875   | 11110  |  | 100                               | the Manual Control         | V2021  |   | - 1  |
| tifler's signatures  | H  |  | Da                                | ite:                       | ***************************************  |   |  |
| tifier's signatures<br>lectrical Safety Co<br>y signing this docum                       | ertificate<br>ent I certify  | that the installation, or  |                                   |                            | which this Electrica   | al Safety Co                            | ertificate   |
| tifier's signatures<br>lectrical Safety Co<br>y signing this docum                       | ertificate<br>ent I certify  | that the installation, or upply and is safe to use.  | part of the install               | ation, to v                | ractising  | al Safety Co                            | ertificate   |
| lectrical Safety Co<br>y signing this docum<br>pplies is connected to<br>prtifier's      | ertificate<br>ent I certify  | that the installation, or apply and is safe to use.  | part of the install               | ation, to v                | ractising  | al Safety Co                            | ertificate   |

| 400  | LECTRICAL   | and the second second   | MPLIANCE & ELECTRIC   | CAL SAFETY CER  | TIFICATE   |
|--|---|---|---|---|--|
|  | is form has been  | DEFICATE ID NO.: NWELCO<br>in designed to be used by Icenses<br>3000 are safe to be connected to                | octobases  feectrical workers to pertify that the specified system of electrical  | inotallations or Part inst<br>Supply.   | allations under Part 1 or  |
| ocation Details:   | Subdivis  | ion Area M - Stage 9  | 9 to 15 Greenhill Par   | k Hamilton #  | 138  |
| Contact Details:<br>Name and address)  |   |   |   |   |  |
| ame of Electrical<br>orker:  | Yeti M  | artyn   | Registration/Practising licence number:   | E257490   |  |
| none & email:  |   | yelimartyn@hotmail.com  |   |   |  |
| ame and registration<br>person(s) supervise  | 170.120.000.000.000.00  |   |   |   |  |
| ertificate of Com<br>ype of work:<br>ne prescribed electri   |   | Addition Low risk   | ☐ Alteration<br>☐ General   | New work High-risk (Speci   | (vI:   |
| eans of compliance<br>dditional Standards  |   | Part 1 of AS/N2S :<br>code of practice were req   |   |   | - 7  |
| ite or range of date:  | s that prescri  | ibed electrical work under  | rtaken: (10000000)  | 1 1011  |  |
| ontains fittings that<br>pecify type of supply   | The second second   | connect to a power supply   | ?   Yes   | No  |  |
|  | Branco  | ystem that is correctly rati  | ed (where applicable)   | ∏ Yes □   | No   |
|  |   |   | t are safe to connect to a p  | ed .  | INO  |
| All Parts (spe   |   |   |   |   |  |
| e work relies on ma  |   |   | ■ Yes   | ] No  |  |
| provide reference to re-<br>identify: Manufacturers instru   | adily accessible  | uding name, date and version, Al<br>electronic format, ag Internet lin<br>OLU Stan Litte Buller CED shoot Leave |   | 's instructions to this cer   | tificate.  |
| <sup>Unk:</sup><br>ie work has been do   | one in accord   | lance with a certified desi   | gn: Yes   | ] No  |  |
| es - identify the certified  | d design includin   | ng name, date and version. Also a   | struch a copy of the certified desig  |   |  |
| r provide reference to real<br>Identify: Centred design areas<br>Link:   | adily accessible i  | electronic format, eg Internet lin  | k.j   |   |  |
|  |   | aration of Conformity (SD   |   | ] No  |  |
| the Disposition of the second  |   | ate and section OR EESS constrain   | tion. Also attach a copy of the SDo   | C to this certificate.  |  |
| r provide reference to real<br>Identify: 80xC atachas  | adily accessible (  | electronic format, eg Internet in   |   |   |  |
| r provide reference to real<br>Identify: stoc ataches<br>Links   |   | electronic format, eg Internet iin  | k.)   |   | lo DVes  |
| provide reference to rea<br>dentify: Not aluma<br>unic<br>e installation has been  | n satisfactorily  | electronic format, eg Internet iin  |   |   | The state of the s |
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| Location Details:  | 12203 - 100  | ion Area M - Stage  |  |   | 139   |
| Contact Details:<br>(Name and address)   |  |   |  |   | , ,   |
| Name of Electrical<br>worker:  | Yeti M   | artyn   | Registration/Practis   | E257490   |   |
| Phone & email:   |  | yetimeriyn@hotmail.com  |  |   |   |
| Name and registration of person(s) supervises  |  |   |  |   |   |
| Certificate of Con<br>Type of work:<br>The prescribed electr   |  | Addition<br>Low risk  | ☐ Alteration ☐ General   | New work High-risk (Spec  | itsk.   |
| Means of compliance<br>Additional Standards  |  | Part 1 of AS/NZS code of practice were rec  | 3000 Part 2 of AS/   | NZS 3000<br>s (specify):  |   |
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| the second secon |  |   |  |   |   |
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# Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Pursuant to the Electricity (Safety) Regulations 2010)

| <i>(</i> 2) |
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| A  | Reference/Record   | Momber:  |                             |                                      |                               |
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| <b>/</b> ⊘\  | Nationwired green  |  |                             |                                      |                               |
| Issuer (Inspector)   |  |  |                             |                                      | •                             |
| Name of Inspection   |  |  | Registration #.             | 1250728                              |                               |
| Smail Address  | gavin@bedeyspark.c   | to tž  | <br>. Talephone:            | 321 4 <b>28</b> 82¢                  | · ··· · <del>-</del> :        |
| Location of Instal   |  |  |                             | 22. 123 424                          | :                             |
| Location details:  |  |  | 160-1 0.16                  |                                      |                               |
| Location Type:   | — Comeste  | vision, Arda M. Streetlight  Non-Domestic Accomms  | _                           | helatria.                            | Commercial                    |
| сисацон турк.  | Educational  | Healthcare   | _                           | Miscellaneous (other)                | C COLUMNCIAL                  |
| Certifying Electri   |  | to of Compliance (CoC) deta  |                             | ,                                    |                               |
| Name of Electrical   | Yeti Mariyo  |  | Registration #.             | E257490                              | :                             |
| worker(s).   |  |  |                             | E.W121000                            |                               |
| CoC details:   | Nationwired 15792 St   | reeflight: 109   | _                           | CaC(s) attache                       | :c                            |
| Specify the regulation AS/NZS3000 part 2   |  | dard(s), or identify the certilie:   | <br>1 design, followed when | caraying out the inspe               | <br>ction                     |
| What are the result<br>Earthing and conditionally<br>polarity<br>M.E.O. imp < 5 Ofin<br>V.E.N. ilnk. |  | جدر  |                             | <del></del>                          |                               |
|  |  |  |                             | <del></del>                          | :                             |
| High voltage instal  | 000 Part 2 – 6.6(2)(a)())<br>Nancer – 6.4(2(6)(7)<br>cration – 6.4(2)(a)((i) | Shotovo žaid system = 6A(2<br>i lazardous erec = 5A(2)/al(3<br>Januari systeming or mest o | V.                          | ☐ Electrical medica  ✓ Mains work CA | karea – 5/(2)(a)(4)<br>(2)(b) |
| Declaration  |  | •  | ·                           |                                      |                               |
| Theropy confirm tha  | t the work described abo<br>the work has been see                            | we has bron done in A <b>perio.</b><br>ens, and cell by A <u>pering</u> who                | annodance with the re       | gulations, and the <del>mo</del>     | يەدەر <i>ئىمۇدىد</i>          |
|  |  | ers, and con ser <u>re co</u> p, and<br>ords highlighted in red abovic                     |                             | γ 3611-                              |                               |
| Signature  |  | ,  | <u> </u>                    | <sup>atri</sup> 10/03/21             |                               |



# ecord of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Parshare to rive Sectricity (sedery) Regularizary, 2010)

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| <u>( )</u>  |

| $\triangle$   | Reference/Record  | Number:   |                         |                     |                                |                                     |
|---|---|---|-------------------------|---------------------|--------------------------------|-------------------------------------|
| <u> </u>  | Nationwited greent  | VII.  | <u>_</u>                |                     |                                |                                     |
| Issuer [inspector]  | ) details   |   |                         |                     |                                |                                     |
| Name of Inspector   | Gavin Rocey   |   |                         | Registration #:     | 1250728                        |                                     |
| Hmaj. Address:  | gavn@bodeyspark.c   | ээ. пz  |                         | Telephone.          | 021 428 820                    |                                     |
| Location of Insta   | llation:  |   | •                       |                     |                                |                                     |
| Location details:   | Greenhill park subdic   | /sion, Area M, Street                           | ight 110sl              | age 9-15            |                                |                                     |
| Location Type:  | Domestic  | Non-Domestic Acco                               | mmecation               | <u> </u>            | dustnal                        | Commercel                           |
|   | Educational   | Licathcare                                      |                         |                     | face Ameous (other)            |                                     |
| Certifying Efectri  | cal Work and Certificat   | e of Costipliance (CoC)                         | detalls;                |                     | <u> </u>                       |                                     |
| Name of Bectrical worker(s):  | Yeti Martyo   |   |                         | Registration #:     | E257490                        |                                     |
| worke ye).  |   |   |                         |                     | ≦W12100Đ                       | :                                   |
| CoC details:  | Nationwied 157923 St  | reedight 10                                     |                         |                     | CoC(s) steach                  | ned                                 |
|   |   |   |                         |                     |                                |                                     |
|   | ट्या Work and CoC detal   | lst   |                         |                     |                                |                                     |
| What was inspected  |   |   |                         |                     |                                |                                     |
| Sustano Bandina of  | ew Streetlight with M.E.N<br>Pole and capings goor                          | Doard, New Main Night                           | ւց ըն.9սկ               | arc.ist pratection  | , New Main Earthin             | 9                                   |
| Specify the regulation AS/NZ53000 peril 2   | on(s) and companion stari   | <br>dard(s), or identify the ces                | tifled des 'g:          | , followed when o   | Arryong out the inspi          | Eclior:                             |
| What are the result<br>Earthing and bonds<br>solarity<br>M.E.C. intp < 5 Olm<br>M.E.N. link | ng visual ok,   | (at   |                         |                     |                                |                                     |
|   |   |   |                         |                     |                                |                                     |
| High Risk Categor   | ry:   |   |                         |                     |                                |                                     |
| =   | 00 Part 2 - 6A(2)(b)(i)   | .   Photovoltak system -                        |                         |                     | =                              | al area - 6A/21(a)[4]               |
|   | llation = 6A(2(½)(i)<br>eration = 6A(2)(á)(ii)                              | Hazarikus area - (κ);<br>  Animal stumning or m |                         | on SAGVV            | Mans work – 6                  | AlZI(b)                             |
| Uther – please des  |   |   |                         | •15 ALIENO          |                                |                                     |
| Declaration   |   |   |                         |                     |                                |                                     |
| Lhersby confirm that  | Tithe work described abo  | w has been done in ∕                            | <del>risc</del> aucorda | nce with the log    | dations; and the <del>in</del> | <del>никан га</del> /рас            |
|   | h the work has been dom<br><i>fel<u>era</u>pholic<u>epublis</u>ablige</i> s |   |                         | med, electrically : | SHP.                           |                                     |
| Signature   | 7 25/   |   |                         | Car                 | **: 10/03/27                   |                                     |
|   | 7   | ·   |                         |                     |                                | ··································· |
| M314102 04/17 🕶   | •   |   |                         |                     |                                |                                     |



# Electrical Workers Registration Board AND THE PROPERTY OF STREET

# Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Pursuant to the Electricity (Safety) (legulations 2000)



|  | Reference/Record I   | Number:  |   |   |                                  |
|--|--|--|---|---|----------------------------------|
| رسی  | Nationwired greenh   | :il  |   |   |                                  |
| issuer (Inspector)   | detells  |  |   |   |                                  |
| Name of Inspector:   | Gavin Bodey  |  | Registration #                            | 1250728                                 |                                  |
| Email Address:   | gavin@bodeyspark.c   | o.ńż   | Tetephone                                 | 021 428 820                             |                                  |
| Location of Instal   | llation:   |  |   |   |                                  |
| Cocation details:  | Greenhill park subdiv  | rision, Area M, Streetlight 111  | stage 9-15                                |   |                                  |
| Josetion Type:   | Domestic   | Nan-Contestic Accommodation Healthcare   |   | rdustria.<br>Aucellaneous (ocher)       | Commercial                       |
| Certifying Electri   | cel Work and Certificati   | of Compliance (CoC) details:   |   |   |                                  |
| Nama of Electrical worker(s):  |  |  | Registration ≠.                           | E257490<br>EW121000                     |                                  |
| CoC details:   | Nationwired 15794 Stre   | elight >' *  |   | CoCls) attach                           | ed                               |
| Specify the regulation A5/NZS3000 part 2  What are the result Earthing and bonding polarity M E C. Smo < 5 Ohm M E N. Hrig | en(s) and companion stack  | dard(s), or ideal by the certified designant   | gn, followed when o                       | <br>carrying out the lespe              | ection                           |
| W = 13. 1 W  | 1117 - 1103200720  | 310  |   |   |                                  |
| High Risk Catego   | ry:  |  |   |   |                                  |
| Notes AS/NZS 30  | 00 Part 2 – SA(Z)(A)(f)<br>Tatlon – 6A(Z)(A)(f)<br>eration – 6A(Z)(A)(n) | Photovoltaic system   6A(2)[a](iv<br>  Hazardous area = 6A(2)[a](v)<br>  Animal stunning or meat condition                     |   | (   Dectrical medic                     | otoree - SA(2)(p)(vi)<br>A(2)(b) |
| Declaration  |  |  |   |   |                                  |
| escellation on whic  | h the work has been done   | ve has been dong in A <b>ngelie,</b> accon<br>ais, and will be A <u>ngelia</u> , when er li<br>ards highlighted in red above.) | dance with the reg<br>vened, electrically | ulations, and the <del>44</del><br>safe | <del>rtullation</del> /part      |
| Signature  | J  |  | Dat                                       | tim <u>10/03/21</u>                     |                                  |



Signature:

MB11130 04717 5

## Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

(PPrsuedico Sho Flocaritity (Safety) (Sectlations 3010)

Date 10/03/21:

### Reference/Record Number: Nationwired greenhill Issper (inspector) details: Name of Inspector: Gavin Bodey Registration #: 1250728 Email Addross: gevin@popeyspark co.ne. Telephone: 021 428 820 Location of Installation; Location details. Greenhill park subdivision, Area M, Streetlight 112 stage 9-15 Location Type: Domestic Non-Domestic Accommodation Industrial Commercial Educacional Healthcare Missellaneous (atner) Certifying Electrical Work and Certificate of Compliance (CoC) details: Name of Electrical Yeli Martyn Hegistration #: L25749C worker(s) EW121000 CoC details: Nationwists 15795 Streetight 112 CoC(s) at tached Certifying Electrical Work and CoC datails: What was inspected. Kew Installation, New Streetlight with M.F.N. coard, New Main Neutral Earland circuit protection, New Math Earthing System Banding of Pole and cabinet door. Specify the regulation(s) and companion standard(s), or identity the certified design, followed when carrying out the inspection: A9/NZ93000 part 2: What are the results of the inspection Earthing and bonding vigue: 54, colenly M.F.C. imp < 9.0hm. M.E.N. Sirk. FRPA #0058373Q1C High Risk Category: Not to AS/N2S 3000 Port 2 = 6A(2)(a)(i) Protovoltaid system = 6A(2)[a]((v) Rectifical medical area = 6N/2(a)(y)High voltage installation $-(\Delta k(\xi)(x)/x)$ . Hezordous area -54(2)(x)(y)✓ Maris work – 6A(2)IIS. Mains corallel generation – 6A/2][a](jii) An malisture ling or meat conditioning = 6A(2\(\c)\(\c)\). Other I please describe Rectiration kemby confirm that the work described above has been do to in /a<del>-cole</del>scoordance with the regulations; and the <del>more listing</del> years. association on which the work has been core is, and will be I <u>not be</u> when collivened, electrically safe. (Note: Strike cat or de<u>leted</u> in m<u>nomics bloo</u>re: deligibilitied in red abovo).



# Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Possible to the Recycling (Salesy) Regulations (010)

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| $\triangle$   | Reference/Record  | Number:   |   | • •  |
|---|---|---|---|--|
| <u>∠</u>  | Nationwired green   |   |   |  |
| Issuer (Inspector   | ) details:  |   |   |  |
| Name of hispector:  | Gavin Bodey   |   | Registration #                                  | 1250728  |
| Email Address:  | gavin@bodayspark.   | co.nz   | Telephone:                                      | 021 428 820  |
| Location of Insta   | lletion;  |   |   |  |
| Location details.   | Greenhi I park subd   | vision, Area M. Streetlight 1   | 13 slage 9-15                                   |  |
| Location Type   | Domestic  | Non Correstic Accommod  | ation [   | Incustrial Commerc   |
|   | Educational   | ☐ Healthcare  | <b>Ŀ</b>  | Misce Janeous (other)  |
| Certifying Electri  | col Work and Certifica  | te of Compilance (CoC) detail   | 5;  |  |
| Name of Electrical  | Yell Martyn   |   | Registration #:                                 | E257490  |
| worker(s)   |   | ;   |   | EW121000   |
| CoC details:  | Nationwired 15796 Str   | ceright 113   |   | Cof (s) accached   |
|   |   |   |   |  |
| Specify the regularly<br>AS/NZS2000 part 2<br>What are the result<br>Botthing and booster<br>poler by | s of the Inspection   | Nard(s), or identify the certified o  | design, followed wher                           | Carrying out the inspection                                      |
| M.E.O. imp < 5.0 hr<br>M.E.N. link :  | n<br>HRPA #3069377  | 4458  |   |  |
|   |   |   |   |  |
| High Risk Catego  |   | '   |   | (=1  |
| High voltage insta  | 000 Part 2 = GM(2)(g)(j)<br>Hation = 6A(2)(g)(ji)<br>eration = <del>6</del> A(2)(g)(ji)<br>swite. | Photovoltak system – 6A(2)() Hozardous area – 6A(2)()()() Animal stunning or meat con       |   | ☐ Effectival medical area = 64(2)(a))<br>☑ Mains work = 64(2)(c) |
| Declaration   |   |   |   |  |
| Inesety continuitha   | if the work described abi<br>If the work has been don   | ove has been done <i>in / pathe</i> au<br>re is, and <i>in/i be / <u>por Pa</u>,</i> when i | cordance with the re<br>eal venec, electrically | rgulations; and the <del>includering</del> / 90/r<br>visale      |
|   |   | ords highlighted in (4d Ahave )   |   | r  |
| Signature:  |   | ··  | ם   | ate:   0/03/21   |
| M201.30 GI/17   | プー - "  | $\overline{\mathcal{I}}$  |   |  |



# Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Persuant to Gar Find Hesty (Sofery) Segulations 2000)

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MB141.32 04/17

| A   | Reference/Reco                                   | rd Number   |   |  |             |
|---|--|---|---|--|-------------|
| $\angle \Diamond \rangle$                     | Nationwired gre                                  |   |   |  |             |
| Issuet (Inspector                             |  |   |   |  |             |
| Name of Inspector                             |  | <u></u>   | Registration #                              | :250728  |             |
| Emai! Address                                 | gavin@bcdeyspar                                  | rk co.nz  | Telephone:                                  | 021 426 820                                    |             |
| Location of Insta                             | illetion:  |   | ·   |  |             |
| Location details:                             |  | ndrvision, Area M. Streetlig  | ht 114 stace 9.15                           |  |             |
| Location Type:                                | Domestic   | : Nan-Domestic Accoun   | •   | ndustral                                       | Commercia   |
|   | [] [ducationa.                                   | : Healthcare  |   | Mistellaneous (other)                          | _           |
| Certifying Electri                            | tcal Work and CerUfi                             | cate of Compliance (CoC) de   | etails:                                     |  |             |
| Name of Electrical<br>worker(s)               | Yeli Mariyn                                      |   | Registration #:                             | E257490  |             |
|   |  |   |   | EW121000                                       |             |
| CoC details:                                  | Nationwired 16797 (                              | Streatight 114  |   | CoC(s) attached                                |             |
|   |  |   | <u> </u>                                    |  |             |
| Cartifying Electri                            | ical Work and CoC de                             | etaļts;   |   |  |             |
| System. Bonding of                            | Pole and cabinet doo                             | E N. toers, New Mein Neusral<br>r.  | real aria carea ( protection                | s, Maw Main Electring                          |             |
|   |  |   |   |  |             |
|   |  | tandard(s), or  dengrity the cert   |   | carrying our the inspect                       | lork        |
| AS/NZS30(4) part 2                            | :  |   |   |  |             |
|   |  |   |   |  |             |
|   |  |   |   |  |             |
| What are the result<br>Earthing and bondin    | ts of the inspection:<br>ng visual ok,           |   |   |  |             |
| pclarity <sup>™</sup><br>M.F.C. impl<,5 Ohr   |  |   |   |  |             |
| M.E.N. nk                                     | HRPA #00593                                      | 7 <b>5</b> X45  |   |  |             |
|   |  |   |   |  |             |
| High Risk Catego                              | •  |   |   |  |             |
|   | 800 Part 2 = 6A(2)(6)(i)<br>Bation = 6A(2)(6)(i) | Priotovoltaic system = $6$ :<br>Hexarcous area = $8A(2)$ (                          |   | Sleetings, medical at<br>√! Malus work = 64(2) |             |
| _   | cration = 6A(2)(A)(ii)                           | Animal stumping or ment   |   | (# ) Mains Water — 04(4)                       | 1,47        |
| Other - please ces                            | scribe:  |   |   |  |             |
| Declaration                                   |  |   |   |  |             |
| l hereby adofirm tha<br>vistaliation or which | it the work described a<br>hithe work has been d | iSove has upon itong to / <u>agric</u><br>one is, and will be / <u>agric ba</u> int | eaccordance with the region on interest and | Jacours; and the <del>brace</del><br>safe      | harten/part |
|   |  | one's highlighteoin redebor   |   | 241 <del>1</del>                               |             |
| Signature:                                    |  | -   |   | (a. 10.02/51                                   |             |



