

8 January 2026

Phase 3.9-3.11 Allotments  
Zuccoli, City of Palmerston

# LEVEL 1 REPORT

BMD Urban

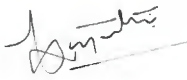


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## 1.0 INTRODUCTION

CMW Geosciences (CMW) was commissioned by BMD Urban to provide Level 1 inspection, supervision and testing services for Phase 3.9-3.11 Allotments in Zuccoli, City of Palmerston as shown in the earthworks site map in **Figure 1** and attached as Appendix A, in accordance with AS3798-2007 'Guidelines on earthworks for commercial and residential developments' for the placement of fill.

The client requires this assessment for the proposed subdivision subgrade foundations of Phase 3.9-3.11 Allotments. It is understood that this development consists of approximately 91 residential lots, with street access provided via internal subdivision roads connecting to Raffles Road to the east of the subdivision. Drawing set titled Zuccoli Phases 3.9-3.11 Bulk Earthworks Drgs was provided, alongside the Northern Territory Subdivision Development Guidelines, and formed the basis of this assessment.

Supervision and testing for the earthworks were undertaken between 14/08/2025 and 24/10/2025. Level 1 supervision was applicable only to the subdivision lots and specific deep fill areas along Aztec Court and the embankment fill areas supporting the proposed future walking path. Fill placed below pavement layers was tested under the direction of the client as part of Level 2 testing.

The client requires this assessment for the proposed residential development at the Phase 3.9-3.11 Allotments as highlighted in the aerial image in **Figure 1** below.

Figure 1: Phase 3.9-3.11 Allotments Site Location



### 1.1 Project Commencement/Provided Documentation

### 1.2 Previous Works/Provided Geotechnical Information

CMW was provided with two geotechnical reports relating to previous development within the site prior to the current earthworks, namely *Zuccoli Subdivision – Lot A Geotechnical Desktop Study* (Coffey Geotechnics, Report No. GEOTPARA10008AA-AA, April 2010) and the *Zuccoli Subdivision – Lot A Geotechnical Site*

*Investigation Report* (Coffey Geotechnics, Report No. GEOTPARA10008AB-AB, July 2010). These reports provide indicative site classifications based on natural ground conditions by terrain unit across the broader Lot A development. It is noted from historical aerial imagery that site clearing commenced from approximately 2012, presumably associated with the development of adjacent subdivision stages. The imagery indicates that portions of the site have been used for various storage activities over time. As a result, the natural topsoil has been disturbed, particularly within the central portion of the site, generally between the Aztec Court entrance and Radford Road.

It is expected that the client completed due diligence to determine if any previous structures or earthworks had occurred prior. **Figure 2** below outlines the various stages of development between 2012 and 2025.

Figure 2: Historical aerial imagery (2012, 2014, 2024 and 2025)



The works involved approximately 21,400 m<sup>3</sup> of fill, with residential lots totalling approximately 12.5 ha in area, lot sizes generally ranging from 300 m<sup>2</sup> to 800 m<sup>2</sup>, and cut and fill depths varying across the site from approximately -1.5 m to +3.0 m.

A previous geotechnical report has been provided for the broader Zuccoli development; however, a site classification specific to the subject earthworks area was not defined at this stage. While the 2010 reports assign site classifications (including Class S, conditional Class M, and Class P) based on natural soil profiles and terrain units, these classifications are not specific to the current earthworks footprint or post-earthworks ground profile and therefore cannot be directly adopted for the current works. The Zuccoli Subdivision - Lot A Geotechnical Desktop Study (Coffey Geotechnics, Report No. GEOTPARA10008AA-AA, Rev 0, dated April 2010) was made available for reference; however, this report relates to the broader future development stages and does not specifically incorporate the current earthworks area.

### 1.3 Specification Requirements

Filling was carried out in accordance with AS 3798-2007, Clause 7.1.1.b and the applicable Subdivision Development Guidelines for the project.

The specification requirements included that all fill be placed and compacted in layers not exceeding **250 mm** loose thickness, to achieve a minimum dry density ratio of **95%** of the maximum dry density, as determined in accordance with AS 1289.5.2.1 (Modified compaction).

A summary of the site material specification requirements, including the applicable testing and acceptance criteria in accordance with AS 3798-2007 and the Subdivision Development Guidelines, is provided in Table 1 below. The material required for fill placement in the allotments was General Fill.