# Recurd of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Poissons to the Sistericity (spisoy) segulations 2010)

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|  | Reference/Record  | Number:   |   |                         |                                 |                          |
|--|---|---|---|-------------------------|---------------------------------|--------------------------|
| <u> </u>   | Nationwied green  | ħ II  |   |                         |                                 |                          |
| Issuet (Inspector)   | details   |   |   |                         |                                 |                          |
| Name of Inspector  | Gavin Recey   |   |   | Registration #:         | 1250728                         | :                        |
| Final, Address   | gavin@bodeyspark  | .co.nz  |   | Telephone.              | 021 <b>42</b> 8 820             |                          |
| Location of Instal   | llation:  |   |   |                         |                                 |                          |
| Location details:  | Greenhill park subd                                       | ivision, Area M, Stree  | alight 107s                             | lage 9-15               |                                 |                          |
| Location Type:   | Domestic  | Non-Correstic Ac  | commenstica                             | E L                     | elastral                        | Commercial               |
|  | falcostional  | Healthcare  |   | <b>∠</b>                | discellaneous (ather)           |                          |
| Certifying Rectri  | cal Work and Certifica                                    | te of Conspliance (CoC  | ] detalls:                              |                         |                                 |                          |
| Name of Herrical worker(s):  | Yeti Martyn   |   | -                                       | Registration #:         | E257490                         | :                        |
| 172111 425   |   |   |   |                         | EW121000                        | :                        |
| CoC details:   | Nationwired 15791 Sil                                     | reellight 107   |   | :                       | CoC(s) attach                   | ਜ਼                       |
|  |   |   |   | i                       |                                 |                          |
| Certifying Electric  | cpl Work and Co€ det                                      | alls:   |   |                         |                                 |                          |
| What was maperited   |   |   |   |                         |                                 |                          |
| New installation, Ne   | w Streetlight with <b>44</b> .은.<br>Pale and cabinet door | N. board - New Main Net   | vira: bar en                            | d Grouif protection     | . New Main Camhing              | 3                        |
|  | en(s) and comparron ste                                   | <br>iidard(s), or identify the o                                  | <br>ertified desig                      | gn, followed when :     |                                 | ct'en:                   |
| What are the result<br>Earthing and bandin<br>polarity<br>M.E.C. implie.6 Ohr<br>M.E.N. link | ng visual ok.   | 9B7H  |   |                         |                                 | <del>_</del>             |
|  |   |   |   |                         |                                 | <u> </u>                 |
| High Risk Categor  |   |   |   |                         |                                 |                          |
|  | GC Part 2 · · 6A(2)(a)()<br>lation = 6A(2)(a)(ii)         | Photovoltaki system   |   | :                       | Hertotral myotica               |                          |
| 12   | ration = 5A(2)(2)(ii)                                     | — Harannous area — ()&<br>— Autimal stunnung or (                 |   | mine = 64 '20ic)        | ✓ Mars work 64                  | (A)(b)                   |
| Other - please des   |   |   |   | 6 - 04 /2 //ci          |                                 |                          |
| Declaration  |   |   |   |                         |                                 | I                        |
| Thereby confirm that   | I the work described ab                                   | ovo has been dono <i>in læ</i><br>wis and will be / <u>ant be</u> | e <del>t ist</del> an nok<br>Sugar arla | lance with the neg      | olations: and the <del>mo</del> | <del>- Чашад</del> /рагі |
|  |   | onds nightlighted in red i  |   | initial discretifically | anv.                            |                          |
| Signature  |   |   |   | Dat                     | e 19/03/21                      |                          |
| M9141.72 04/17   | 7   |   |   |                         |                                 |                          |



# Record of Inspection (RO:) of High-Risk Prescribed Electrical Work

(Puzzerant to the Recording (Salety) Regulations 2016)

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|  | Roference/Record                                   | Number:                         |                                |                                       |  |                       |
|--|--|---------------------------------|--------------------------------|---------------------------------------|--|-----------------------|
| $\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | Nationwised green                                  |                                 |                                |                                       |  |                       |
| ksuer [Inspector]  | detalls:   |                                 |                                |                                       |  |                       |
| Name of Inspector.   | Cavin Bodey  |                                 | RAS                            | ystration #:                          | 1250728  |                       |
| Emeil Address  | gavin@bodeyspark                                   | 00.nz                           | Teli                           | ephone:                               | 021 428 820                                    |                       |
| Location of Instal   | lletjan:   |                                 | •                              |                                       |  |                       |
| Location data Is:  | Greenhill park subd                                | vislon, Area M., Streetli       | gnt 43 stage                   | 9-15                                  |  |                       |
| Location Type:   | Domestic   | Non-Domestic Accor              |                                | _                                     | śrinia ś                                       | Commercial            |
|  | Fducational  | healthcare                      |                                | <b>∑</b> ] и                          | sce.knebus (other)                             |                       |
| Certifying Electric  | cal Work and Certifica                             | to of Compilance (CoC)          | details:                       |                                       |  |                       |
| Native of Blectrical worker(s);                                    | Yeti Martyn  |                                 | Над                            | rstration <b>₹</b> :                  | ₹257490  |                       |
| 1722 07 17.7%  |  | <del></del>                     |                                |                                       | EW121000                                       |                       |
| CoC details:   | Nationwired 19838                                  |                                 |                                |                                       | ; CoC(s) attacle                               | ed.                   |
|  |  |                                 |                                | i                                     |  |                       |
| Certifying Electric  | cef Work and CoC det                               | iis:                            |                                |                                       |  |                       |
| What was inspected   | 4  |                                 |                                |                                       |  |                       |
| New Installation, Ne   | ew Streptlight with M E I                          | N. board, <i>New Main</i> Neutr | ومن وموائها لغ                 | aud protection.                       | New Vain Earthing                              | ı                     |
| pyskanes in a s.   | Pole and cabinel door                              |                                 |                                |                                       |  |                       |
|  |  |                                 |                                |                                       |  |                       |
|  |  |                                 |                                |                                       |  |                       |
| Specify the regulation   | on(s) and companion star                           | ndantijs), or identify the cert |                                | ewad when ra                          | cryong out the insc-                           | <br>                  |
| AS/N7\$3000 per; 2   |  | .,                              |                                |                                       | -1)G1 (1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4 |                       |
|  |  |                                 |                                |                                       |  |                       |
|  |  |                                 |                                |                                       |  |                       |
|  |  |                                 |                                |                                       |  |                       |
| What are the result  | S of the inspection                                |                                 |                                |                                       |  |                       |
| Rathing and consin   | ig visual ok,                                      |                                 |                                |                                       |  |                       |
| palenty<br>MRC impk5Ohn  | 1  |                                 |                                |                                       |  |                       |
| M.E.N. link  | HRPA ¥0053343                                      | 3J4S                            |                                |                                       |  |                       |
|  | <del></del> <del></del>                            |                                 |                                |                                       |  |                       |
| Migh Risk Categor  | ry:  |                                 |                                |                                       |  |                       |
| Note AS/NZS 30   | 00 Part 7 – ริก(2)ใช้ผู้ให้                        | Photovottak system =            | EM(ZVal)(v)                    |                                       | Enctropal preside                              | l area – 5A(2)/g/(v/- |
| High voltage install   | attor = (A/2)(a)(a)                                | Hazardous area - ((A))          |                                |                                       | 7 Manswork 64                                  | -                     |
| Mains parailel gens  | sation – SA(2)(a)(d)                               | Animal stomning or the          | at conditioning                | - 5A(2[7]                             | _  |                       |
| Cther please des   | crb÷   | ·                               |                                |                                       |  |                       |
| Declaration  |  |                                 |                                |                                       |  |                       |
| Thereby confirm that   | tithe work described also<br>the work has been don | ove has been done in /          | —⊾accerdance<br>vhen entivens: | e with the regular<br>coeptings by sa | ations; and the <del>bree</del>                | elistica (port        |
|  |  | ords highlighted in red abs     |                                | -, -,, , , , , , , , , , , , , , , ,  |  |                       |
| Signature  | -//-//   |                                 |                                | Date                                  | 10/03/21                                       |                       |
| تتنا سمند  |  | —··                             |                                |                                       |  |                       |
| MB-4131 04719  | /  | /                               |                                |                                       |  |                       |



# leard of inspection (ROI) of High-Risk Prescribed Electrical Work

(Pursuant to the Sensibly (Safery) Regulations 2010)

| $\sim$ | ŀ |
|--------|---|

|  | Reference/Record Number:  |                       |   |
|--|---|-----------------------|---|
| <u> </u>   | Nationwired greenful:   |                       |   |
| Issuer [Inspector]   | dotails:  |                       |   |
| Name of Inspector.   | Gavin Bodey   | Registration #        | 1250/28   |
| Email Address:   | gavin@bodcyspark.co.nz  | lelephone:            | C21 428 820   |
| Location of Insta  | lation:   |                       |   |
| Location details:  | Greenhill park subdivision, Area M, Streetight 320  | stage 9-15            |   |
| Location Typo.   |   |                       | Industrial [] Commercel Miscellaneous (ather)   |
| Certifying Electri   | cal Work and Certificate of Compliance [CoC) details;   |                       |   |
| Name of Electrical<br>worker(s):<br>CoC details:                                     | Yeti Martyn Nationwred 15839  | K∙gistration #        | E257490<br>EW121000<br>CoC(s) attached  |
| Specify the regulate AS/NZS3000 part 2   | on(s) and companion standard(s), or identify the certified desig  | <br>ga, fallowed when | n carrying out the inspection   |
| What are the result<br>Earthing and concir<br>polarity<br>MEO cop < 5 Ohn<br>MEN ink | ng visual ok,   |                       |   |
| High Risk Catego   |   |                       |   |
| Not to AS/NZS 30   | OD Part $2 - SA(Z)[a](i)$   Photovoltaic system $- SA(Z)[a](i)$   Hazardous area   $GA(Z)[a](i)$   Animal struming or most condition  |                       | ☐ Exclicat medical area - GA(Z)(a)(vi)  ✓ Mains work - GA(Z)(b)                           |
| Declaration  |   |                       |   |
| iostatia/log on whe  | tithe work described above has been done in / a-th-accerding to work has been done is, and will be / act he, when only laterative majorals abjust or ds bightight ext to majorals.) | vanad, electrically   | gulatiums; and the <del>installing of pays</del><br>y safe<br><sup>later</sup> = 0/03/2 ) |



# Record of Inspection (ROF) of High-Risk Prescribed Electrical Work

(Porsuarable the electricity (Sefety) Regionalons 2018)



| 767   | Reference/Record N  | lupabur:  |  |   |
|---|---|---|--|---|
|   | Nationwired greenhi   | <u> </u>  |  |   |
| Issuer (Inspector)  | detalls   |   |  |   |
| Name of Inspector:  | Gavin Boddy   |   | Registration #                         | 1250728   |
| Email Address:  | gavin@bodeyspark.co   | o.nz  | Telephone:                             | 021 428 820   |
| Location of Insta   | llation <del>:</del>  |   |  |   |
| Location details:   | Greenhi I park subdivi  | sion, Area M., Streetlight1Ç8   | stage 9-15                             |   |
| Location Type:  | ] Dozrestk  | Non-Domestic Accommodation  | _                                      | klastřel 🔲 Commercial   |
|   | [ducational   | Feathcare   | <u>.</u> •                             | riscellanencis (pthor)  |
| Certifying Electri  | cal Work and Certificate  | of Compliance (CoC) details:  |  |   |
| Name of Electrical  | Yeti Martyn   | •   | Registration #                         | E257490   |
| worker(s):  |   |   |  | EW121000  |
| CoC details.  | Nationwired 158310  |   | :                                      | CoC(s) attached   |
|   |   |   | i                                      | _   |
| Certifying Electri  | cal Work and CoC detail:  | S;  |  |   |
| Capanan radinoring or   | Pole and cabinet door   |   |  |   |
| Specify the regulati<br>AS/NZS 3000 part 2  |   | ard(s), or identify the certified des   | ign, followed when o                   | arrying out the inspection  |
| A\$/NZ\$3000 part 2   |   | ard(s), or identify the certified des   | ign, followed when a                   | arrying out the inspection  |
| A\$/NZ\$3000 part 2   | is of the inspections<br>ng visual bix.   |   | ign, followed when e                   | arrying out the inspection  |
| What are the result<br>Farthing and bond!<br>polectly<br>M.F.O., imp < 5 Ohr  | s of the inspecsions<br>ng visual ax.<br>n<br>ERPA V00592560  |   | ign, followed when e                   | arrying out the inspection  |
| What am the result Farthing and bond; polacity M.F.D., imp < 5 Ohr M.E.N. lins  High Risk Catego  Vet to A VN23 40 High voltage insta   | is of the inspersion: ng visual bis.  IERPA V0059056B  Fy:  EXC Part 2 = 6A(2)(a)(b)  Halton = 6A(2)(a)(b)  |   | ······································ | Exercise the inspection  Light the inspection  Exercise the inspection |
| What am the result Farthing and bonds polarity M.E.N. lims  High Risk Cotogo Net to A Viv25 At eligh voltage insta  | is of the inspersion: ng visual bis.  IERPA V0059056B  Fy:  EXC Part 2 = 6A(2)(a)(b)  Halton = 6A(2)(a)(b)  | 7T<br>Pharewallaic system - 6A/2/(a)/<br>Hazaronus area - 64/2/(a)(v)                                       | ······································ | třectrica (wedica) arek – 6M/2(Jajív)   |
| What am the result Farthing and bonds polarity M.F.D. imp < 5 Ohr M.E.N. link.  High Risk Cetego  Yetho A Vrv25 Au High voltage insta Mains parallel gen Citien in pease de  Declaration Cheroby confirm (as              | is of the inspection: ng visual bit.  THERA VIOUS (1955) SIGN  EXCHART A = 150/2](a 6)  Halton = 50/2](a 6)  So he  It the work described each                                      | 7T  Phorowallaic system - 6A/2/3// Hazarabus assa - 6A/2/(a)(a) Animal sturning or mast condit              | ioning $= SA(7/\xi)$                   | třectrica (wedica) arek – 6 <b>N/2)(a)(v)</b><br><b>√</b> : Mains work – 6 <b>N/2)(b)</b><br>μ.atrons, and the <del>πολωβορίου</del> / μ.σ. :   |
| What are the result Earthing and bonds polacity M.F.O., imp < 5 Ohr M.E.N. link.  High Risk Cotogo  Not to ASN 25 Au High voltage install Mains parallel generation Declaration Uneroby confirm (as as tallation on which | is of the inspersions ng visual bis.  THERPA V0058056B  (SY)  EXIT A = 6A(A)(a)(b)  Halton = 6A(A)(a)(b)  exists = 6A(A)(a)(b)  the work described eacy  If the work described eacy | 7丁<br>□ Pharowallaic system - 6A(2(な))<br>□ Hazarsbus assa = 6A(2(a)(a)<br>□ Animal sturning or mast condit | ioning $= SA(7/\xi)$                   | tfectrica (wedical eres = 6 <b>½</b> ( <b>)</b> ( <b>a</b> )( <b>v</b> )<br><b>√</b> : Mains work = 6 <b>½</b> ( <b>y</b> ( <b>t</b> ))<br><b>u</b> .atrons, and the <del>makel</del> ( <b>1</b> ( <b>i</b> )( <b>a</b> )) / <b>y a t</b> :   |



# Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Forestries to the Recordity (Safety) Regressions 2010)

| _                                      |  |
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| $\sim$                                 |  |
| <i></i>                                |  |
| 11. A                                  |  |
| $\mathcal{F}(\mathcal{V}, \mathbf{X})$ |  |
| <i>7</i> (*/ <b>1</b>                  |  |
|  |  |

|  | Reference/Record         | Number:  |                                 |  |                           |
|--|--------------------------|--|---------------------------------|--|---------------------------|
| <u>رسي</u>   | Nationwired green        | ntill  |                                 |  |                           |
| issuer (inspector)   | detalls:                 | •  |                                 |  |                           |
| Name of Inspector:   | Gavin Bodey              |  | · Registration #:               | 250728                                       |                           |
| Email Address:   | gavin@bodeyspark         | 00.02  | Telephone.                      | 021 428 820                                  |                           |
| Location of Instal   | llation:                 |  |                                 |  |                           |
| Location details:  | Greenhiil park subd      | I vision "Area M., Streetlight   | 121 stage 9-15                  |  |                           |
| Location Type  | Domestk                  | Non-Comestic Accommo   |                                 | Industrial<br>  Maxellaneous (other)         | Commerci                  |
| Certifying Electri   | cal Work and Certifice   | ite of Compliance (CoC) deta   |                                 |  |                           |
| Name of Electrical worker(s):  | Yefi Martyn              |  | Registration #-                 | 6257490<br>EW121000                          |                           |
| CoC details:   | Nationwied 157913        | Streellight 121  | -                               | CoC(s) attach                                | ed                        |
| Specify the regulator AS/NZS 2000 part 2                               | ····                     | ndard(s), or idensify the certified  | design, foxoved whe             | a carrying out the Inspe                     | ection:                   |
| Earthing and broad o<br>solarity<br>M.E.G. imp < \$.Ohm<br>M.E.N. link | ig v sue: ok,            | 9Y/ <b>Y</b>   |                                 |  |                           |
| High Sisk Category   |                          |  |                                 |  | ·                         |
| 🔝 High sollage install   |                          | Photovoliaid system = FA(2) Harardous area = FA(2)(n)(v Animal studying or meal co               |                                 | ☐ Rentrical medica ☑ Meins work – 6a         |                           |
| Declaration  |                          |  |                                 |  |                           |
| her <b>eb</b> y Conlight that<br>ostaliation on which                  | i the work has been do.  | ove has been done <i>in / <u>aac</u>-a_</i> a<br>re is, and <i>rul! be / <u>not be</u>,</i> when | cordance with the signification | egilations and the <del>are</del><br>y sale. | <del>(olleroo</del> /pari |
| Mote Stakebot und<br>eignature:  | eleta file vicor icabica | ronds highleghted in redizionel).  | 1 3                             | <sup>late:</sup> 10/03/21                    |                           |
| Ma: 1.72 04/17   | <del></del>              |  |                                 | recognic (                                   |                           |



# . – n Recard of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Pur sevent to this Electricity (Sefety) Regulations (0010)

| 1 () |
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|   | Reference/Record N   | lumber:  |                     |  |
|---|--|--|---------------------|--|
| <u> </u>  | Natonwirod greenh  | II   |                     |  |
| (ssuar (inspector)  | detalls:   |  |                     |  |
| Name of Inspector:  | Gavin Bodey  |  | Registration #:     | 1250728  |
| āmail Address:  | gevin@bcdeyapark.c   | p.nz   | Telephone           | G21 429 820                                      |
| Location of Enstal  | list on:   |  |                     | -  |
| Location details.   | Greenhill park subdiv  | sion, Area M, Streetlight 122  | stage 9-15          |  |
| Location Type   | Domesic  | Acr Dames in Acrom modation  |                     | Polistrial Commercia.                            |
|   | Educational  | Heat Were  | =                   | 1scellareous (albrr)                             |
| Cortifying Electric   | cal Work and Certificate   | of Compliance (CoC) details:   |                     |  |
| Name of Electrical worker[s]  | Yell Marlyn  |  | Registration #      | E257490  |
| ADIKE (4)   |  | · · · · · · · j  |                     | EVV121000  |
| Co/L details:   | Nationwired 157914 St  | entlight 122   |                     | CeC(s) attached                                  |
|   |  |  |                     |  |
| Certifying Electric What was inspected  | cal Work and CoC detail  | <u></u>  |                     |  |
| New Installation, Na<br>System Bonding of   | w Streetlight with MIE N<br>Pole and cabinet door.   | bioard Now Main Neutral par an   | d arcu1 protection  | i, New Main Earthing                             |
| Specify the regulate<br>AS/NZS3000 part 2   |  | lard(s), or identify the certified desi  | ga, followed when c | alsying out the inspection:                      |
| What are the result<br>Earthing and Concin<br>polarity<br>MIRIC Implies Ohn<br>MIRIN, 11k | ng visual ok   | °C   |                     |  |
| High Risk Categor   | rys  |  |                     |  |
| Not to A5/N/S 3()   | 00 Post 3   6A(2 <b>)(a)(i)</b><br>Jation   •SA( <b>2)(a)(i</b> i)<br>elation   •SA( <b>2</b> )(A)(ii) | Photovotraic system = SA(7)(A)(iv<br>  Hazardous area = 6A(2)(a)(v)<br>  Animal stumping or meet condition | •                   |  |
| Declaration   |  |  |                     |  |
| Thereby confirm the   | t the work described above the work has been done  | e has been durie <i>in / perso</i> nt con<br>is, and <i>will be / and b</i> a, when onl                    | dance with the reg  | ulations, and the <del>mate "large of</del> part |
|   |  | ris, and war de r <u>am us</u> t, which this<br>ads high light ed in cedabloss.)                           | sauro, e ar dicisiy | 1012-  |
| Signatures  |  |  | Dat                 | ° 10/05/21                                       |



# Record of inspection (ROI) of High-Risk Prescribed Electrical Work

IPursuant to the Siccortocy (Safety) Regulations 2010)

| $\triangle$                             | Date and Bound                                      | lucal con                                 |                        |                                   |                       |
|---|---|---|------------------------|-----------------------------------|-----------------------|
|   | Reference/Record N                                  |   |                        |                                   |                       |
| ريي                                     | Nationwied greenh                                   | ill                                       |                        |                                   |                       |
| _lssucr (Inspector)                     | detalls:  |   |                        |                                   |                       |
| Name of Inspector:                      | Gavin Bodey   |   | Registration #:        | 1260728                           | :                     |
| Email Address:                          | çavin@bodeyspark.c                                  | orz                                       | Telephone:             | 021 428 820                       | :                     |
| Location of Instal                      | lation:   |   |                        |                                   |                       |
| Location details                        | Greenhi ipark subdiv                                | ision, Area M. Streetligh) 11             | 15 stage 9-15          |                                   |                       |
| Location Type                           | Durnestic   | E Nun-Domestic Accommoda                  | <u> </u>               | Industria                         | Constetual            |
|   | [ducational   | - Hookbeare                               | <b>∑</b>               | Miscelaneous (other)              |                       |
| Certifying Electri                      | cal Work and Certificate                            | ol Compliance (CoC) dotails               | 4                      |                                   |                       |
| Name of Blectrical                      | Yeë Martyn  |   | Registration #:        | E257490                           |                       |
| worker(s)                               |   |   |                        | EW121000                          |                       |
| CoC details.                            | Nation wired 15798 Stre                             | etlight 115                               |                        | CoC(s) attach                     | ಆರ                    |
|   |   |   |                        |                                   |                       |
| Cartifying Electri                      | cal Work and CoC detail                             | ls;                                       |                        |                                   |                       |
| What was inspected                      |   |   |                        |                                   |                       |
| Ne∌ Tstallenon, Ne<br>System Banding of | ew Streetlight with M.C.N.<br>Pole and capinet door | board, New Main Neutralibar               | and drout protect o    | n, New Main Ea thn                | ā .                   |
| , <u>-</u> ,                            |   |   |                        |                                   |                       |
|   |   |   |                        |                                   | :                     |
| handle the sequinal                     |   |   |                        |                                   | :                     |
| AS/NZS3000 part 2                       |   | lard(s), or identify the certified d      | iasign, tollowed veten | Carrying out The hispe            | ection.               |
|   |   |   |                        |                                   |                       |
|   |   |   |                        |                                   |                       |
|   |   |   |                        |                                   | :                     |
| What are the result                     | s of the Inspection                                 |   |                        |                                   |                       |
| Farthing and bonda                      | ig visuel ok,                                       |   |                        |                                   | :                     |
| polar ly<br>M 6 C imple,5 Onn           | n   |   |                        |                                   | :                     |
| M.E.N. link                             | HRPA #00593768                                      | ?4X                                       |                        |                                   |                       |
|   |   |   |                        |                                   |                       |
| High Risk Cotogor                       | ry:   |   |                        |                                   |                       |
| ☐ Notice AS/N75 30                      | 00 Bart 2 = 6A(2)(a(t))                             | Photovoltak system – 6A(2)ý               | ्र<br>इतिहास           | Feetnal media                     | al area = GA(2)(a)(e) |
|   | .at on _£A(2)(c)                                    | Hazardor Kistea – 6A(£)(a)(c)             |                        | <b>▼</b> Moins wo≪ 04             |                       |
| 💹 Marris paratoligeno                   | eration = 5A(2)(i)(ii)                              | Animal shinning or meat care              | delarung = 64 (Z) (c)  |                                   |                       |
| Uniter- possestes                       | arte  |   |                        |                                   | •                     |
| Doclaration                             |   |   |                        |                                   |                       |
| Declaration Theory (refirm the          | the work described abo                              | ve !!as pean done <i>ii: / pae-a</i> pico | ordande with the ce    | gulations; and the <del>etc</del> |                       |
| esstaffation on which                   | ) 160 work has been dong                            | ris, and wall be / <u>wat be</u> , when o | mivened, electrically  | y safe.                           | •                     |
|   | lotern the image beat blacks                        | rdstrightightind (a red above)            | I -                    |                                   |                       |
| 2jKustrua.                              |   |   | =:                     | <sup>eter</sup> 10/03/21          |                       |



# . — "Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

| _  |   |  | (Pursion) to the         | Becomicity (Sefety) (e)                      | gu <sup>r</sup> ations 20 |
|--|---|--|--------------------------|--|---------------------------|
| $\triangle$  | Reference/Record I  | Number:  |                          |  |                           |
| $\sim$   | Nationwired greath  |  | T                        |  |                           |
| Issuer (Inspector)   | detrēls   |  | '                        |  |                           |
| Name of Inspector  | Gavin Bodey   |  | Registration #           | 1250728                                      |                           |
| Highel Address:  | gavin@bodeyspark.d  |  | Telephone:               | 021 428 820                                  |                           |
| Edication of Instal  | llation:  |  |                          |  |                           |
| Location details:  | Greenhill park subdiv   | rsion. Area M, Streetligh  | t 1 16 stage 9-15        |  |                           |
| Eccation Type:   | :Xamestir:  | Non-Comestic Accomm  | _                        | ndustrial F                                  | <br>Commercial            |
|  | Situational   | Heathcare  |                          | Miscellaneous (other)                        | _                         |
| Certifying Electri   | cel Work and Certificat   | e of Compliance (CoC) del  | alts;                    |  |                           |
| Name of Electocal worker(s):   | Yeti Martyn   |  | Registration #:          | £257490                                      |                           |
| WOLKEL(2):   | · · · · · · · · · · · · · · · · · · ·                                   |  | i                        | FW121000                                     |                           |
| Coff details:  | Nationwired 15799 Sire  | ellight 11¢  | •                        | CoC(s) strached                              |                           |
|  |   |  |                          | :  |                           |
| Certifying Electri   | cal Work and CoC detail   | ls:  |                          |  |                           |
|  |   | <br>dead(s), or identify the certific                                      | id sesign, followed when | nkarrying out the inspectio                  | ·                         |
| What are the result<br>Earthing and bondin<br>polarity<br>M.E.C., ind < 5 Ohr<br>M.E.N., ink | ng visual ak.   |  |                          |  | ··                        |
| Libely mining always   |   |  |                          |  |                           |
| Figh wodage ostal  | 60 Part 2 - SA(7)(/)()<br>lation - 6A(2)(p)(i)<br>rot on - 9A(2)(p)(ii) | Photovoltak system – 6A  Hozardous area – 6A(2)/a  Animal sturning or meat | (4)                      | ☐ Pecifical metikal an ☑ Mains work ~ 64(2)( |                           |
| Declaration  | ·   |  |                          |  |                           |
| Encreby confirm tha  | Litherwork described abo  | ve nos been done <i>ln / عند به</i>  | accurdance with the n    | rgulations; and the <del>more if</del>       | апод/рал                  |
|  |   | ris, and will be / <u>cat be</u> , whe<br>not highlighted in redictions    |                          | y safe                                       |                           |
| Signature.   | ~ ~~//·   |  | •                        | ) <sub>ate.</sub> 10/03/21                   |                           |
| MODELLES 04/17   | 7-1-  | <del></del>  |                          |  |                           |



# Record of Inspection (ROI) of High-Risk Prescribed Beatrical Work

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|  | Reference/Record  | Number:  |                    |                  |   |                |
|--|---|--|--------------------|------------------|---|----------------|
| ري   | Nationwired green   | nhil:  |                    |                  |   |                |
| Issuer (Inspector)   | details.  |  |                    |                  |   |                |
| Name of Inspector:   | Gavin Bodey   |  | Registra           | ition <b>⊄</b> : | 250728                                  |                |
| Email Addrass  | gavin@bodeyspark,   | ಹ ¥  | Telepho            | ne:              | 021 428 820                             |                |
| Location of Insta  | llation:  |  | •                  |                  |   |                |
| Location details   | Greenhill park subd   | ıvision, Area M, Sheetlig  |                    | 15               |   |                |
| Cocation Type:   | Corneste  | Non-Obmestic Accoun  | •                  | _                | dustral                                 | Commercial     |
|  | Éducational   | rlealthcare  |                    |                  | iscellaneous (other)                    |                |
| Certifying Electri   | cal Work and Certifica  | to of Compliance (CoC) d   | etalis:            |                  |   |                |
| Name of Electrical   | Yoti Martyn   |  | Registro           | sion#:           | F257490                                 |                |
| worker(s);   |   |  |                    |                  | EVV121000                               |                |
| CoC details  | Nationwined 15799 St  | eeliight 117   |                    | :                | CoC(s) attack                           | æd             |
| AS/NZS3000 part 2 What are the result                              | 9 of the inspection.  | edard(s), or identity the certi  | lied design, fokow | od when <        |   | ction:         |
| Carthing and bond a<br>polarity<br>M G C imp <.5 Onn<br>M.E.N link |   | iHaC   |                    |                  |   |                |
|  |   |  |                    |                  |   | ··             |
| High voltage instat  | GDPart 2 = 6A(2)(a)(1)<br>dation + 6A(2)(a)(i)<br>wation = 6A(2)(a)(ii) | Photovohaic system – 6 Haverdous area   66(2) Annia: storning or mes   | (a) (a)            | (č)(á            | Electrical medic                        |                |
| Dodaration   | •   |  |                    |                  |   |                |
| Thereby confirm that<br>Installation on which                      | h tha work has been dor   | ove has open done in / <b>pre-</b><br>re is, and will be / <u>applie</u> , w<br>ords highlighted in red abor | non onlivened, ele | ctrically's      | Jations; and the <del>fac</del><br>afe. | h-lletpa-/port |
| M311132 04717  | プ <u></u>   |  |                    |                  |   |                |



# Record of Inspection (KOI) of High-Risk Prescribed Electrical Work

(Pursuant to the Electricity (Safety) Legislations 2010)

| •    |
|------|
|      |
| IC A |
| ノリソハ |
| (    |

| A   | Refurence/Record Number:   |                        |                 |  |                                   |
|---|--|------------------------|-----------------|--|-----------------------------------|
| <u>₩</u>  | Nationwired greenhill  |                        |                 |  |                                   |
| Issuer (Inspector)  | details  |                        |                 |  |                                   |
| Name of Inspector:  | Gavin Bodey  | Registrațio            | ın#             | 1250728                                |                                   |
| Email Address   | gavin@bodeyspark.co.nz   | Telephone:             | :               | 021 428 820                            |                                   |
| Location of Instal  | llation:   |                        |                 |  |                                   |
| Location cetails  | Greenhill park aubdivision, Area M, Streetlight  | 113 slæge <b>0</b> -15 | 3               |  | :                                 |
| Cocation Type.  | ☐ Domestic ☐ Non-Domestic Accommo  | detion                 | E kick          | strel                                  | Commercial                        |
|   | [ Iducational Heathcare  |                        | <b>▼</b> . Miss | cellanegys (other)                     |                                   |
|   | cal Work and Certificate of Compliance (CoC) deta  |                        |                 |  |                                   |
| Name of Electrical<br>Worker(s)   | Yeli Martyn  | Registratio            | in #.           | E257490                                | i                                 |
| CoC details.  | N. F   | _                      |                 | EW121000                               | :                                 |
| COC Details.  | Nalkonwire:/ 157915_Streetlight 116  |                        |                 | CoC(s) attache                         | d                                 |
| System Bonding of   | ew Streetlight with M.E.M. board, New Main Neutral b<br>Pole and cabinat door<br>on(s) and companion standard(s), soldertify the certified |                        |                 |  |                                   |
| What are the result<br>Earthing and bonding<br>polarity<br>M.E.C., repicte Ohn<br>M.E.N., ink |  |                        |                 |  | <u></u> :                         |
| High Risk Catago  | ry:  |                        |                 |  |                                   |
| High voltage insta  | SUD Part $V = 0.0[2](a y)$   | d .                    | [<br> <br> (d)  | Elektrica irredica<br>Mains work – isA | . eroa = 6A(2)(p)(v)<br>2)(h)<br> |
| Declaration   |  |                        |                 |  |                                   |
|   | t the work described above has been done to / 20-20-20.<br>In the work has been done is, and wild be / <u>per tos,</u> when                |                        |                 |  | adation (part                     |
|   | deleter the mapping able grounds highlighted in red above.   |                        |                 |  |                                   |
| Signature   |  |                        | Date            | 10/00/21                               |                                   |



## Record of Inspection (ROI) of High-Risk Prescribed Electrical Work

(Presonant to the electricity (Safety) Regulations 2010).

| $\triangle$                    | Reference/Record                                 | I stored  | ···  |  |                    |
|--------------------------------|--|---|--|--|--------------------|
|                                | Nationwired gree                                 |   |  |  |                    |
| <u> </u>                       |  | ······································  |  |  |                    |
| issuer (inspector)             |  | •••   |  |  |                    |
| Name of Inspector              | Gavin Bodey                                      | <u></u>   | Registration #:  | 1250726  | <br>J              |
| Emai. Address                  | gavin@bodeyspark                                 | 1.00.NZ   | Telephone  | 021 42 <b>8</b> 820                            |                    |
| Location of Insta              | llation:   |   |  |  |                    |
| Location deta.ls;              | Greenfull park subc                              | livision, Area M, Streetk   | ght 119 stega 9-15                                     |  |                    |
| Location Type:                 | Domestic   | Non-Domestic Accor  |  | hicratria                                      | l<br>∐ Commercal   |
|                                | Houraubnel                                       | Sealthcare  | ₹.   | Misce laneous (other)                          | _                  |
| Certifying Electri             | cal Work and Certific                            | ate of Compliance (CoC) a   | otalls;  |  |                    |
| Name of Electrical worker(s)   | Yeli Martyn                                      |   | Registration #.  | E287490  |                    |
|                                | -  |   | $\neg$   | EW121000                                       |                    |
| CoC details:                   | Nationwhed 157912                                | Streedigh: 119  | -  | CoC(s) attached                                |                    |
|                                |  |   |  |  |                    |
| Certifying Electric            | cel Work and CoC det                             | ails:   |  |  |                    |
| What was inspected             |  | h haard Noorbeir bloom  |  |  |                    |
| System Bonding of              | Pole end cabinet door,                           | N. bdard, New Main Neutr  | B Da. Eug Glomifbleise                                 | n. New Main Earling                            |                    |
|                                |  |   |  |  |                    |
|                                |  |   |  |  |                    |
| Specify the regulation         | en(s) and companion ste                          | anderd(s), or identify the carr   | ifled design, followed when                            | carrying out the inspects                      | <br>on             |
| AS/NZ\$3000 part 2             |  | •   | •  | ,  |                    |
|                                |  |   |  |  |                    |
|                                |  |   |  |  |                    |
| What are the result            | s of the inspection                              | ······································  |  | · <del></del>                                  |                    |
| Earthing and bonding           |  |   |  |  |                    |
| palarily<br>M.E.C. impik.5 Ohr | 1  |   |  |  |                    |
| MEN link.                      | HHIPA #005838                                    | SXCN  |  |  |                    |
|                                |  |   | <u></u>  |  | <u> </u>           |
| High Risk Categor              |  |   |  |  |                    |
| (     Not to AS/NAS 30<br>     | CO Part 2 = 6A(2)(n)(1)<br>- mino :: 64/5VaVd    | :   Photovolta's system = 0   |  | i Sleutrical mydical ar                        |                    |
|                                | uation (6A/2)(a)(a)                              |   | የቀምን<br>9: coeditio ring – 6A(Z));                     | ₩ Mains work – 6A(2)                           | (b)                |
| Other please des               | Oibs:  |   |  |  | 1                  |
| Declaration                    | ·  |   |  |  |                    |
| thereby confirm that           | t the work described ab<br>otherwork has been do | ove has been done <i>in (19<del>44)</del><br/>ne is, and will be (<u>1942 be</u>, v.)</i> | www.arcurdance.withine.re<br>wen eativened inhotic adv | gulations, and the <del>excel</del> t<br>reals | <u>stion</u> /part |
|                                |  | rorol highlighten in red sto  |  |  |                    |
| Signature                      |  | -   | . D:   | itc: 10/03/21                                  |                    |

## Supplier's Declaration of Conformity (in accordance with ISO/IEC 17050-1)

2692777034128 Number:

Issuer's Name: Ibex International Ltd. PO BOX 9077 Greerton Issuer's Address:

> Tauranga 3142

Object of the Declaration: We declare that the items described are Electrically Safe as required in the

Electricity (Safety) Regulations 2010 Regulation 80.

MINI STORK 2500I M I FNS21 22W S-CAP 3000K BI ACK

The Object of the Declaration described above is in conformity with the requirements of the following documents:

Edition / Date of Issue **Document Number:** Title

AS/NZS 3820 Essential Safety Requirements For Electrical Equipment 2009/AMD 1

Additional information

Signed for and on Ibex International Ltd.

behalf of: Tauranga

Date: 4/03/2021

Kingsley Holt

Kingsley Holt Supply Chain & Innovation Manager

## F3.10 RAMM STREETLIGHT DATA

| (to be completed for each ch        | ange in streetlight type)                              |
|-------------------------------------|--|
| Subdivision and stage/Contract      | GREENHILL PARK ARBA M STAGE                            |
| Number of street lights of the type |  |
| General                             |  |
| Date Installed                      | 10/3/21  |
| Control Type                        | Network Streetlight Feed / Photocell / Other:          |
| Origin of Power Supply              | Streetlight Circuit / Metered Power Supply             |
| Light                               |  |
| Manufacturer                        | Vizuco   |
| Model                               | MINI STORK   |
| Total Power Consumption (W)         | 22.3W  |
| Light Height (m)                    | 6m   |
| Tilt Angle (* Degrees)              | 0°   |
| Outreach                            |  |
| Outreach Type                       | Curved / Mitre / Other Decorative MILFORD              |
| Outreach Distance (m)               | lm   |
| Pole                                |  |
| Manufacturer                        | BEX LIGHTING   |
| Туре                                | Octagonal (Circular) Power / Other Decorative: Topiced |
| Pole Height (m)                     | - 6m   |
| Material (                          | Galvanised Steel / Steel / Other                       |
| Coating                             | N/A (Painted) Powder Coated                            |
| Colour (if coated)                  | BLACK  |
| Mounting                            | Frangible ground plant / Shear Base                    |



□ Shown on as-built drawings.

## F3.10 RAMM STREETLIGHT DATA

| (to be completed for each ch                      | ange in streetlight type)                             |
|---|---|
| Subdivision and stage/Contract                    | GREENHILL PARK AREA M STAGE IS                        |
| Number of street lights of thi<br>type            | 3   |
| General   |   |
| Date Installed                                    | 10/3/21   |
| Control Type (                                    | Network Streetlight Feed / Photocell / Other:         |
| Origin of Power Supply                            | Streetlight Circuit Metered Power Supply              |
| Light   |   |
| Manufacturer                                      | Vizuco  |
| Model   | MINI STORK  |
| Total Power Consumption (W)                       | 13.5W   |
| Light Height (m)                                  | 6m  |
| Tilt Angle (* Degrees)                            | _0°   |
| Outreach  |   |
| Outreach Type                                     | Curved / Mitre / other Decorative Mu FORD             |
| Outreach Distance (m)                             | lm  |
| Pole  |   |
| Manufacturer                                      | IBEX LIGHTING   |
| Туре  | Octagonal Circula / Power / Other Decorative: Tapened |
| Pole Height (m)                                   | -Gm   |
| Material (  | Galvanised Steel / Steel / Other:                     |
| Coating   | N/A (Painted) Powder Coated                           |
| Colour (if coated)                                | BLACK   |
| Mounting  | Frangible ground plant)/ Shear Base                   |
| ☐ Manufacturer's Warrant ☐ Shown on as-built draw | y documents for Poles, Lights and Coatings attached   |

## **APPENDIX 8**

## **Miscellaneous Check Lists and Producer Statements**

- Subdivision Works Clearance Application Form
- Subdivision Certification Application Form
- Contractor Producer Statement Form
- Land Transfer Plan LT 548658
- Schedule of Engineering Value
- Developers Tax Invoice
- Consultant Certification Statement Form
- Asbuilt Statement Form



# **Subdivision Works Clearance Application Form**

| Agent details (where a  | n agent is applying on behalf of the consent holder)   |
|---|--|
| Agent name: Agent company: Postal address: Telephone:   |  |
| Email:  |  |
| Subject Site  |  |
| Site address: Legal description: Resource consent number: Stage (if applicable):  | Date consent issued:  No. of lots (excluding roads/reserves):  |
|   |  |
| Clearances required   |  |
| Clearances required:  | <ul> <li>☐ Engineering</li> <li>☐ Landscaping</li> <li>☐ Other (please specify)</li> </ul>   |
|   |  |
| Certification required:  Fees and payment  You will be charged for the table visits. Refer to Fees and  |  |
| Certification required:  Fees and payment  You will be charged for the table visits. Refer to Fees and  | Engineering Landscaping Other (please specify)  time spent by staff in preparing for and undertaking engineering works clearance Charges, as set out on our website at <a href="https://www.hamilton.govt.nz">www.hamilton.govt.nz</a> for costs.  |
| Fees and payment  You will be charged for the site visits. Refer to Fees and Payment of fees is due upor  Agent declaration  As a registered professional | Engineering Landscaping Other (please specify)  time spent by staff in preparing for and undertaking engineering works clearance Charges, as set out on our website at <a href="https://www.hamilton.govt.nz">www.hamilton.govt.nz</a> for costs. In invoice which will be issued at s224c subdivision certification stage.  |
| Fees and payment  You will be charged for the site visits. Refer to Fees and Payment of fees is due upor  Agent declaration  As a registered professional | Engineering Landscaping Other (please specify)  time spent by staff in preparing for and undertaking engineering works clearance Charges, as set out on our website at <a href="https://www.hamilton.govt.nz">www.hamilton.govt.nz</a> for costs.  In invoice which will be issued at s224c subdivision certification stage. |

## **Planning Guidance**



# **Subdivision Certification Application Form**

| Agent details (where an agent is applying on behalf of the consent holder)   |                       |                                       |  |  |
|--|-----------------------|---------------------------------------|--|--|
| Agent name:  |                       |                                       |  |  |
| Agent company:   |                       |                                       |  |  |
| Postal address:  |                       |                                       |  |  |
| Telephone:   |                       |                                       |  |  |
| Email:   |                       |                                       |  |  |
| Preferred means of contac  | t: Mail               | ○ Email ○ Phone                       |  |  |
| Consent holder nar   | ne                    |                                       |  |  |
| Consent holder name:   |                       |                                       |  |  |
| Postal address:  |                       |                                       |  |  |
| Telephone:   |                       |                                       |  |  |
| Email:   |                       |                                       |  |  |
|  |                       |                                       |  |  |
| _ 1 . 1  |                       |                                       |  |  |
| Debtor details (for in   | voicing)              |                                       |  |  |
| Debtor details (for in   | voicing)  Agent Owner | Other (please specify)                |  |  |
|  |                       | Other (please specify)                |  |  |
| Debtor is:   |                       | Other (please specify)                |  |  |
| Debtor is: Debtor's Name: Postal address:  |                       | Other (please specify)                |  |  |
| Debtor is:<br>Debtor's Name:   |                       | Other (please specify)                |  |  |
| Debtor is: Debtor's Name: Postal address:  |                       | Other (please specify)                |  |  |
| Debtor is: Debtor's Name: Postal address: Subject Site   |                       | Other (please specify)                |  |  |
| Debtor is: Debtor's Name: Postal address:  Subject Site Site address:  | Agent Owner           | Other (please specify)  Stage Number: |  |  |
| Debtor is: Debtor's Name: Postal address:  Subject Site  Site address: Legal description: Resource consent number: | Agent Owner           |                                       |  |  |
| Debtor is: Debtor's Name: Postal address:  Subject Site Site address: Legal description:                           | Agent Owner           |                                       |  |  |
| Debtor is: Debtor's Name: Postal address:  Subject Site  Site address: Legal description: Resource consent number: | Agent Owner           |                                       |  |  |

### Planning Guidance

## Condition(s) of consent requirements

As a registered professional surveyor/planner, I confirm that:

- 1. For larger/complex consents, I have attended a pre-application meeting with Hamilton City Council staff to review my draft s224c application.
- 2. I hereby attach all information required to satisfy Hamilton City Council that all conditions specified in the subdivision consent referenced above (in terms of certification required) have been met.
- 3. I accept that where it is found that not all information required under clause 2 above is provided, this application shall be returned to the address for re-lodgement.
- 4. Where an engineering or similar professionally prepared plan and supporting information (such as landscaping or ecological plan) has to be approved by council, I have attached written evidence of such approval.
- 5. Where evidence of completion and approval of all physical works is required (e.g. construction of services, landscape planting). I have attached written evidence of such approval.
- 6. The required Landonline electronic certification documentation have been prepared and submitted to Hamilton City Council for approval.

| Acceptance  I confirm that all of the above have been satisfied.  Name:   | Date: |
|---|-------|
|   |       |
| Send  |       |
| Send applications to <a href="mailto:subdivision@hcc.govt.nz">subdivision@hcc.govt.nz</a> , drop off via the duty planner Garden Place, between 8am – 4.45pm, Monday to Friday or post to <b>Plannin Hamilton City Council, Private Bag 3010, Hamilton 3240</b> . |       |
| Remember to attach:   |       |
| Conditions of subdivision consent documentation Works clearance certificate   |       |

# Send applications to <a href="mailto:subdivision@hcc.govt.nz">subdivision@hcc.govt.nz</a>, drop off via the duty planner at the Municipal Building Garden Place, between 8am — 4.45pm, Monday to Friday or post to Planning Guidance Subdivisions, Hamilton City Council, Private Bag 3010, Hamilton 3240. Documentation to provide: The attached checklist All required information listed in the checklist

| OFFICE USE ONLY | O Documentation saved to TRIM | Authority updated | Acknowledgement sent |
|-----------------|-------------------------------|-------------------|----------------------|



## Works Clearance Checklist

| PART A - QA DOCUMENTATION:                              |             |      |
|---|-------------|------|
| a. General  |             |      |
|   | Received    | Date |
| Easements required                                      |             |      |
| Consent notices required                                |             |      |
| Power, telecommunication, gas connections certification |             |      |
| Contractor Certificate                                  |             |      |
| Producer Statement                                      |             |      |
|   |             |      |
| b. Parks  |             |      |
| Landscaping Plans Accepted Date:                        |             |      |
|   |             |      |
|   | Approved by | Date |
| Final Inspection Checklist                              |             |      |
|   |             |      |
| c. Roading  |             |      |
| Engineering Plans Accepted Date:                        |             |      |
|   |             |      |
|   | Approved by | Date |
| Subgrade Compaction/Relative Height                     |             |      |
| Subbase Compaction/Relative Height                      |             |      |
| Basecourse Compaction/Relative Height                   |             |      |
| Penetrometer Results                                    |             |      |
| Clegg Hammer Results                                    |             |      |
| Benkelman Beam Results                                  |             |      |
| d Chamanatan  |             |      |
| d. Stormwater   |             |      |
| Engineering Plans Accepted Date:                        |             |      |
|   | Approved By | Date |
| Wetlands and Ponds Management Checklist                 |             |      |
| Wetlands and Ponds Inspection Checklist                 |             |      |
| Pipe Laying Checklist                                   |             |      |
| Manhole Checklist                                       |             |      |
| Trench Backfill Compaction Test                         |             |      |
| Catchpit Checklist                                      |             |      |
| Final Inspection Checklist                              |             |      |
| Stormwater device Operations and Maintenance Manual so  | upplied     |      |

## Planning Guidance

| e. Wastewater  Engineering Plans Accepted | Date: |             |      |
|---|-------|-------------|------|
|   |       | Approved By | Date |
| Pipe Laying Checklist                     |       |             |      |
| Manhole Checklist                         |       |             |      |
| Trench Backfill Compaction Test           |       |             |      |
| Final Inspection Pipe Network             |       |             |      |
| Pumping Station Check Forms               |       |             |      |
| Pressure Test Results                     |       |             |      |
|   |       |             |      |
| f. Water                                  |       |             |      |
| Engineering Plans Accepted                | Date: |             |      |
| Form/Process                              |       | Approved By | Date |
| Pipe Laying Checklist                     |       |             |      |
| Final Inspection Checklist                |       |             |      |
| Pressure Test Results                     |       |             |      |
| Bacteriological Test Results              |       |             |      |

## PART B - ASBUILT DATA:

## a. Roading

| Data             | Received | Checked |
|------------------|----------|---------|
| RAMM data        |          |         |
| Streetlight Data |          |         |
| Asbuilt Plans    |          |         |
| DXF Files        |          |         |

### b. Stormwater

| Data          | Received | Checked |
|---------------|----------|---------|
| Datasheets    |          |         |
| Asbuilt Plans |          |         |
| DXF Files     |          |         |

### c. Wastewater

| Data          | Received | Checked |
|---------------|----------|---------|
| Datasheets    |          |         |
| Asbuilt Plans |          |         |
| DXF Files     |          |         |

### d. Water

| Data          | Received | Checked |
|---------------|----------|---------|
| Datasheets    |          |         |
| Asbuilt Plans |          |         |
| DXF Files     |          |         |

## e. Parks

| Data          | Received | Checked |
|---------------|----------|---------|
| Datasheets    |          |         |
| Asbuilt Plans |          |         |
| DXF Files     |          |         |

## f. Finance

| Data             | Received | Checked |
|------------------|----------|---------|
| GST Values       |          |         |
| Land Values      |          |         |
| Asset Quantities |          |         |

## PART C – CONDITIONS/BONDS:

| Documentation                                 | Received | Checked |
|---|----------|---------|
| Engineering conditions attached and completed |          |         |
| Bond requested and quote attached             |          |         |

# SCHEDULE OF LAND AND ASSETS TO VEST IN COUNCIL

Hamilton City Council will use these values to record the assets once ownership has transferred following approval of s224c certification.

| GENERAL DETAILS   |  |
|---|--|
| Subdivision name:                                       |  |
| Site address:   |  |
| HCC application number:                                 |  |
| DPS number(s):  |  |
| Developer name:   |  |
| Postal address:   |  |
| Suburb:   |  |
| City: Postal code:                                      |  |
| This information is certified as being true and correct |  |
| Completed by: Land owner Agent Other (please specify)   |  |
| Name:   |  |
| Signature:Barry Pearson                                 |  |

## **SEND**

Email this to subdivision@hcc.govt.nz. Alternatively, if you are attending a works clearance pre-application meeting, please bring this completed form with you.

## SUMMARY OF LAND AND ASSETS TO VEST IN COUNCIL (excluding GST)

| ASSET TYPE            |     | COST/VALUE | REMOVE COUNCIL'S CONTRIBUTION | TOTAL VESTED |
|-----------------------|-----|------------|-------------------------------|--------------|
| Land                  | (A) |            |                               |              |
| Water supply          | (B) |            |                               |              |
| Wastewater            | (C) |            |                               |              |
| Stormwater            | (D) |            |                               |              |
| Roading               | (E) |            |                               |              |
| Parks                 | (F) |            |                               |              |
| Other                 | (G) |            |                               |              |
| TOTAL (excluding GST) |     |            |                               |              |





# SCHEDULE OF LAND AND ASSETS TO VEST IN COUNCIL

DPS

## LAND, WATER SUPPLY, WASTEWATER AND STORMWATER (All values are to be exclusive of GST)

**MEASURE (AREA M2)** 

|  | ,                 |            | CONTRIBUTION              |
|--|-------------------|------------|---------------------------|
| Roading  |                   |            |                           |
| Recreation reserve   |                   |            |                           |
| Local purpose reserve  |                   |            |                           |
| Other - please specify   |                   |            |                           |
|  |                   |            |                           |
|  | TOTAL             |            |                           |
|  | TOTAL VESTED      |            |                           |
|  |                   |            |                           |
| WATER SUPPLY (B)   | MEASURE           | COST/VALUE | COUNCIL'S CONTRIBUTION    |
| Mains  | Metres            |            |                           |
| Ridermains   | Metres            |            |                           |
| Services   | No.               |            |                           |
| Hydrants   | No.               |            |                           |
| Sluice and peat values   | No.               |            |                           |
| Other - please specify   |                   | •          | •                         |
|  |                   |            |                           |
|  | TOTAL             |            |                           |
|  | TOTAL VESTED      |            |                           |
|  |                   |            |                           |
| WASTEWATER (C)   | MEASURE           | COST/VALUE | COUNCIL'S<br>CONTRIBUTION |
| Mains  | Metres            |            |                           |
| Manholes   | No.               |            |                           |
| Connections  | No.               |            |                           |
| Other - please specify   |                   |            |                           |
|  |                   |            |                           |
|  | TOTAL             |            |                           |
|  | TOTAL VESTED      |            |                           |
|  | TO ME VESTED      |            |                           |
| STORMWATER (D)   | MEASURE           | COST/VALUE | COUNCIL'S<br>CONTRIBUTION |
| Mains  | Metres            |            | CONTRIBUTION              |
|  |                   | 1          |                           |
| Manholes   |                   |            |                           |
|  | No.               |            |                           |
| Connections  | No.<br>No.        |            |                           |
| Manholes Connections Outfalls (inlet/outlet structures) Wetland/rain garden planting | No.<br>No.<br>No. |            |                           |
| Connections<br>Outfalls (inlet/outlet structures)<br>Wetland/rain garden planting    | No.<br>No.        |            |                           |
| Connections  | No.<br>No.<br>No. |            |                           |
| Connections Outfalls (inlet/outlet structures) Wetland/rain garden planting          | No.<br>No.<br>No. |            |                           |



LAND (A)



COUNCIL'S CONTRIBUTION

COST/VALUE

# SCHEDULE OF LAND AND ASSETS TO VEST IN COUNCIL

## **ROADING, PARKS AND OTHER** (All values are to be exclusive of GST)

| ROADING (E)                           | MEASURE      | COST/VALUE | COUNCIL'S<br>CONTRIBUTION |
|---------------------------------------|--------------|------------|---------------------------|
| Pavement                              | Area (m²)    |            |                           |
| Surfacing                             | Area (m²)    |            |                           |
| Kerb and channel (full height)        | Metres       |            |                           |
| Berms                                 | Area (m²)    |            |                           |
| Footpaths (inc. walkways & cycleways) | Area (m²)    |            |                           |
| Vehicle crossings (excl. residential) | Area (m²)    |            |                           |
| Road drainage (catchpits & leads)     | No.          |            |                           |
| Street lighting                       | No.          |            |                           |
| Signage                               | No.          |            |                           |
| Subsoil drains                        | Metres       |            |                           |
| Tactile pavers                        | No.          |            |                           |
| Parking and bus bays                  | Area (m²)    |            |                           |
| Sundries (bridges/culverts/walls/etc) | No.          |            |                           |
| Other - please specify                |              |            |                           |
|                                       |              |            |                           |
|                                       | TOTAL        |            |                           |
|                                       | TOTAL VESTED |            |                           |
|                                       |              |            | COUNCING                  |

| PARKS (F)                   | MEASURE      | COST/VALUE | COUNCIL'S<br>CONTRIBUTION |
|-----------------------------|--------------|------------|---------------------------|
| Bollards                    | No.          |            |                           |
| Landscaping (trees, shrubs) | Area (m²)    |            |                           |
| Paths                       | Area (m²)    |            |                           |
| Fencing                     | Metres       |            |                           |
| Play equipment              | No.          |            |                           |
| Seats/benches/tables        | No.          |            |                           |
| Other - please specify      |              |            |                           |
|                             |              |            |                           |
|                             | TOTAL        |            |                           |
|                             | TOTAL VESTED |            |                           |

| OTHER (G)              | ME                 | ASURE | COST/VALUE | COUNCIL'S<br>CONTRIBUTION |
|------------------------|--------------------|-------|------------|---------------------------|
| Buildings              | No.                |       |            |                           |
| Other - please specify |                    |       |            |                           |
|                        |                    |       |            |                           |
|                        | TOTAL TOTAL VESTED |       |            |                           |
|                        |                    |       |            |                           |

## **PLANNING GUIDANCE**







## Title Plan - LT 560839

Survey Number 170 560839

Surveyor Reference 21879 Greenfull Park, Stage 15

Surveyor Short Rudney Carley

Survey Firm Shompton and Lipinski Lomited Parmership

Surveyor Declaration

Survey Details.

Dataset Description, Logs 407 - 455, 605 and 707 Being a Sobdivision Log 700 DP 558430

Status Initiated

Land District South Auckland Survey Class Class A

Submitted Date Survey Approval Date

Deposit Date

#### Territorial Authorities

Hantiason City

### Comprised In

RT 980803

### Createst Parcels

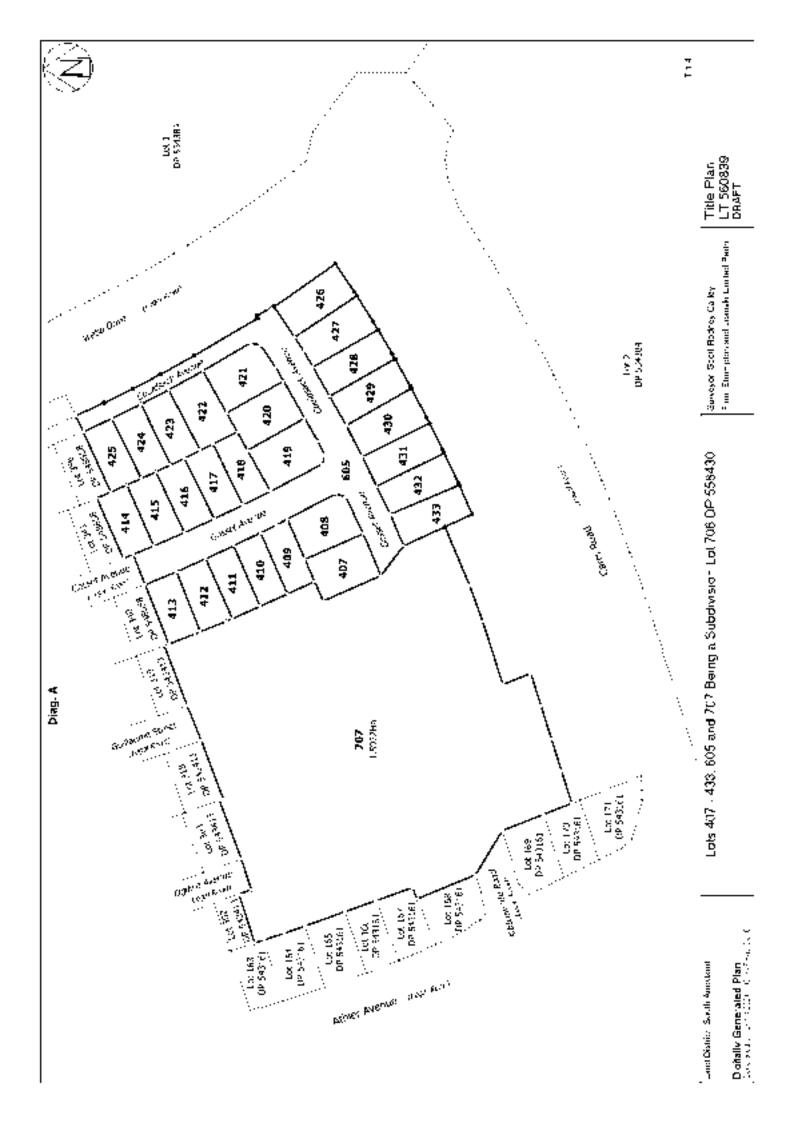
| Parcels                          | Parcel Intent     | Arca                | RT Reference |
|----------------------------------|-------------------|---------------------|--------------|
| Lot 107 Deposited Plan 560839    | Fee Simple Tale   | H 0461 Ha           | 990750       |
| Lot 408 Deposited Plan 560839    | Lee Simple Title  | $0.0460{\rm Hz}$    | 990751       |
| Lot 109 Deposited Plan 500839    | Fee Simple Tale   | 11/04/24 115        | 000752       |
| Lot 410 Deposited Plan 5608 99   | Free Simple Title | $0.0719\mathrm{Hz}$ | 990753       |
| Log 411 Deposited Plan 500839    | Fee Simple Title  | 0.0322 Ha           | 990754       |
| Lot 412 Deposited Plan 560839    | Two Simple Talle  | $0.0949\mathrm{Hz}$ | 990755       |
| Lot 413 Deposited Plan 560839    | Fee Simple Title  | 0.03 fy Ha          | 990756       |
| Lot 11 (Deposited Plan 560839)   | Fee Simple Title  | 11/0/49 Ha          | 990757       |
| Lot 415 Deposited Plan 560839    | Fee Simple Title  | 0.0349 Ha           | 990758       |
| Lot 116 Deposited Plan 560839    | Fee Simple Tale   | 11 0349 Ha          | 000759       |
| Lot 417 Deposited Plan 560839    | Fee Sumple Title  | $0.0348\mathrm{Hz}$ | 990760       |
| Lot 418 Deposited Plan 500839    | Fee Simple Tale   | 0.0315345           | 99[1/6]      |
| Lot 419 Deposited Plan 5608 99   | The Simple Title  | $0.0500\mathrm{Hz}$ | 990762       |
| Lot 420 Deposited Plan 500839    | Fee Simple Title  | 0.0450 Ha           | 990763       |
| Lot 121 Deposited Plan 560839    | Fee Simple Title  | и 0500 Ца           | 9907n4       |
| Lot 422 Deposited Plan 5608,99   | Fee Simple Title  | 0.041b4Ha           | 990765       |
| Lot 123 Deposited Plan 560839    | Fee Simple Title  | H 0.948 Ha          | 990766       |
| Lot 424 Deposited Plan 5608,99   | Lee Simple Title  | 0.0749/Ha           | 990767       |
| Lot 125 Deposited Plant 560839   | Fee Simple Tale   | H 0446 Ha           | 090768       |
| Lot 4.56 Deposited Plant 5608 99 | hee Simple Title  | 0.045014a           | 990769       |
| Lot 427 Deposited Plan 500839    | Fee Simple Title  | 0.0450 Ha           | 990770       |
| Lot 428 Deposited Plan 5608 99   | Fre Simple Title  | 040614a             | 990771       |
| Lot 429 Deposited Plan 560839    | Fee Simple Title  | 0.0 l06 Ha          | 990772       |
| Lot 130 Deposited Plan 560839    | Fee Simple Tale   | $0.0450{\rm Hz}$    | 990773       |

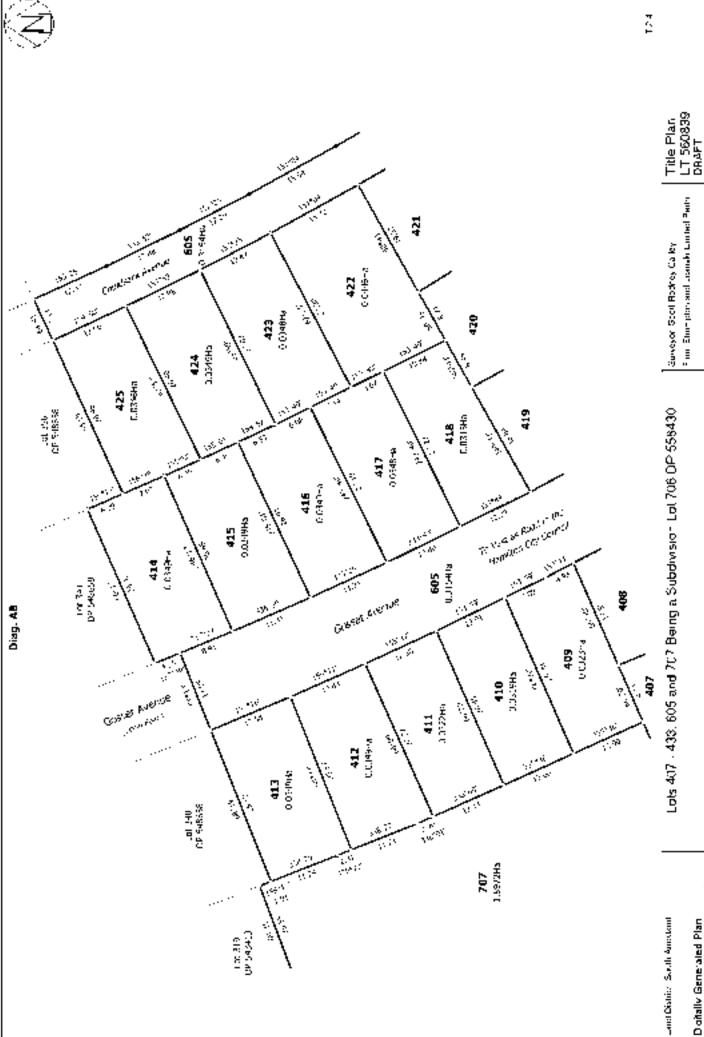




# Title Plan - LT 560839

| Created Pancels                |                                |                     |              |
|--------------------------------|--------------------------------|---------------------|--------------|
| Parcels                        | Parcel Intent                  | Area                | RT Reference |
| Lot 13t Deposited Plan 560839  | Fee Simple Title               | H 0400 Ha           | 990774       |
| Lot 4 O Deposited Plan 5608 99 | Lee Striple File               | $0.0400\mathrm{Hz}$ | 990775       |
| Let 133 Deposited Plan 500839  | Fee Simple Tale                | H 0400 Ha           | 000776       |
| Lot 605 Deposited Plan 5608 W  | Vesting on Depusat for<br>Road | 0.2154 Ha           |              |
| Lot 707 Deposited Plan 5608 W  | bre Simple Title               | 1.5972 Ha           | 990777       |
| Tutal Area                     |                                | 2.9720 Ha           |              |





Digitally Generaled Plan Second 1975 Control of Control of Control



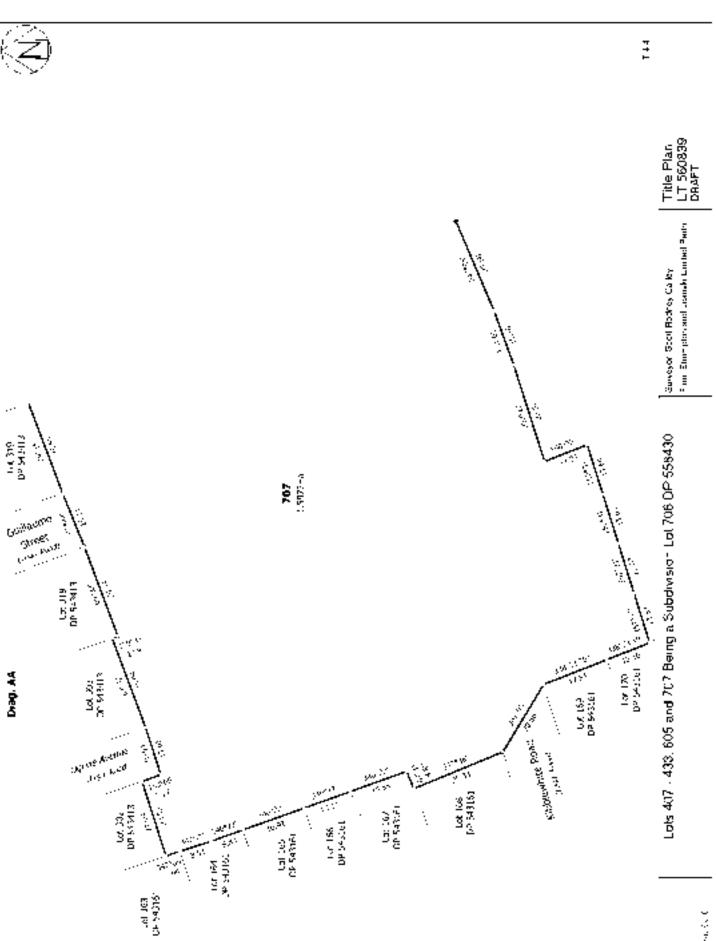
Land District Swills American

Lats 417 - 433, 605 and 707 Being a Subdivision Lat 706 DP 558430

Surveyor Stort Rodney Calley From Story ptory and Leanah Leathed Party

Title Plan LT 560839 DRAFT

Digitally Generaled Plan Second Control Control Control



Land District Swalls American

Digitally Generated Plan Second Control Control Control

| Hamilton City Development Manual                                   |  |  |  |
|--|--|--|--|
| Volume 4 : Quality Systems for Land Development Part 9 — Appendice |  |  |  |
| Authorised by: Design Services Manager                             |  |  |  |

#### APPENDIX 4 ii)

## ${\bf PRODUCER\ STATEMENT-CONSTRUCTION}$

#### CONTRACTOR'S CERTIFICATE UPON COMPLETION OF SUBDIVISIONAL WORK

| Online Contractors 2016 Ltd  |  |
|--|--|
| (Contrac   |  |
| TO: Chedworth Properties Ltd (Princip  | nal)   |
| ·  | 741)   |
| TO BE SUPPLIED TO: Hamilton City Council (Territorial A                              | uthority)  |
| IN RESPECT OF: Greenhill Park Stage 15   |  |
| (Description of sub-   |  |
| AT:AT:   |  |
|  |  |
| (Addre   | 255)   |
| Online Contractors 2016 Ltd has contractors (Contractor)                             | acted to(Principal)                                |
| to carry out and complete certain subdivisional work in actor                        |  |
| Dan Hopper I a duly authorised repr (Duly Authorised Agent)                          | resentative of(Contractor)                         |
| hereby certify thatOnlne Contractors 2016 Ltd  |  |
| has carried out and completed the subdivisional works, accordance with the contract. | other than those outstanding works listed below, i |
| Can Hopper (Signature of Authorised Agent on behalf of)                              | Date   |
| Online Contractors 2016 Ltd  |  |
| (Contractor)   |  |
| PO Box 21187, Rototuna, Hamilton   |  |
| (Address)  |  |
| Outstanding Works  |  |
|  |  |
|  |  |
|  |  |

Version : August 2007

NZS 3910:2013 Conditions of contract for building and civil engineering construction

#### **SCHEDULE 6 – FORM OF PRODUCER STATEMENT - CONSTRUCTION**

| ISSUED BY  | ONLINE CONTRACTORS 2016 LTD   |  |  |
|--|---|--|--|
| то   | CHEDWORTH PROPERTIES LTD  |  |  |
| IN RESPECT   | GREENHILL PARK STAGE 15   |  |  |
| OF   | INCLUDING: SUBDIVISION CIVIL WORKS, ROADING AND EARTHWORKS                      |  |  |
| AT   | GREENHILL PARK, HAMILTON  |  |  |
| complete certain building works in accordance with a Control of Daniel Hopper a duly authorised representative reasonable grounds that ONLINE CONTRACTORS 20 All | of ONLINE CONTRACTORS 2016 LTD believe on 016 LTD as carried out and completed: |  |  |
| Dan Hopper   | 7/4/21  |  |  |
| Signature of Authorised Agent on behalf of   | Date  |  |  |

ONLINE CONTRACTORS 2016 LTD PO BOX 21187 ROTOTUNA HAMILTON 3256

| Hamilton City Development Manual                                  |  |  |  |  |
|---|--|--|--|--|
| Volume 4 : Quality Systems for Land Development Part 9 — Appendic |  |  |  |  |
| Authorised by : Design Services Manager                           |  |  |  |  |

## APPENDIX 4 i)

## CERTIFICATION UPON COMPLETION OF ROADS, PIPELINES AND OTHER SERVICES

|   | (suitably qualified pri  | nfeccionali                              |   |                              |                         |                             |
|---|--|--|---|------------------------------|-------------------------|-----------------------------|
| Chedworth Properties L  |  | oresarches)                              |   |                              |                         |                             |
| го:   | (Development O   | www.er)                                  |   |                              |                         |                             |
| Hamilto   | on City Council  |  |   |                              |                         |                             |
| TO BE SUPPLIED TO:  | (Territorial Auth  | ority)                                   |   | **********                   |                         | ********                    |
| N RESPECT OF: Greenhill Park -  | Stage 15<br>(Description of Develop  | ment Project)                            |   |                              |                         |                             |
| AT: Popham Road, Greenhill F  | Park, Hamilton, New Zealan   | d  |   |                              |                         |                             |
|   | (Address)  |  |   |                              |                         |                             |
| S&L   | has been en ea   | and hu                                   | Che                                     | dworth                       | Properties              | limited                     |
| (Survey Firm)   | nas occir criga,   | sed by                                   | (Develop                                | ment O                       | wrier)                  | 01000000000                 |
| to provide construction observation   | on, review and certificati   | on services                              | in respect                              | of the                       | e above o               | evelopment                  |
| which is described in the specification   |  |  |   |                              |                         |                             |
| approved by Hamilton City Cou   | incil  |  |   |                              |                         |                             |
|   | (Territorial Authori   | ty)                                      |   |                              |                         |                             |
| I have sighted the Hamilton C   | City Council   | cor                                      | nsent and o                             | onditio                      | ns of con               | sent to the                 |
| ()<br>Development and the approved sp   | remonal Authority)   |  |   |                              |                         |                             |
| As an independent professional, I o<br>appropriate to the engagement an   | nd based upon these revi<br>contractor's certification<br>INDS that the works, oth | ews, inform<br>upon comp<br>er than thos | ation supp<br>pletion of<br>se outstand | lied by<br>the wo<br>ling wo | the contr<br>orks (copy | actor during<br>attached) I |
| BELIEVE ON REASONABLE GROU  | n the above consent and s  | oung engin                               | 777 C. M. B. S. S. S.                   |                              |                         |                             |
| BELIEVE ON REASONABLE GROU  | n the above consent and s  | 4.7                                      | 12/4/2021                               |                              |                         |                             |
| BELIEVE ON REASONABLE GROU  |  | 4.7                                      | 12/4/2021                               |                              |                         |                             |
| BELIEVE ON REASONABLE GROU<br>been completed in accordance with<br>Gignature suitably qualified   |  | Date                                     | 12/4/2021<br>CSNZ                       |                              | NZIS                    |                             |
| BELIEVE ON REASONABLE GROU<br>been completed in accordance with<br>(Signature suitably qualified of<br>CMEngNZ, CPEng<br>(Professional Qualificati  | Professional)  | Date                                     | 12/4/2021                               |                              | NZIS                    |                             |
| BELIEVE ON REASONABLE GROU<br>been completed in accordance with<br>Signature suitably qualified<br>CMEngNZ, CPEng   | Professional)  | Date                                     | 12/4/2021                               |                              | NZIS<br>IPENZ           |                             |
| BELIEVE ON REASONABLE GROU<br>been completed in accordance with<br>(Signature suitably qualified of<br>CMEngNZ, CPEng<br>(Professional Qualificati  | Professional)  | Date                                     | 12/4/2021<br>CSNZ<br>ACENZ              |                              |                         |                             |
| BELIEVE ON REASONABLE GROU<br>been completed in accordance with<br>(Signature suitably qualified<br>CMEngNZ, CPEng<br>(Professional Qualificati<br>36 Kereiti Street, Mount Maung:<br>(Address) | Professional)  | Date                                     | 12/4/2021<br>CSNZ                       |                              |                         |                             |
| CMEngNZ, CPEng<br>(Professional Qualificati<br>36 Kereiti Street, Mount Maung:  | Professional)<br>(ons)<br>anui   | Date                                     | CSNZ<br>ACENZ<br>CPEng                  | g 🗵                          | IPENZ                   | Stay to Annoquetica         |

Version : August 2007

| Hamilton City Development Manual                                   |  |  |
|--|--|--|
| Volume 4 : Quality Systems for Land Development Part 9 — Appendice |  |  |
| Authorised by: Design Services Manager                             |  |  |

#### APPENDIX 4 iii)

|                                | HAMILTON CITY COUNCIL   |  |  |  |
|--------------------------------|---|--|--|--|
|                                | CERTIFICATE FOR AS-BUILT DRAWINGS                                       |  |  |  |
| Greenhill Park -               | Stage 15 DEVELOPMENT  |  |  |  |
|                                |   |  |  |  |
| I, Barry Pearson               | , Chartered Professional Engineer/Surveyor,                             |  |  |  |
| hereby certify that all of the | ne information shown on the "as built" drawings and spreadsheets is     |  |  |  |
| correct as to location (x, y a | and z co-ordinates), size, materials. This applies to the following "as |  |  |  |
| built" drawings:               |   |  |  |  |
| Drawing No.                    | Title   |  |  |  |
| 21879-M-15-WW1-Rev AB          | Stage 15 Wastewater Asbuilt Plan  |  |  |  |
| 21879-M-15-W1 Rev AB           | Stage 15 Water Reticulation Asbuilt Plan                                |  |  |  |
| 21879-M-15-SW1 Rev AB          | Stage 15 Stormwater Asbuilt Plan  |  |  |  |
| 21879-M-15-R1-Rev AB           | Stage 15 Roading Asbuilt Plan   |  |  |  |
|                                |   |  |  |  |
|                                |   |  |  |  |
|                                |   |  |  |  |
|                                | Barry Pearson   |  |  |  |
|                                | Chartered Professional Engineer/Surveyor                                |  |  |  |
|                                | 14/4/2021   |  |  |  |
|                                |   |  |  |  |

Version : August 2007

# **Strategic Development Unit Works Clearance Checklist**

Note: Please refer to the Regional Infrastructure Technical Specifications for testing requirements and guidelines.

Consent Ref: 11.2018.6632 Site Address: Webb Drive, Greenhill Park

New Street Name: Stage 15 – Greenhill Park Development Engineer:

| Documentation   | Completed | Date      | Notes                                       |
|---|-----------|-----------|---|
| General   | -         |           |   |
| GST register for all vested asset (PG<br>L4 and PG L5)  |           |           |   |
| Upsize contribution documentation   | N/A       |           |   |
| WEL completion certificate  | Υ         | 8/4/2021  | Attached                                    |
| Gas completion certificate (where necessary)  | Υ         | 7/4/2021  | Attached                                    |
| UFF completion certificate  | Υ         | 27/3/2021 | Attached                                    |
| Roading   |           | L         |   |
| Completion Certificate (PS4 or similar)   | Y         | Various   | Attached (schedule 6, App 4i, 4ii and 4iii) |
| Subgrade  |           |           |   |
| <ul> <li>Stringing or survey of<br/>prepared surface (relative<br/>shape and height)</li> </ul> | Y         | 1/3/2021  | Attached                                    |
| - Compaction (natural subgrade – Scala, SIL sand-Scala, SIL brown rock – Clegg)                 | Y         | 22-1-2021 | Attached (Clegg results)                    |
| Subbase   |           |           | No subbase aggregate in Stage 15            |
| <ul> <li>Stringing (relative shape and height)</li> </ul>                                       | N/A       |           |   |
| - Compaction (clegg)  | N/A       |           |   |
| - Nuclear densometer (NDMS)   | N/A       |           |   |
| Basecourse  |           |           |   |

|  | 1  | Т            |                     |
|--|----|--------------|---------------------|
|  | Υ  | 15-3-21      | Attached            |
| <ul> <li>Stringing (relative shape</li> </ul>  |    | Roads 22, 37 |                     |
| and height)  |    | & 38         |                     |
|  | Υ  | 12-3-21      | Attached            |
| <ul> <li>Compaction (clegg)</li> </ul>   |    | Roads 22, 37 | rictaerrea          |
| (41266)  |    |              |                     |
|  |    | & 38         |                     |
|  | Υ  | 16-3-21      | Attached            |
| - Nuclear densometer   |    | Roads 22, 37 |                     |
| (NDMS)   |    | & 38         |                     |
|  | Υ  | 17-3-21      | Attached            |
| - Benkelman beam test  |    | Roads 22, 37 |                     |
|  |    |              |                     |
|  |    | & 38         |                     |
|  | Υ  | 8-4-2021     | Attached            |
| RAMM Pavement  |    |              |                     |
|  | Υ  | 1/4/2021     | Attached            |
| RAMM Surfacing   |    |              |                     |
| Streetlight  |    |              |                     |
|  | Υ  | 14-4-2021    | Attached            |
| Asbuilt Plan   |    |              |                     |
|  | Υ  | 10/3/2021    | Attached            |
| RAMM Streetlight   |    | ==,=,=====   |                     |
| The second secon |    | 8-4-2021     | Attached (WEL work  |
| Copy of approved application for   |    | 0-4-2021     | -                   |
|  |    |              | clearance)          |
| new connection   |    | 40/44/2020   | Attacked            |
| Duradicas a Chahamanan   | Υ  | 10/11/2020   | Attached            |
| Producer Statement   | ., | 0 10 10 00 1 |                     |
|  | Υ  | 9/3/2021     | Attached            |
| CoC or ESC signed by authorised  |    |              |                     |
| person   |    |              |                     |
|  |    | 8-4-2021     | Attached (WEL work  |
| Asbuilt in format approved by WEL  |    |              | clearance)          |
|  |    | 8-4-2021     | Attached (WEL work  |
| Confirmation of practical completion   |    | 0 1 2021     | clearance)          |
| or 224c sign off   |    |              | ( clearance)        |
| 01 2240 31611 011  |    | 8-4-2021     | Attached (M/EL work |
| WEL Notworks approval shoot  |    | 0-4-2021     | Attached (WEL work  |
| WEL Networks approval sheet  |    |              | clearance)          |
| (Written confirmation from WEL for   |    |              |                     |
| the acceptance of all underground  |    |              |                     |
| cabling and circuitry)   |    |              |                     |
|  | Υ  | 4/3/2021     | Attached            |
| Manufacturer's Warranty  |    |              |                     |
| Documents  |    |              |                     |
| Road Drainage  |    |              |                     |
| Ü  | Υ  | 14-4-2021    | Attached            |
| Asbuilt plan (subsoil/catchpit/leads   |    |              | 1                   |
| (sauce in eacon profite according  | Υ  | 14-4-2021    | Attached            |
| Secondary flow path  | '  | 14-4-7071    | Attaclied           |
| Secondary now patri  | V  | 14 4 2021    | Attached            |
| Signago and Marking Ashailt Disa   | Υ  | 14-4-2021    | Attached            |
| Signage and Marking Asbuilt Plan   |    |              |                     |
| Water  | 1  |              |                     |
|  | Υ  | 14-4-2021    | Attached            |
| Water as-built plan  |    |              |                     |
|  | Υ  | 14-4-2021    | Attached            |
| Data Sheet   |    |              |                     |
|  | •  | •            |                     |

|   | Υ        | 4/2/2021    | Attached                  |
|---|----------|-------------|---------------------------|
| Pressure test certificate   |          | -,, =, ==== | 7.550                     |
| DXF (if >2 lots)  | N/A      |             |                           |
| Bacteriological test result   | Υ        | 16/2/2021   | Attached                  |
| Hydrant test (where necessary)  | N/A      |             |                           |
| RITS checklists   |          |             |                           |
| <ul> <li>F6.1 Water reticulation design confirmation,</li> </ul>                      | N/A      |             | Beca design               |
| <ul> <li>F6.2 Water reticulation pipe<br/>laying checklist,</li> </ul>                | 7/4/2021 |             | Attached                  |
| - F6.3 Water reticulation final inspection checklist                                  | 8/4/2021 |             | Attached                  |
| Wastewater  | ·        |             |                           |
| Wastewater as-built plan  | Υ        | 14-4-2021   | Attached                  |
| Data sheet  | Υ        | 14-4-2021   | Attached                  |
| DXF (if >2 lots)  | N/A      |             |                           |
| CCTV investigation  | Υ        | 12-4-2021   | Submission email attached |
|   | Υ        | 16/11/2020  | Attached                  |
| Pipe Pressure test  | Υ        | 16/11/2020  | Attached                  |
| Manhole pressure test  Trench backfill  | Υ        | Not dated   | Attached (Clegg results)  |
|   |          |             |                           |
| - F5.1 wastewater design confirmation,  | N/A      |             | Beca design               |
| <ul> <li>F5.2 Wastewater pipe laying checklist,</li> </ul>                            | Y        | 16/12/2020  | Attached                  |
| <ul> <li>F5.3 Wastewater manhole checklist,</li> </ul>                                | Υ        | 16/12/2020  | Attached                  |
| <ul> <li>F5.4 Wastewater trench<br/>backfill test summary,</li> </ul>                 | Υ        | 16/12/2020  | Attached                  |
| <ul> <li>F5.6 Wastewater pipe<br/>network- final inspection<br/>checklist,</li> </ul> | Y        | 9/3/2021    | Attached                  |

|   | N/A |            |                            |
|---|-----|------------|----------------------------|
| - F5.7 Pump station control   |     |            |                            |
| programming checklist   |     |            |                            |
| Stormwater  |     |            | 1                          |
| Stormwater as-built plan  | Υ   | 14-4-2021  | Attached                   |
| Data sheet  | Υ   | 14-4-2021  | Attached                   |
| Data sileet   | N/A |            |                            |
| DXF (if >2 lots)  |     |            |                            |
| Wetland as-built plan (see RITS for minimum details required)                               | N/A |            |                            |
| Completed planting plan (confirmation that plants are in accordance with the accepted plan) |     |            | To be provided             |
| Proprietary device completion certificate   | N/A |            |                            |
| Final operation and maintenance manual  | N/A |            |                            |
| CCTV investigation  | Υ   | 12-4-2021  | Submission email attached. |
| Trench backfill   | Υ   | Not dated  | Attached (Clegg Results)   |
| RITS checklist  |     |            |                            |
| <ul> <li>F4.1 Stormwater design<br/>checklist,</li> </ul>                                   | N/A |            | Beca design                |
| <ul> <li>F4.2 Stormwater pipe laying<br/>checklist,</li> </ul>                              | Υ   | 14/12/2020 | Attached                   |
| <ul> <li>F4.3 Stormwater manhole<br/>checklist,</li> </ul>                                  | Υ   | 14/12/2020 | Attached                   |
| <ul> <li>F4.4 Stormwater trench<br/>backfill compaction test<br/>summary,</li> </ul>        | Y   | 14/12/2020 | Attached                   |
| <ul> <li>F4.5 Stormwater catchpit checklist,</li> </ul>                                     | Υ   | 14/12/2020 | Attached                   |
| <ul> <li>F4.6 Stormwater pipe<br/>network final inspection<br/>checklist,</li> </ul>        | Y   | 9/3/2021   | Attached                   |
| <ul> <li>F4.7 Wetland construction inspection checklist,</li> </ul>                         | N/A |            |                            |
| <ul> <li>F4.8 Wetland and<br/>inspection/Sign off checklist</li> </ul>                      | N/A |            |                            |

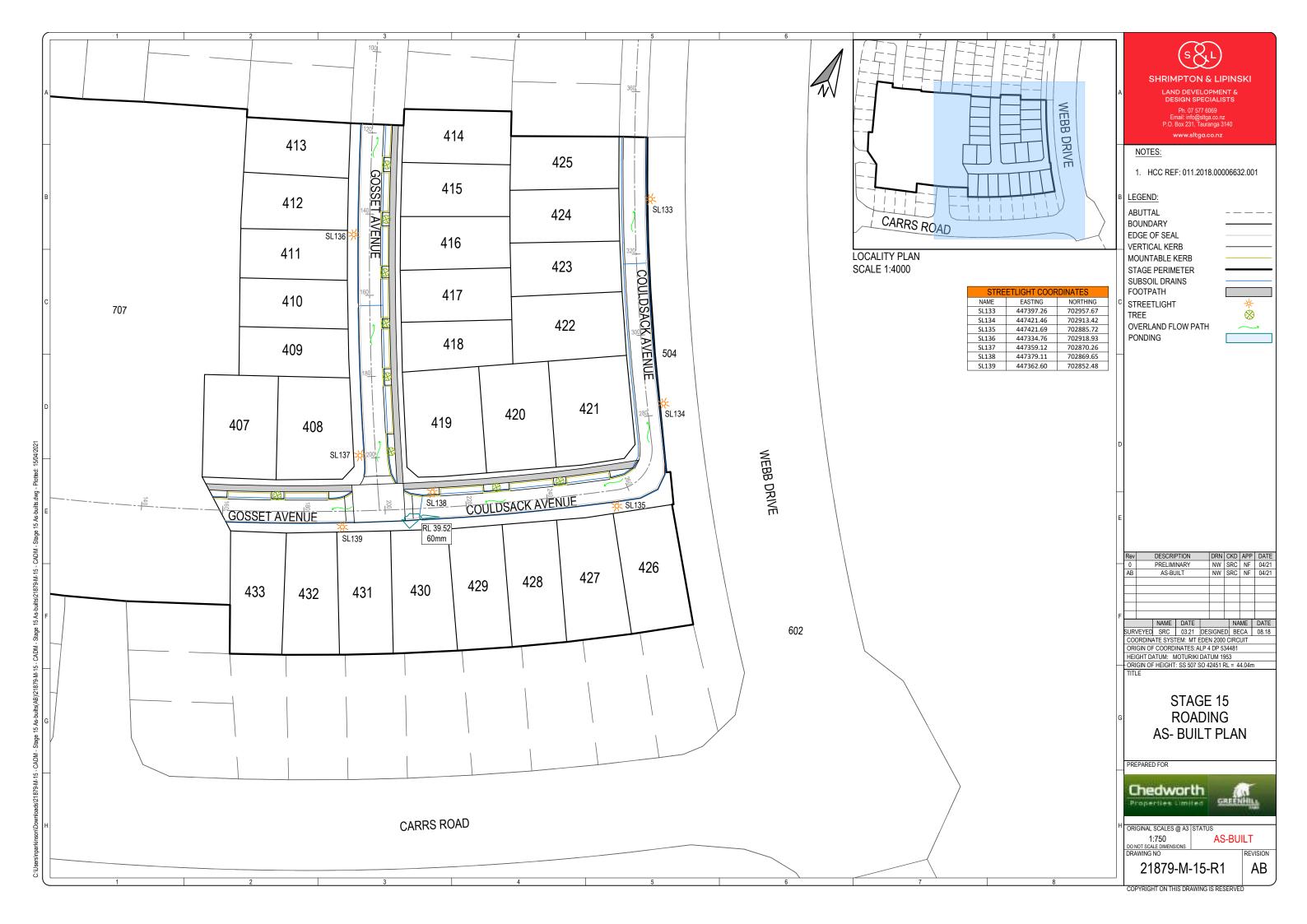
|   | N/A           |                         |
|---|---------------|-------------------------|
| <ul> <li>Final Operation and</li> </ul> |               |                         |
| Maintenance Manual                      |               |                         |
|   | N/A           |                         |
| - Final Water Impact                    |               |                         |
| Assessment                              |               |                         |
|   | As Built plan |                         |
| Parks and Open Spaces Street            |               |                         |
| trees/planting sign off                 |               |                         |
| Bond                                    |               |                         |
|   | N/A           |                         |
| Quote                                   |               |                         |
|   |               | To be supplied from HCC |
| Signed bond form                        |               |                         |
|   | N/A           |                         |
| Other:                                  |               |                         |
|   |               |                         |
|   |               |                         |
|   |               |                         |
|   |               |                         |
|   |               |                         |
|   |               |                         |

#### **APPENDIX 9**

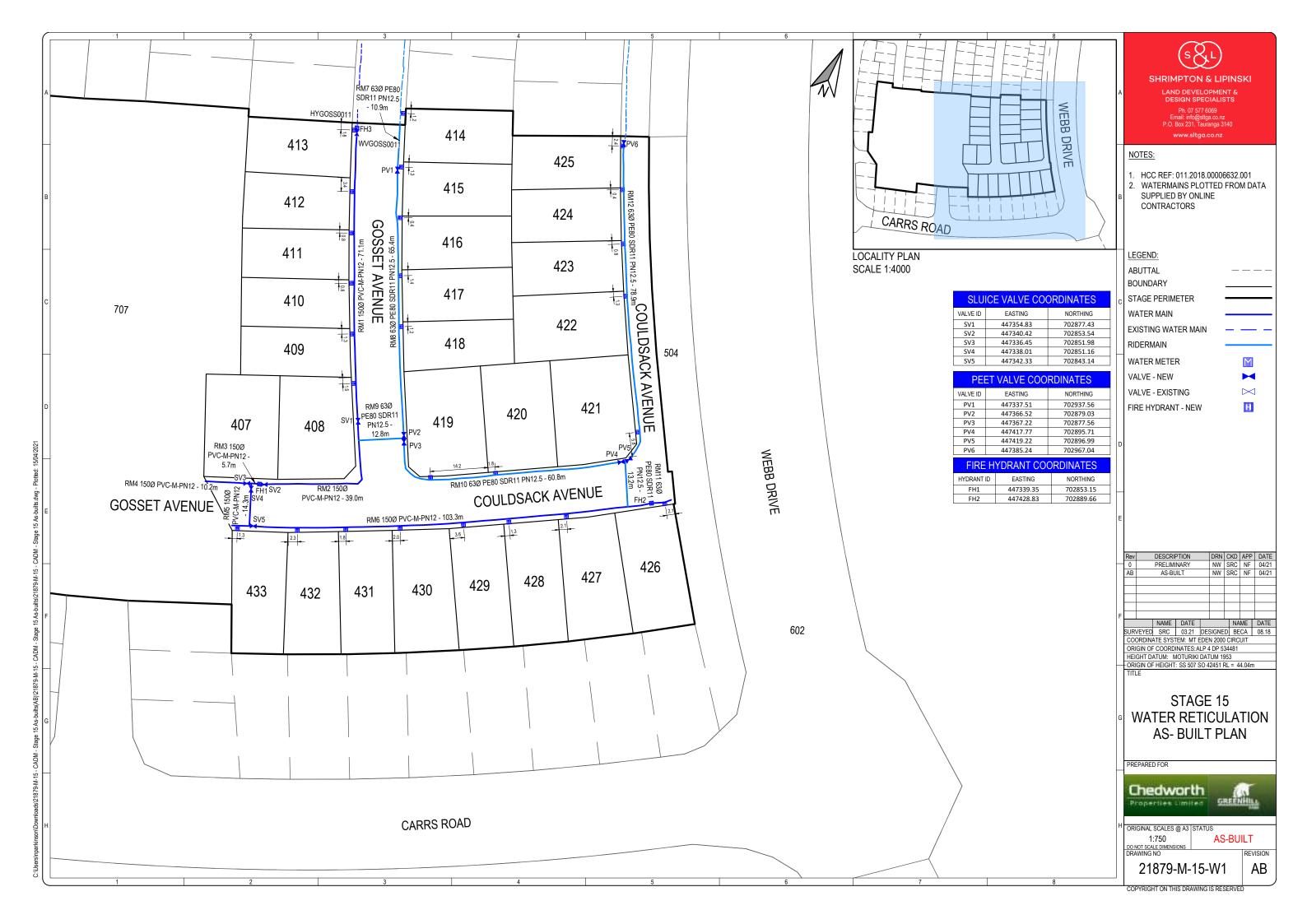
Reference: 30378

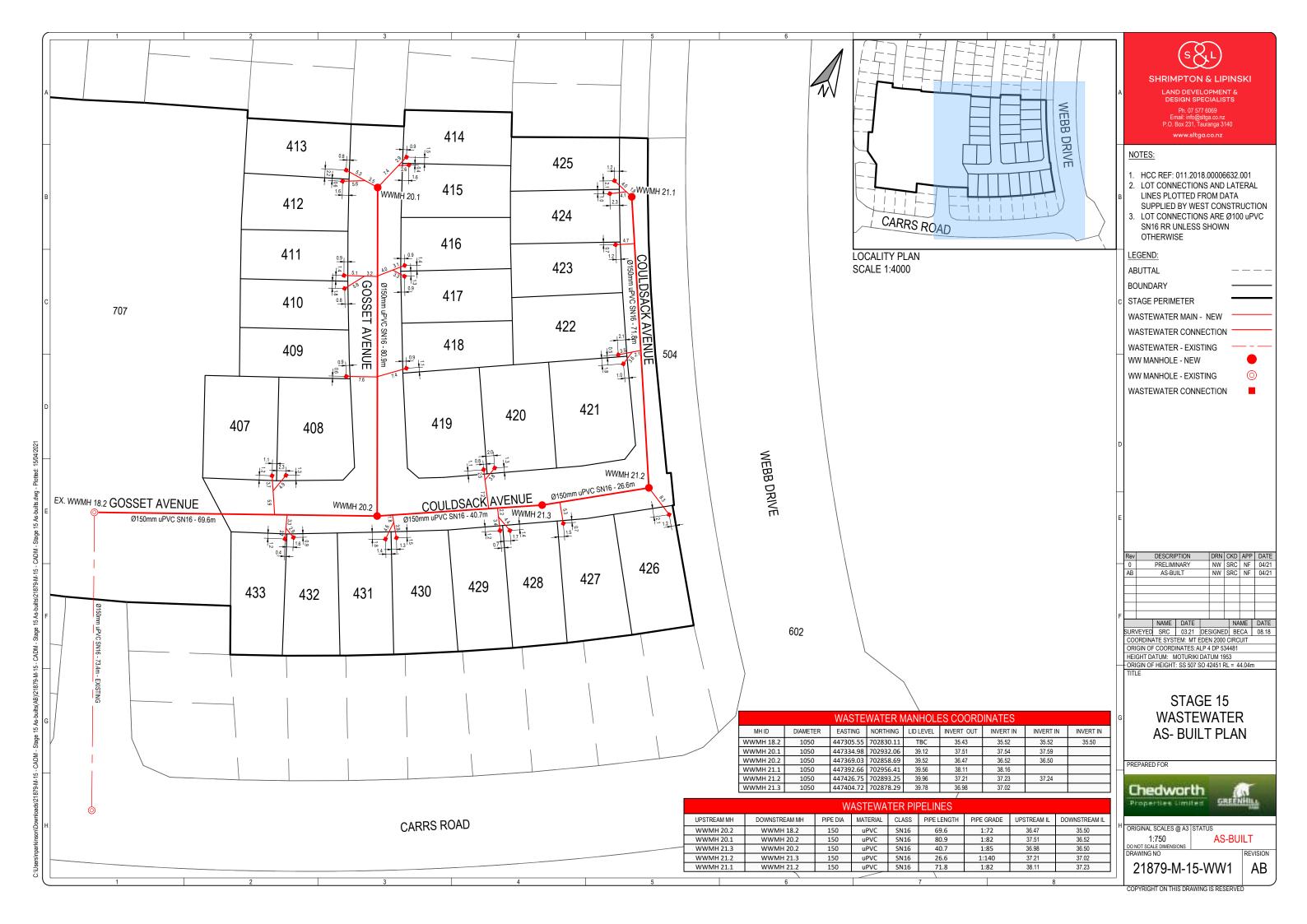
## **As Built Drawings**

- 21879-M-15-WW1 Rev AB Stage 15 Wastewater Asbuilt Plan
- 21879-M-15-W1 Rev AB Stage 15 Water Reticulation Asbuilt Plan
- 21879-M-15-SW1 Rev AB Stage 15 Stormwater Asbuilt
   Plan
- 21879-M-15-R1 Rev AB Stage 15 Roading Asbuilt Plan









## **APPENDIX 10**

Reference: 30378

## Asset Spreadsheets – Hard copy

- Water asset sheets
- Wastewater asset sheets
- Stormwater asset sheets

| As Built Datasheet (to accompany As Built Plans) | Waikato Regional ITS       |
|--|----------------------------|
| STORMWATER MANHOLES                              | Form Version 1 - July 2017 |

Developer/Contractor: Chedworth Properties Ltd / Online Contractors Greenhill Park

Prepared by: Date:

S & L Apr-21

Development/Subdivision/Job: Stage:

Stage 15

(Centre)

(North Rim) (Centre)

| Plan ID        | Manhole ID | Property ID (Lot No. or<br>Address) | Street Name | Street Type | Lid Level<br>(m) | Invert Level (m) | MH<br>Width/Diam<br>(mm) | Easting Coordinate | Northing<br>Coordinate | Service Status | Install Date | Asset Value | Comments   |
|----------------|------------|-------------------------------------|-------------|-------------|------------------|------------------|--------------------------|--------------------|------------------------|----------------|--------------|-------------|--|
| 21879-M-15-SW1 | SWM24142   | LOT 410                             | GOSSET      | AVENUE      | 39.23            | 37.31            | 1050                     | 447344.68          | 702905.13              | Е              | Aug-20       | N/A         | EXISTING MH FROM STAGE 12 (S&L Ref SWMH 17.1)  |
| 21879-M-15-SW1 | SWMH 19.1  | LOT 707                             | N/A         | NA/         | TBC              | 37.26            | 1200                     | 447305.16          | 702835.08              | E              | Dec-20       |             | EXISTING MH FROM STAGE 13 (S&L Ref SWMH 19.1) LID<br>LEVEL TO BE PROVIDED IN STAGE 14 AREA M |
| 21879-M-15-SW1 | SWMH 21.1  | LOT 427                             | COULDSACK   | AVENUE      | 39.94            | 38.24            | 1050                     | 447413.40          | 702886.29              | N              | Dec-20       | \$4,301     |  |
| 21879-M-15-SW1 | SWMH 21.2  | LOT 430                             | COULDSACK   | AVENUE      | 39.57            | 37.90            | 1050                     | 447376.61          | 702865.14              | N              | Dec-20       | \$4,301     |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    |                        |                |              |             |  |
|                |            |                                     |             |             |                  |                  |                          |                    | <u>'</u>               |                | <u>'</u>     |             |  |

| As Built Datasheet (to accompany As Built Plans) | Waikato Regional ITS       |
|--|----------------------------|
| STORMWATER PIPELINES                             | Form Version 1 - July 2017 |

 Developer/Contractor:
 Chedworth Properties Ltd / Online Ontractors
 Prepared by:
 S & L

 Development/Subdivision/Job:
 Greenhill Park
 Date:
 Apr-21

Stage: Stage 15

| Plan ID        | Upstr MH/ Asset<br>ID | Dwnstr MH/ Asset<br>ID | Street Name | Street Type | Physical Location (where necessary) | Pipe<br>Diameter<br>(mm) | Pipe<br>Length<br>(m) | Pipe Material | Joint Type | Invert<br>Level Upstr<br>(m) | Invert<br>Level<br>Dwnstr<br>(m) | Service<br>Status | Install Date | Asset Value | Comments |
|----------------|-----------------------|------------------------|-------------|-------------|-------------------------------------|--------------------------|-----------------------|---------------|------------|------------------------------|----------------------------------|-------------------|--------------|-------------|----------|
| 21879-M-15-SW1 | SWMH 21.2             | SWMH 19.1              | GOSSET      | AVENUE      | ROADWAY                             | 375                      | 77.5                  | RC            | RR         | 37.90                        | 37.28                            | N                 | Dec-20       | \$24,953    |          |
| 21879-M-15-SW1 | SWMH 21.1             | SWMH 21.2              | COULDSACK   | AVENUE      | ROADWAY                             | 375                      | 42.4                  | RC            | RR         | 38.24                        | 37.91                            | N                 | Dec-20       | \$13,652    |          |
|                |                       |                        |             |             |                                     |                          |                       |               |            |                              |                                  |                   |              |             |          |
| 21879-M-15-SW1 | SWM24142              | SWM24143               | GOSSET      | AVENUE      | ROADWAY                             | 375                      | 57.6                  | RC            | RR         | 37.31                        | 37.01                            | Е                 | Aug-20       | N/A         |          |
|                |                       |                        |             |             |                                     |                          |                       |               |            |                              |                                  |                   |              |             |          |

# As Built Datasheet (to accompany As Built Plans) STORMWATER CONNECTION/SERVICE LINE

Waikato Regional ITS

Form Version 1 - July 2017

Developer/Contractor: Development/Subdivision/Job:

Stage:

Chedworth Properties Ltd / Online Contractors

Greenhill Park

Stage 15

Date:

S&L Prepared by: Apr-21

| Plan ID        | Upstr MH/ Asset ID | Dwnstr MH/ Asset<br>ID | Property ID (Lot No. or Address) | Street Name | Street<br>Type | Physical Location (where necessary) | Service<br>Pipe Diam<br>(mm) | Service<br>Pipe<br>Length<br>(m) | Service Pipe<br>Material | Invert Level At Private End (m) OR Depth (m) | Easting<br>Coordinate | Northing<br>Coordinate | Distance<br>from left<br>(LB) or<br>right (RB)<br>boundary<br>(m) | Distance<br>from front<br>(FB) or back<br>(BB)<br>boundary<br>(m) | Service<br>Status | Install Date | Asset Value | Comments                               |
|----------------|--------------------|------------------------|----------------------------------|-------------|----------------|-------------------------------------|------------------------------|----------------------------------|--------------------------|--|-----------------------|------------------------|---|---|-------------------|--------------|-------------|--|
| 21879-M-15-SW1 | SWMH21.2           | SWMH 19.1              | LOT 407                          | GOSSET      | AVENUE         | BERM                                | 100/150                      | 7.3                              | uPVC SN16                | 1.2  | 447327.40             | 702851.28              | 2.1LB   | 1.6FB   | N                 | Dec-20       | \$664       | PIPE SIZE: 4.7m = 100mm; 2.6m = 150mm  |
| 21879-M-15-SW1 | SWMH21.2           | SWMH 19.1              | LOT 408                          | GOSSET      | AVENUE         | BERM                                | 100                          | 6.6                              | uPVC SN16                | 1.2  | 447352.02             | 702861.93              | 10.7LB  | 1.3FB   | N                 | Dec-20       | \$590       |  |
| 21879-M-15-SW1 | -                  | SWM24142               | LOT 409                          | GOSSET      | AVENUE         | BERM                                | 100/150                      | 10.6                             | uPVC SN16                | 1.2  | 447342.41             | 702895.58              | 1.2RB   | 1.6FB   | N                 | Dec-20       | \$919       | PIPE SIZE: 5.0m = 100mm; 5.6m = 150mm  |
| 21879-M-15-SW1 | -                  | SWM24142               | LOT 410                          | GOSSET      | AVENUE         | BERM                                | 100                          | 3.4                              | uPVC SN16                | 1.2  | 447341.55             | 702897.53              | 1.0LB   | 1.5FB   | N                 | Dec-20       | \$372       |  |
| 21879-M-15-SW1 | SWM24142           | SWM24143               | LOT 411                          | GOSSET      | AVENUE         | BERM                                | 100/150                      | 8.8                              | uPVC SN16                | 1.2  | 447333.73             | 702914.57              | 4.6RB   | 1.2FB   | N                 | Dec-20       | \$747       | PIPE SIZE: 8.1m = 100mm; 0.7m = 150mm  |
| 21879-M-15-SW1 | SWM24142           | SWM24143               | LOT 412                          | GOSSET      | AVENUE         | BERM                                | 100                          | 6.1                              | uPVC SN16                | 1.2  | 447331.15             | 702919.57              | 1.1LB   | 1.5FB   | N                 | Dec-20       | \$556       |  |
| 21879-M-15-SW1 | SWM24142           | SWM24143               | LOT 413                          | GOSSET      | AVENUE         | BERM                                | 100                          | 4.4                              | uPVC SN16                | 1.2  | 447321.64             | 702941.71              | 1.3RB   | 1.4FB   | N                 | Dec-20       | \$440       |  |
| 21879-M-15-SW1 | SWM24142           | SWM24143               | LOT 414                          | GOSSET      | AVENUE         | BERM                                | 100                          | 4.6                              | uPVC SN16                | 1.2  | 447335.02             | 702950.16              | 2.7LB   | 1.1FB   | N                 | Dec-20       | \$454       |  |
| 21879-M-15-SW1 | SWM24142           | SWM24143               | LOT 415                          | GOSSET      | AVENUE         | BERM                                | 100                          | 7.1                              | uPVC SN16                | 1.2  | 447344.46             | 702929.16              | 0.7RB   | 1.6FB   | N                 | Dec-20       | \$624       |  |
| 21879-M-15-SW1 | SWM24142           | SWM24143               | LOT 416                          | GOSSET      | AVENUE         | BERM                                | 100/150                      | 11.5                             | uPVC SN16                | 1.2  | 447345.70             | 702923.35              | 5.0LB   | 0.3FB   | N                 | Dec-20       | \$958       | PIPE SIZE: 8.2m = 100mm; 3.3m = 150mm  |
| 21879-M-15-SW1 | -                  | SWM24143               | LOT 417                          | GOSSET      | AVENUE         | BERM                                | 100                          | 4.2                              | uPVC SN16                | 1.2  | 447355.25             | 702906.17              | 1.4RB   | 1.5FB   | N                 | Dec-20       | \$426       |  |
| 21879-M-15-SW1 | -                  | SWM24143               | LOT 418                          | GOSSET      | AVENUE         | BERM                                | 100/150                      | 10.9                             | uPVC SN16                | 1.2  | 447355.49             | 702903.74              | 0.9LB   | 0.7FB   | N                 | Dec-20       | \$953       | PIPE SIZE: 4.0m = 100mm; 6.9m = 150mm  |
| 21879-M-15-SW1 | -                  | SWMH 21.2              | LOT 419                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 8.8                              | uPVC SN16                | 1.2  | 447375.61             | 702873.91              | 14.6RB  | 1.6FB   | N                 | Dec-20       | \$740       |  |
| 21879-M-15-SW1 | SWMH 21.1          | SWMH 21.2              | LOT 420                          | COULDSACK   | AVENUE         | BERM                                | 100/150                      | 7.4                              | uPVC SN16                | 1.2  | 447402.01             | 702888.29              | 1.7RB   | 1.2FB   | N                 | Dec-20       | \$681       | PIPE SIZE: 3.8m = 100mm; 3.6m = 150mm  |
| 21879-M-15-SW1 | SWMH 21.1          | SWMH 21.2              | LOT 421                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 4.3                              | uPVC SN16                | 1.2  | 447405.24             | 702889.13              | 1.5LB   | 0.4FB   | N                 | Dec-20       | \$433       |  |
| 21879-M-15-SW1 | SWMH SP 4.2        | SWM25005               | LOT 422                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 4.9                              | uPVC SN16                | 1.2  | 447399.78             | 702931.57              | 1.9RB   | 1.9FB   | N                 | Dec-20       | \$474       |  |
| 21879-M-15-SW1 | SWMH SP 4.2        | SWM25005               | LOT 423                          | COULDSACK   | AVENUE         | BERM                                | 100/150                      | 13.8                             | uPVC SN16                | 1.2  | 447399.10             | 702934.19              | 0.8LB   | 1.2FB   | N                 | Dec-20       | \$1,183     | PIPE SIZE: 3.7m = 100mm; 10.1m = 150mm |
| 21879-M-15-SW1 | SWM25005           | SWM25006               | LOT 424                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 13.4                             | uPVC SN16                | 1.2  | 447393.17             | 702945.59              | 1.1LB   | 1.3FB   | N                 | Dec-20       | \$1,054     |  |
| 21879-M-15-SW1 | SWM25005           | SWM25006               | LOT 425                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 4.8                              | uPVC SN16                | 1.2  | 447383.99             | 702966.52              | 1.8RB   | 0.6FB   | N                 | Dec-20       | \$467       |  |
| 21879-M-15-SW1 | -                  | SWMH 21.1              | LOT 426                          | COULDSACK   | AVENUE         | BERM                                | 100/150                      | 10.2                             | uPVC SN16                | 1.2  | 447423.37             | 702883.83              | 1.5RB   | 0.8FB   | N                 | Dec-20       | \$901       | PIPE SIZE: 3.7m = 100mm; 6.5m = 150mm  |
| 21879-M-15-SW1 | -                  | SWMH 21.1              | LOT 427                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 3.4                              | uPVC SN16                | 1.2  | 447421.80             | 702881.95              | 0.8LB   | 1.5FB   | N                 | Dec-20       | \$372       |  |
| 21879-M-15-SW1 | SWMH 21.1          | SWMH 21.2              | LOT 428                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 7.8                              | uPVC SN16                | 1.2  | 447408.89             | 702874.74              | 1.5LB   | 0.9FB   | N                 | Dec-20       | \$672       |  |
| 21879-M-15-SW1 | SWMH 21.1          | SWMH 21.2              | LOT 429                          | COULDSACK   | AVENUE         | BERM                                | 100/150                      | 8.2                              | uPVC SN16                | 1.2  | 447388.20             | 702862.29              | 1.3RB   | 1.5FB   | N                 | Dec-20       | \$736       | PIPE SIZE: 4.5m = 100mm; 3.7m = 150mm  |
| 21879-M-15-SW1 | SWMH 21.1          | SWMH 21.2              | LOT 430                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 5.2                              | uPVC SN16                | 1.2  | 447385.03             | 702861.09              | 2.0LB   | 1.1FB   | N                 | Dec-20       | \$495       |  |
| 21879-M-15-SW1 | SWMH 21.2          | SWMH 19.1              | LOT 431                          | GOSSET      | AVENUE         | BERM                                | 100                          | 5.5                              | uPVC SN16                | 1.2  | 447364.42             | 702850.67              | 2.2RB   | 1.2FB   | N                 | Dec-20       | \$515       |  |
| 21879-M-15-SW1 | SWMH 21.2          | SWMH 19.1              | LOT 432                          | GOSSET      | AVENUE         | BERM                                | 100/150                      | 9.8                              | uPVC SN16                | 1.2  | 447361.53             | 702848.27              | 1.4LB   | 2.1FB   | N                 | Dec-20       | \$860       | PIPE SIZE: 4.7m = 100mm; 5.1m = 150mm  |
| 21879-M-15-SW1 | SWMH 21.2          | SWMH 19.1              | LOT 433                          | GOSSET      | AVENUE         | BERM                                | 100/150                      | 10.5                             | uPVC SN16                | 1.2  | 447340.61             | 702839.62              | 2.2RB   | 1.3FB   | N                 | Dec-20       | \$916       | PIPE SIZE: 4.6m = 100mm; 5.9m = 150mm  |

| As Built Datasheet (to accompany As Built Plans) | Waikato Regional ITS       |
|--|----------------------------|
| STORMWATER CATCHPITS                             | Form Version 1 - July 2017 |

Developer/Contractor: Chedworth Properties Ltd / Online Contractors Prepared by: S & L Apr-21 Development/Subdivision/Job: Greenhill Park Date:

Stage: Stage 15

| Plan ID        | Catchpit ID | Property ID (Lot No. or<br>Address) | Street Name | Street<br>Type | Catchpit Type | Grate Level<br>(m) | Easting Coordinate | Northing<br>Coordinate | Service<br>Status | Install Date | Asset Value | Comments |
|----------------|-------------|-------------------------------------|-------------|----------------|---------------|--------------------|--------------------|------------------------|-------------------|--------------|-------------|----------|
| 21879-M-15-SW1 | CP SP 22    | LOT 423                             | COULDSACK   | AVENUE         | SINGLE SUMP   | 39.59              | 447403.03          | 702942.99              | N                 | Dec-20       | \$2,071     |          |
| 21879-M-15-SW1 | CP 101      | LOT 410                             | GOSSET      | AVENUE         | SINGLE SUMP   | 39.16              | 447343.46          | 702903.68              | N                 | Dec-20       | \$2,071     |          |
| 21879-M-15-SW1 | CP 109      | LOT 430                             | COULDSACK   | AVENUE         | SINGLE SUMP   | 39.46              | 447378.87          | 702862.41              | N                 | Dec-20       | \$2,071     |          |
|                |             |                                     |             |                |               |                    |                    |                        |                   |              |             |          |

| As Built Datasheet (to accompany As Built Plans) | Waikato Regional ITS       |
|--|----------------------------|
| STORMWATER CATCHPIT LEADS                        | Form Version 1 - July 2017 |

Developer/Contractor: Chedworth Properties Ltd / Online Contractors Prepared by: Development/Subdivision/Job: Greenhill Park

Stage:

Stage 15

S & L Apr-21 Date:

| Plan ID        | Catchpit ID | Dwnstr MH/<br>Asset ID | Property ID (Lot No. or<br>Address) | Street Name | Street Type | Physical Location (where necessary) | Catchpit<br>Lead Pipe<br>Diam<br>(mm) | Catchpit<br>Lead Pipe<br>Length<br>(m) | Catchpit Lead<br>Pipe Material | Invert<br>Level at<br>Dwnstrm<br>end | Service<br>Status | Install Date | Asset Value | Comments |
|----------------|-------------|------------------------|-------------------------------------|-------------|-------------|-------------------------------------|---------------------------------------|--|--------------------------------|--------------------------------------|-------------------|--------------|-------------|----------|
| 21879-M-15-SW1 | CP SP 22    | SWM25005               | LOT 423                             | COULDSACK   | AVENUE      | ROADWAY                             | 225                                   | 5.9                                    | uPVC SN16                      | 38.47                                | N                 | Dec-20       | \$1,372     |          |
| 21879-M-15-SW1 | CP 101      | SWM24142               | LOT 410                             | GOSSET      | AVENUE      | ROADWAY                             | 225                                   | 1.9                                    | uPVC SN17                      | 37.82                                | Ν                 | Dec-20       | \$442       |          |
| 21879-M-15-SW1 | CP 109      | SWMH 21.2              | LOT 430                             | COULDSACK   | AVENUE      | ROADWAY                             | 225                                   | 3.5                                    | uPVC SN17                      | 38.23                                | N                 | Dec-20       | \$814       |          |
|                |             |                        |                                     |             |             |                                     |                                       |  |                                |                                      |                   |              |             |          |

Hamilton City Council Infrastructure Technical Specifications 2013 Section 1 - General

#### As Built Datasheet (to accompany As Built Plans)

STORMWATER SUBSOIL DRAIN

Prepared by:

Date:

Waikato Regional ITS Form Version 1 - July 2017

Developer/Contractor: Development/Subdivision/Job: Chedworth Properties Ltd / Online Contractors Greenhill Park

S&L Apr-21

Stage: Stage 15

| Plan ID        | Dwnstr Asset ID | Street Name | Street<br>Type | Physical Location (where necessary) | Pipe<br>Diameter<br>(mm) | Pipe<br>Length<br>(m) | Pipe Material | Invert<br>Level<br>Upstr<br>(m) | Invert<br>Level<br>Dwnstr<br>(m) | Easting<br>Coordinate<br>Inlet | Northing<br>Coordinate<br>Inlet | Easting<br>Coordinate<br>Outlet | Northing<br>Coordinate<br>Outlet | Service Status | Install Date | Asset Value | Comments          |
|----------------|-----------------|-------------|----------------|-------------------------------------|--------------------------|-----------------------|---------------|---------------------------------|----------------------------------|--------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------|--------------|-------------|-------------------|
| 21879-M-15-SW1 | CP 101          | GOSSET      | AVENUE         | BERM                                | 100                      | 91.6                  | NOVA          | 39.02                           | 38.41                            |                                |                                 |                                 |                                  | N              | Dec-20       | \$4,677     |                   |
| 21879-M-15-SW1 | CP 102          | GOSSET      | AVENUE         | BERM                                | 100                      | 35.1                  | NOVA          | 38.42                           | 38.06                            |                                |                                 |                                 |                                  | N              | Dec-20       | \$1,792     | EXISTING CATCHPIT |
| 21879-M-15-SW1 | CP 103          | GOSSET      | AVENUE         | BERM                                | 100                      | 36.7                  | NOVA          | 38.60                           | 37.75                            |                                |                                 |                                 |                                  | N              | Dec-20       | \$1,874     | EXISTING CATCHPIT |
| 21879-M-15-SW1 | CP 109          | COULDSACK   | AVENUE         | BERM                                | 100                      | 125.8                 | NOVA          | 39.36                           | 38.71                            |                                |                                 |                                 |                                  | N              | Dec-20       | \$6,423     |                   |
| 21879-M-15-SW1 | CP SP 22        | COULDSACK   | AVENUE         | BERM                                | 100                      | 112.4                 | NOVA          | 39.36                           | 38.84                            |                                |                                 |                                 |                                  | N              | Dec-20       | \$5,739     |                   |
| 21879-M-15-SW1 | CP SP 23        | COULDSACK   | AVENUE         | BERM                                | 100                      | 27.2                  | NOVA          | 38.86                           | 38.43                            |                                |                                 |                                 |                                  | N              | Dec-20       | \$1,389     | EXISTING CATCHPIT |
| 21879-M-15-SW1 | CP SP 24        | COULDSACK   | AVENUE         | BERM                                | 100                      | 27.7                  | NOVA          | 39.00                           | 38.12                            |                                |                                 |                                 |                                  | N              | Dec-20       | \$1,414     | EXISTING CATCHPIT |
| 21879-M-15-SW1 | DCP 111         | GOSSET      | AVENUE         | BERM                                | 100                      | 78.7                  | NOVA          | 38.92                           | 38.26                            |                                |                                 |                                 |                                  | N              | Dec-20       | \$4,018     | FUTURE CATCHPIT   |
|                |                 |             |                |                                     |                          |                       |               |                                 |                                  |                                |                                 |                                 |                                  |                |              |             |                   |

| As Built Datasheet (to accompany As Built Plans) | Waikato Regional ITS       |
|--|----------------------------|
| WASTEWATER MANHOLES                              | Form Version 1 - July 2017 |

Developer/Contractor: Chedworth Properties Ltd / Online Contractors

Prepared by: S&L

Development/Subdivision/Job:

Greenhill Park

Date: Apr-21

Stage: Stage 15

(North Rim) (Centre) (Centre)

| Plan ID        | Manhole ID | Property ID (Lot No.<br>or Address) | Street Name | Street Type | Lid Level<br>(m) | Invert Level<br>(m) | MH<br>Width/Diam<br>(mm) | Easting Coordinate | Northing<br>Coordinate | Service<br>Status | Install Date | Asset Value | Comments  |
|----------------|------------|-------------------------------------|-------------|-------------|------------------|---------------------|--------------------------|--------------------|------------------------|-------------------|--------------|-------------|---|
| 21879-M-15-WW1 | WWMH 18.2  | LOT 707                             | N/A         | N/A         | TBC              | 35.43               | 1050                     | 447305.55          | 702830.11              | E                 | Nov-20       | N/A         | EXISTING MH FROM STAGE 13 (S&L Ref WWMH 18.2)<br>LID LEVEL TO BE PROVIDED IN STAGE 14 AREA M.<br>INVERT LEVEL AMENDED FROM STAGE 13 AREA M. |
| 21879-M-15-WW1 | WWMH 20.1  | LOT 415                             | GOSSETT     | AVENUE      | 39.12            | 37.51               | 1050                     | 447334.98          | 702932.06              | N                 | Nov-20       | \$2,448     |   |
| 21879-M-15-WW1 | WWMH 20.2  | LOT 431                             | GOSSETT     | AVENUE      | 39.52            | 36.47               | 1050                     | 447369.03          | 702858.69              | N                 | Nov-20       | \$4,081     |   |
| 21879-M-15-WW1 | WWMH 21.1  | LOT 424                             | COULDSACK   | AVENUE      | 39.56            | 38.11               | 1050                     | 447392.66          | 702956.41              | N                 | Nov-20       | \$1,903     |   |
| 21879-M-15-WW1 | WWMH 21.2  | LOT 426                             | COULDSACK   | AVENUE      | 39.96            | 37.21               | 1050                     | 447426.75          | 702893.25              | N                 | Nov-20       | \$4,081     |   |
| 21879-M-15-WW1 | WWMH 21.3  | LOT 428                             | COULDSACK   | AVENUE      | 39.78            | 36.98               | 1050                     | 447404.72          | 702878.29              | N                 | Nov-20       | \$4,081     |   |
|                |            |                                     |             |             |                  |                     |                          |                    |                        |                   |              |             |   |
|                |            |                                     |             |             |                  |                     |                          |                    |                        |                   |              |             |   |

| As Built Datasheet (to accompany As Built Plans) |
|--|
| WASTEWATER PIPELINES                             |

Waikato Regional ITS Form Version 1 - July 2017

Developer/Contractor:

Chedworth Properties Ltd / Online Contractors

Prepared by: S&L

Date: Apr-21

Development/Subdivision/Job: Stage:

Greenhill Park Stage 15

| Plan ID        | Upstr MH/ Asset<br>ID | Dwnstr MH/ Asset<br>ID | Street Name | Street<br>Type | Physical Location (where necessary) | Pipe Diameter<br>(mm) | Pipe<br>Length<br>(m) | Pipe Material | Joint Type | Invert<br>Level Upstr<br>(m) | Invert<br>Level<br>Dwnstr<br>(m) | Service<br>Status | Install Date | Asset Value | Comments |
|----------------|-----------------------|------------------------|-------------|----------------|-------------------------------------|-----------------------|-----------------------|---------------|------------|------------------------------|----------------------------------|-------------------|--------------|-------------|----------|
| 21879-M-15-WW1 | WWMH 20.2             | WWMH 18.2              | GOSSET      | AVENUE         | ROADWAY                             | 150                   | 69.6                  | uPVC SN16     | RR         | 36.47                        | 35.50                            | N                 | Nov-20       | \$9,248     |          |
| 21879-M-15-WW1 | WWMH 20.1             | WWMH 20.2              | GOSSET      | AVENUE         | ROADWAY                             | 150                   | 80.9                  | uPVC SN16     | RR         | 37.51                        | 36.52                            | N                 | Nov-20       | \$15,331    |          |
| 21879-M-15-WW1 | WWMH 21.3             | WWMH 20.2              | COULDSACK   | AVENUE         | ROADWAY                             | 150                   | 40.7                  | uPVC SN16     | RR         | 36.98                        | 36.50                            | N                 | Nov-20       | \$10,052    |          |
| 21879-M-15-WW1 | WWMH 21.2             | WWMH 21.3              | COULDSACK   | AVENUE         | ROADWAY                             | 150                   | 26.6                  | uPVC SN16     | RR         | 37.21                        | 37.02                            | N                 | Nov-20       | \$6,484     |          |
| 21879-M-15-WW1 | WWMH 21.1             | WWMH 21.2              | COULDSACK   | AVENUE         | ROADWAY                             | 150                   | 71.8                  | uPVC SN16     | RR         | 38.11                        | 37.23                            | N                 | Nov-20       | \$13,897    |          |
|                |                       |                        |             |                |                                     |                       |                       |               |            |                              |                                  |                   |              |             |          |
|                |                       |                        |             |                |                                     |                       |                       |               |            |                              |                                  |                   |              |             |          |
|                |                       |                        |             |                |                                     |                       |                       |               |            |                              |                                  |                   |              |             |          |
|                |                       |                        |             |                |                                     |                       |                       |               |            |                              |                                  |                   |              |             |          |

#### As Built Datasheet (to accompany As Built Plans) WASTEWATER CONNECTION/SERVICE LINE

Waikato Regional ITS

Form Version 1 - July 2017

Developer/Contractor: Development/Subdivision/Job:

Stage:

Chedworth Properties Ltd / Online Contractors

Greenhill Park

Stage 15

Prepared by: Date:

S&L Apr-21

| Plan ID        | Upstr MH/ Asset<br>ID | Dwnstr MH/<br>Asset ID | Property ID (Lot No. or Address) | Street Name | Street<br>Type | Physical Location (where necessary) | Service<br>Pipe Diam<br>(mm) | Service<br>Pipe<br>Length<br>(m) | Service Pipe<br>Material | Invert Level At Private End (m) OR Depth (m) | Easting<br>Coordinate | Northing<br>Coordinate | Distance<br>from left<br>(LB) or<br>right (RB)<br>boundary<br>(m) | Distance<br>from front<br>(FB) or<br>back (BB)<br>boundary<br>(m) | Service<br>Status | Install Date | Asset Value | Comments |
|----------------|-----------------------|------------------------|----------------------------------|-------------|----------------|-------------------------------------|------------------------------|----------------------------------|--------------------------|--|-----------------------|------------------------|---|---|-------------------|--------------|-------------|----------|
| 21879-M-15-WW1 | WWMH 20.2             | WWMH 18.2              | LOT 407                          | GOSSET      | AVENUE         | BERM                                | 100                          | 9.6                              | uPVC SN16                | 1.2  | 447341.41             | 702856.75              | 1.1RB   | 1.2FB   | N                 | Nov-20       | \$648       |          |
| 21879-M-15-WW1 | WWMH 20.2             | WWMH 18.2              | LOT 408                          | GOSSET      | AVENUE         | BERM                                | 100                          | 4.9                              | uPVC SN16                | 1.2  | 447344.46             | 702858.28              | 2.3LB   | 1.3FB   | N                 | Nov-20       | \$333       |          |
| 21879-M-15-WW1 | WWMH 20.1             | WWMH 20.2              | LOT 409                          | GOSSET      | AVENUE         | BERM                                | 100                          | 7.6                              | uPVC SN16                | 1.2  | 447347.63             | 702886.65              | 0.6LB   | 0.9FB   | N                 | Nov-20       | \$513       |          |
| 21879-M-15-WW1 | WWMH 20.1             | WWMH 20.2              | LOT 410                          | GOSSET      | AVENUE         | BERM                                | 100                          | 5.8                              | uPVC SN16                | 1.2  | 447338.13             | 702906.10              | 1.8RB   | 0.8FB   | Ν                 | Nov-20       | \$392       |          |
| 21879-M-15-WW1 | WWMH 20.1             | WWMH 20.2              | LOT 411                          | GOSSET      | AVENUE         | BERM                                | 100                          | 8.3                              | uPVC SN16                | 1.2  | 447336.62             | 702908.93              | 1.4LB   | 0.9FB   | N                 | Nov-20       | \$560       |          |
| 21879-M-15-WW1 | -                     | WWMH 20.1              | LOT 412                          | GOSSET      | AVENUE         | BERM                                | 100                          | 5.6                              | uPVC SN16                | 1.2  | 447326.50             | 702929.81              | 0.6RB   | 1.6FB   | N                 | Nov-20       | \$378       |          |
| 21879-M-15-WW1 | -                     | WWMH 20.1              | LOT 413                          | GOSSET      | AVENUE         | BERM                                | 100                          | 8.8                              | uPVC SN16                | 1.2  | 447326.18             | 702932.67              | 2.2LB   | 0.8FB   | N                 | Nov-20       | \$594       |          |
| 21879-M-15-WW1 | -                     | WWMH 20.1              | LOT 414                          | GOSSET      | AVENUE         | BERM                                | 100                          | 10.3                             | uPVC SN16                | 1.2  | 447338.25             | 702941.83              | 1.5RB   | 0.9FB   | Ν                 | Nov-20       | \$695       |          |
| 21879-M-15-WW1 | -                     | WWMH 20.1              | LOT 415                          | GOSSET      | AVENUE         | BERM                                | 100                          | 2.6                              | uPVC SN16                | 1.2  | 447339.61             | 702940.33              | 0.4LB   | 1.6FB   | N                 | Nov-20       | \$176       |          |
| 21879-M-15-WW1 | WWMH 20.1             | WWMH 20.2              | LOT 416                          | GOSSET      | AVENUE         | BERM                                | 100                          | 7.1                              | uPVC SN16                | 1.2  | 447349.10             | 702917.45              | 1.4RB   | 0.9FB   | N                 | Nov-20       | \$479       |          |
| 21879-M-15-WW1 | WWMH 20.1             | WWMH 20.2              | LOT 417                          | GOSSET      | AVENUE         | BERM                                | 100                          | 3.3                              | uPVC SN16                | 1.2  | 447350.20             | 702915.03              | 1.3LB   | 0.9FB   | N                 | Nov-20       | \$223       |          |
| 21879-M-15-WW1 | WWMH 20.1             | WWMH 20.2              | LOT 418                          | GOSSET      | AVENUE         | BERM                                | 100                          | 7.4                              | uPVC SN16                | 1.2  | 447360.19             | 702894.69              | 1.1RB   | 0.9FB   | N                 | Nov-20       | \$500       |          |
| 21879-M-15-WW1 | WWMH 21.3             | WWMH 20.2              | LOT 419                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 9.7                              | uPVC SN16                | 1.2  | 447387.99             | 702880.10              | 0.8RB   | 1.1FB   | N                 | Nov-20       | \$655       |          |
| 21879-M-15-WW1 | WWMH 21.3             | WWMH 20.2              | LOT 420                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 3.8                              | uPVC SN16                | 1.2  | 447390.28             | 702881.63              | 2.0LB   | 1.3FB   | N                 | Nov-20       | \$257       |          |
| 21879-M-15-WW1 | WWMH 21.1             | WWMH 21.2              | LOT 421                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 3.6                              | uPVC SN16                | 1.2  | 447408.16             | 702918.27              | 1.8RB   | 1.0FB   | N                 | Nov-20       | \$243       |          |
| 21879-M-15-WW1 | WWMH 21.1             | WWMH 21.2              | LOT 422                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 5.6                              | uPVC SN16                | 1.2  | 447406.09             | 702919.76              | 0.5LB   | 2.1FB   | N                 | Nov-20       | \$378       |          |
| 21879-M-15-WW1 | WWMH 21.1             | WWMH 21.2              | LOT 423                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 4.7                              | uPVC SN16                | 1.2  | 447394.03             | 702944.03              | 0.7RB   | 1.2FB   | N                 | Nov-20       | \$317       |          |
| 21879-M-15-WW1 | -                     | WWMH 21.1              | LOT 424                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 4.1                              | uPVC SN16                | 1.2  | 447387.45             | 702954.84              | 1.0RB   | 2.3FB   | N                 | Nov-20       | \$277       |          |
| 21879-M-15-WW1 | -                     | WWMH 21.2              | LOT 425                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 5.8                              | uPVC SN16                | 1.2  | 447387.15             | 702958.20              | 2.1LB   | 1.2FB   | N                 | Nov-20       | \$392       |          |
| 21879-M-15-WW1 | -                     | WWMH 21.2              | LOT 426                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 8.3                              | uPVC SN16                | 1.2  | 447434.05             | 702889.37              | 1.2LB   | 2.1FB   | N                 | Nov-20       | \$560       |          |
| 21879-M-15-WW1 | WWMH 21.2             | WWMH 21.3              | LOT 427                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 5.3                              | uPVC SN16                | 1.2  | 447411.35             | 702876.40              | 1.5RB   | 0.7FB   | N                 | Nov-20       | \$358       |          |
| 21879-M-15-WW1 | WWMH 21.3             | WWMH 20.2              | LOT 428                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 4.4                              | uPVC SN16                | 1.2  | 447400.17             | 702869.25              | 1.7RB   | 1.4FB   | N                 | Nov-20       | \$297       |          |
| 21879-M-15-WW1 | WWMH 21.3             | WWMH 20.2              | LOT 429                          | COULDSACK   | AVENUE         | BERM                                | 100                          | 5.6                              | uPVC SN16                | 1.2  | 447397.96             | 702868.22              | 0.7LB   | 1.2FB   | N                 | Nov-20       | \$378       |          |
| 21879-M-15-WW1 | WWMH 21.3             | WWMH 20.2              | LOT 430                          | GOSSET      | AVENUE         | BERM                                | 100                          | 5.7                              | uPVC SN16                | 1.2  | 447375.60             | 702855.84              | 1.3RB   | 1.5FB   | N                 | Nov-20       | \$385       |          |
| 21879-M-15-WW1 | WWMH 21.3             | WWMH 20.2              | LOT 431                          | GOSSET      | AVENUE         | BERM                                | 100                          | 4.6                              | uPVC SN16                | 1.2  | 447373.31             | 702854.42              | 1.4LB   | 1.8FB   | N                 | Nov-20       | \$311       |          |
| 21879-M-15-WW1 | WWMH 20.2             | WWMH 18.2              | LOT 432                          | GOSSET      | AVENUE         | BERM                                | 100                          | 2.9                              | uPVC SN16                | 1.2  | 447352.58             | 702845.21              | 1.6RB   | 0.9FB   | N                 | Nov-20       | \$196       |          |
| 21879-M-15-WW1 | WWMH 20.2             | WWMH 18.2              | LOT 433                          | GOSSET      | AVENUE         | BERM                                | 100                          | 6.0                              | uPVC SN16                | 1.2  | 447350.86             | 702844.00              | 0.4LB   | 1.2FB   | N                 | Nov-20       | \$405       |          |

| As Built Datasheet (to accompany As Built Plans) |   |              |        | Waikato | Regional ITS         |
|--|---|--------------|--------|---------|----------------------|
| WATER HYDRANTS                                   |   |              |        | Form V  | ersion 1 - July 2017 |
| Developer/Contractor:                            | Chedworth Properties Ltd / Online Contractors | Prepared by: | S&L    |         |                      |
| Development/Subdivision/Job:                     | Greenhill Park                                | Date:        | Apr-21 |         |                      |
| Stage:   | Stage 15                                      |              |        |         |                      |

Stage 15

| Plan ID       | Hydrant ID | Pipe ID | Property ID (Lot No. or<br>Address) | Street Name | Street Type | Hydrant Size<br>(mm) | Physical Location (where necessary) | Easting<br>Coordinate | Northing<br>Coordinate | Service<br>Status | Install Date | Asset Value | Comments |
|---------------|------------|---------|-------------------------------------|-------------|-------------|----------------------|-------------------------------------|-----------------------|------------------------|-------------------|--------------|-------------|----------|
| 21879-M-15-W1 | FH1        | RM3     | LOT 407                             | GOSSET      | AVENUE      | 150                  | FOOTPATH                            | 447339.35             | 702853.15              | N                 | Feb-21       | \$2,557     |          |
| 21879-M-15-W1 | FH2        | RM6     | LOT 426                             | COULDSACK   | AVENUE      | 150                  | BERM                                | 447428.83             | 702889.66              | N                 | Feb-21       | \$2,557     |          |
|               |            |         |                                     |             |             |                      |                                     |                       |                        |                   |              |             |          |
|               |            |         |                                     |             |             |                      |                                     |                       |                        |                   |              |             |          |
|               |            |         |                                     |             |             |                      |                                     |                       |                        |                   |              |             |          |
|               |            |         |                                     |             |             |                      |                                     |                       |                        |                   |              |             |          |
|               |            |         |                                     |             |             |                      |                                     |                       |                        |                   |              |             |          |
|               |            |         |                                     |             |             |                      |                                     |                       |                        |                   |              |             |          |

# As Built Datasheet (to accompany As Built Plans) WATER PIPELINES

Waikato Regional ITS

Form Version 1 - July 2017

**Developer/Contractor:** Chedworth Properties Ltd / Online Contractors

Prepared by:

Date:

S & L

Apr-21

Development/Subdivision/Job:

Stage:

Greenhill Park

Stage 15

| Plan ID       | Pipe ID | Pipe Diameter (mm) | Pipe Length<br>(m) | Laying Depth (m) | Pipe Material     | Joint Type | Service Status | Install Date | Asset Value | Comments |
|---------------|---------|--------------------|--------------------|------------------|-------------------|------------|----------------|--------------|-------------|----------|
| 21879-M-15-W1 | RM1     | 150                | 7.1                | 1.2              | PVC-M PN12        | RRJ        | N              | Jan-21       | \$362       |          |
| 21879-M-15-W1 | RM2     | 150                | 39.0               | 1.2              | PVC-M PN12        | RRJ        | N              | Jan-21       | \$1,989     |          |
| 21879-M-15-W1 | RM3     | 150                | 5.7                | 1.2              | PVC-M PN12        | RRJ        | N              | Jan-21       | \$291       |          |
| 21879-M-15-W1 | RM4     | 150                | 10.2               | 1.2              | PVC-M PN12        | RRJ        | N              | Jan-21       | \$520       |          |
| 21879-M-15-W1 | RM5     | 150                | 14.3               | 1.2              | PVC-M PN12        | RRJ        | N              | Jan-21       | \$729       |          |
| 21879-M-15-W1 | RM6     | 150                | 103.3              | 1.2              | PVC-M PN12        | RRJ        | N              | Jan-21       | \$5,268     |          |
|               |         |                    |                    |                  |                   |            |                |              |             |          |
| 21879-M-15-W1 | RM7     | 63                 | 10.9               | 1.2              | PE80 SDR11 PN12.5 | RRJ        | N              | Jan-21       | \$240       |          |
| 21879-M-15-W1 | RM8     | 63                 | 65.4               | 1.2              | PE80 SDR11 PN12.5 | RRJ        | N              | Jan-21       | \$1,439     |          |
| 21879-M-15-W1 | RM9     | 63                 | 12.8               | 1.2              | PE80 SDR11 PN12.5 | RRJ        | N              | Jan-21       | \$282       |          |
| 21879-M-15-W1 | RM10    | 63                 | 60.8               | 1.2              | PE80 SDR11 PN12.5 | RRJ        | N              | Jan-21       | \$1,338     |          |
| 21879-M-15-W1 | RM11    | 63                 | 13.2               | 1.2              | PE80 SDR11 PN12.5 | RRJ        | N              | Jan-21       | \$290       |          |
| 21879-M-15-W1 | RM12    | 63                 | 78.9               | 1.2              | PE80 SDR11 PN12.5 | RRJ        | N              | Jan-21       | \$1,736     |          |
|               |         |                    |                    |                  |                   |            |                |              |             |          |

Infrastructure Technical Specification Section 1 - General

#### As Built Datasheet (to accompany As Built Plans)

Waikato Regional ITS

Form Version 1 - July 2017

WATER CONNECTION/SERVICE LINE

Chedworth Properties Ltd / Online Contractors

Prepared by: S & L Date: Apr-21

Development/Subdivision/Job:

Developer/Contractor:

Stage:

Greenhill Park Stage 15

| Plan ID       | Pipe ID | Property ID (Lot No. or<br>Address) | Street Name | Street<br>Type | Physical Location (where necessary) | Service<br>Pipe Diam<br>(mm) | Service<br>Pipe<br>Length<br>(m) | Service Pipe<br>Material | Easting<br>Coordinate | Northing<br>Coordinate | Distance<br>from left<br>(LB) or right<br>(RB)<br>boundary<br>(m) | Meter<br>Installed<br>(Y/N) | Service<br>Status | Install Date | Asset Value | Comments                              |
|---------------|---------|-------------------------------------|-------------|----------------|-------------------------------------|------------------------------|----------------------------------|--------------------------|-----------------------|------------------------|---|-----------------------------|-------------------|--------------|-------------|---------------------------------------|
|               |         | LOT 407                             |             |                |                                     |                              |                                  |                          |                       |                        |   |                             |                   |              |             | TO BE PROVIDED WITH STAGE 14 ASBUILTS |
| 21879-M-15-W1 | RM1     | LOT 408                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.5                              | MDPE                     | 447349.87             | 702885.40              | 1.5RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM1     | LOT 409                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.6                              | MDPE                     | 447344.41             | 702896.28              | 1.3RB   | Ν                           | Ν                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM1     | LOT 410                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.7                              | MDPE                     | 447339.00             | 702907.56              | 0.8RB   | Ν                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM1     | LOT 411                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.7                              | MDPE                     | 447333.73             | 702918.72              | 0.8RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM1     | LOT 412                             | GOSSET      | AVENUE         | BERM                                | 25                           | 2.6                              | MDPE                     | 447329.62             | 702928.06              | 3.4RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | EX RM6  | LOT 413                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.7                              | MDPE                     | 447323.71             | 702942.02              | 1.8RB   | N                           | N                 | Mar-21       | \$705       | PIPE ID IS FROM STAGE 12 ASBUILTS     |
| 21879-M-15-W1 | EX RM7  | LOT 414                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.7                              | MDPE                     | 447332.86             | 702950.82              | 1.2LB   | Ν                           | Ν                 | Mar-21       | \$705       | PIPE ID IS FROM STAGE 12 ASBUILTS     |
| 21879-M-15-W1 | RM7     | LOT 415                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.9                              | MDPE                     | 447338.08             | 702938.67              | 1.3LB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM8     | LOT 416                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.9                              | MDPE                     | 447343.07             | 702927.24              | 0.4LB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM8     | LOT 417                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.6                              | MDPE                     | 447349.10             | 702914.29              | 1.4LB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM8     | LOT 418                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.6                              | MDPE                     | 447354.61             | 702903.03              | 1.2LB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM10    | LOT 419                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.6                              | MDPE                     | 447376.84             | 702872.43              | 14.2RB  | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM10    | LOT 420                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.6                              | MDPE                     | 447390.92             | 702880.11              | 1.8LB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM12    | LOT 421                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.7                              | MDPE                     | 447418.43             | 702904.11              | 5.8LB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM12    | LOT 422                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.4                              | MDPE                     | 447401.52             | 702933.16              | 1.3RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM12    | LOT 423                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.4                              | MDPE                     | 447395.58             | 702944.60              | 0.8RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM12    | LOT 424                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.5                              | MDPE                     | 447389.75             | 702956.62              | 0.4RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM12    | LOT 425                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.6                              | MDPE                     | 447385.18             | 702966.33              | 2.4RB   | N                           | Ν                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM6     | LOT 426                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.3                              | MDPE                     | 447431.83             | 702890.92              | 2.1LB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM6     | LOT 427                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 1.3                              | MDPE                     | 447411.25             | 702877.79              | 2.1RB   | N                           | Ν                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM6     | LOT 428                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.9                              | MDPE                     | 447398.96             | 702870.61              | 1.3RB   | N                           | Ν                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM6     | LOT 429                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 1.8                              | MDPE                     | 447389.07             | 702865.33              | 3.6RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM6     | LOT 430                             | COULDSACK   | AVENUE         | BERM                                | 25                           | 0.9                              | MDPE                     | 447375.37             | 702857.86              | 2.0RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM6     | LOT 431                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.7                              | MDPE                     | 447363.36             | 702851.93              | 1.8RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM6     | LOT 432                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.7                              | MDPE                     | 447352.62             | 702846.74              | 2.3RB   | N                           | N                 | Mar-21       | \$705       |                                       |
| 21879-M-15-W1 | RM6     | LOT 433                             | GOSSET      | AVENUE         | BERM                                | 25                           | 0.8                              | MDPE                     | 447339.08             | 702840.85              | 1.3RB   | N                           | N                 | Mar-21       | \$705       |                                       |
|               |         |                                     |             |                |                                     |                              |                                  |                          |                       |                        |   |                             |                   |              |             |                                       |

Infrastructure Technical Specifications Section 1 - General

| As Built Datasheet (to accompany As Built Plans) | Waikato Regional ITS       |
|--|----------------------------|
| WATER VALVES                                     | Form Version 1 - July 2017 |

Developer/Contractor: Chedworth Properties Ltd / Online Contractors

Development/Subdivision/Job: Greenhill Park

Stage: Stage 15

| Prepared by: | S&L    |
|--------------|--------|
| Date:        | Apr-21 |
|              |        |

|               |          |         |                                     |             |             |                    |                    |                       |                        |                   |              | 1           |          |
|---------------|----------|---------|-------------------------------------|-------------|-------------|--------------------|--------------------|-----------------------|------------------------|-------------------|--------------|-------------|----------|
| Plan ID       | Valve ID | Pipe ID | Property ID (Lot No. or<br>Address) | Street Name | Street Type | Valve Size<br>(mm) | Valve Manufacturer | Easting<br>Coordinate | Northing<br>Coordinate | Service<br>Status | Install Date | Asset Value | Comments |
| 21879-M-15-W1 | SV1      | RM1     | LOT 408                             | GOSSET      | AVENUE      | 150                | HAWLE              | 447354.83             | 702877.43              | N                 | Jan-21       | \$2,200     |          |
| 21879-M-15-W1 | SV2      | RM2     | LOT 407                             | GOSSET      | AVENUE      | 150                | HAWLE              | 447340.42             | 702853.54              | N                 | Jan-21       | \$2,200     |          |
| 21879-M-15-W1 | SV3      | RM4     | LOT 407                             | GOSSET      | AVENUE      | 150                | HAWLE              | 447336.45             | 702851.98              | N                 | Jan-21       | \$2,200     |          |
| 21879-M-15-W1 | SV4      | RM3     | LOT 407                             | GOSSET      | AVENUE      | 150                | HAWLE              | 447338.01             | 702851.16              | N                 | Jan-21       | \$2,200     |          |
| 21879-M-15-W1 | SV5      | RM5     | LOT 433                             | GOSSET      | AVENUE      | 150                | HAWLE              | 447342.33             | 702843.14              | N                 | Jan-21       | \$2,200     |          |
|               |          |         |                                     |             |             |                    |                    |                       |                        |                   |              |             |          |
| 21879-M-15-W1 | PV1      | RM7     | LOT 415                             | GOSSET      | AVENUE      | 63                 | HAWLE              | 447337.51             | 702937.56              | N                 | Jan-21       | \$930       |          |
| 21879-M-15-W1 | PV2      | RM8     | LOT 419                             | GOSSET      | AVENUE      | 63                 | HAWLE              | 447366.52             | 702879.03              | N                 | Jan-21       | \$930       |          |
| 21879-M-15-W1 | PV3      | RM9     | LOT 419                             | GOSSET      | AVENUE      | 63                 | HAWLE              | 447367.22             | 702877.56              | N                 | Jan-21       | \$930       |          |
| 21879-M-15-W1 | PV4      | RM10    | LOT 421                             | COULDSACK   | AVENUE      | 63                 | HAWLE              | 447417.77             | 702895.71              | N                 | Jan-21       | \$930       |          |
| 21879-M-15-W1 | PV5      | RM12    | LOT 421                             | COULDSACK   | AVENUE      | 63                 | HAWLE              | 447419.22             | 702896.99              | N                 | Jan-21       | \$930       |          |
| 21879-M-15-W1 | PV6      | RM12    | LOT 425                             | COULDSACK   | AVENUE      | 63                 | HAWLE              | 447385.24             | 702967.04              | N                 | Jan-21       | \$930       |          |
|               |          |         |                                     |             |             |                    |                    |                       |                        |                   |              |             |          |
|               |          |         |                                     |             |             |                    |                    |                       |                        |                   |              |             |          |
|               |          |         |                                     |             |             |                    |                    |                       |                        |                   |              |             |          |