Table 1: Summary of specification requirements

Material Type	Test type	Conformance Minimum	Conformance Maximum
<b>In situ Subgrade</b>	Proof rol	No Visible deflection	-
<b>General Fill</b>	Maximum particle size (mm)	-	75
	Plasticity Index (%)	-	55
	95% MMDD CBR (%)	10	-
	Compaction MMDD (%)	95	-
<b>Standard Fill</b>	Maximum particle size (mm) (subgrade)	-	50
	Plasticity Index (%)	2	15
	95% MMDD CBR (%)	5	-
	Compaction MMDD (%)	95	-
<b>Select Fill</b>	PP 75mm (%)	-	100
	PP 9.5mm (%)	30	100
	PP 2.36mm (%)	15	65
	PP 0.075 mm (%)	5	25
	Liquid Limit (%)	-	-
	Plasticity Index (%)	2	25
	Linear Shrinkage (%)	2	6
	95% MMDD CBR (%)	15	-
	Compaction MMDD (%)	95	-

Notes

- a. PP – Percent Passing for Particle Size Distribution Test

Volume of testing was applied based on the requirements of AS3798 and *Table 5-1 - Test Frequencies For Soils from Standard Specification for Subdivisions Part 4*, with consultation with the client during the earthworks program.

## 2.0 SUBGRADE PREPARATION

Subgrade preparation included the clearing and removal of topsoil, organics and other deleterious or unsuitable materials.

AS3798 outlines the subgrade preparation to generally include the need for adequate stripping of the site, with no evidence of significant root matter or deleterious organic materials observed to remain post stripping. Generally, this process also includes the removal of:

- Topsoils or organic soils, including severely root affected subsoils.
- Contaminated materials (PFAS, Hydrocarbons, agricultural use, etc.) if present.
- Low or non-plastic silts with dispersive or deleterious properties.

- Uncontrolled fill or fill material that contains deleterious anthropogenic materials (i.e. wood, steel, bricks, plastic). This does not include approved recycled fill materials such as concrete.
- Weak, reactive or moisture softened subgrade materials (may be seasonal, i.e. wet season/dry season, fluctuating water table).

## 2.1 Topsoil Strip & Unsuitable Material Removal

CMW carried out a thorough post-strip inspection of the designated areas over multiple days and confirmed that all topsoil had been completely stripped. Following the inspection, CMW expressed satisfaction with the condition of the areas inspected, noting that they met the required standards. An example of roots directed for removal can be seen in **Figure 3** below.

Figure 3: Minor Surficial Roots and Organics



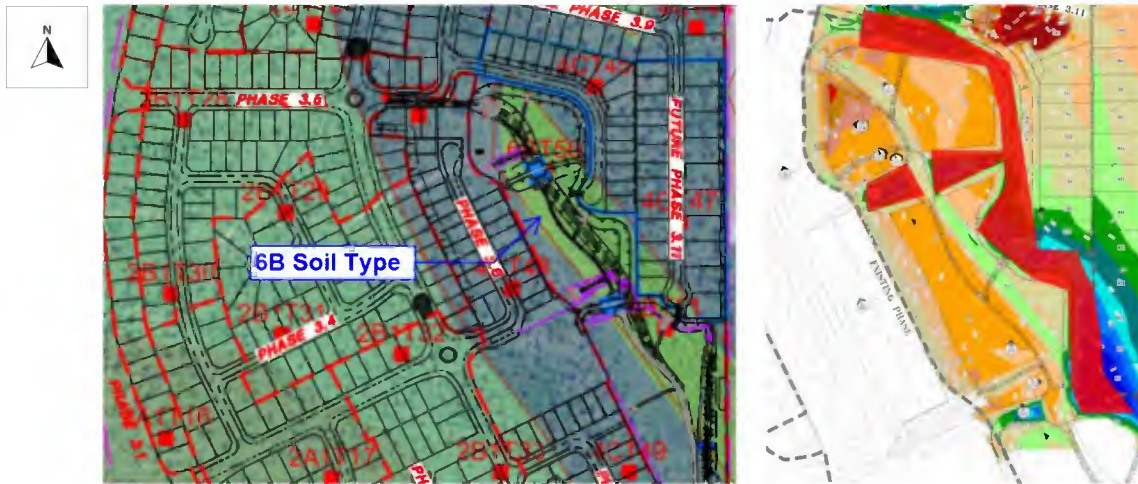
This was followed by approval of the exposed surface by a Geotechnical Engineer, based on proof rolling and visual inspection (refer Section 2.3), following a nominal stripping depth of approximately 150 mm, with some areas requiring deeper treatment due to extensive roots.

### 2.1.1 Low-Strength Ground Area

Previous geotechnical investigations identified a Geotechnical Low-Strength Area corresponding to Terrain Unit 6B. This unit was defined in earlier Coffey geotechnical reports based on terrain mapping and site investigations and is characterised by unfavourable founding conditions. Because the area is naturally low-lying with poor drainage, groundwater is retained within the soil profile, resulting in persistently saturated, low-strength ground, which led to its classification as 6B.

Based on the site inspection and available information, the subsurface conditions are interpreted to comprise predominantly lateritic sandy to silty clayey gravel, with sand, silt, gravel and clay admixtures. **Figure 4** below illustrates the area before stripping of the Low-Strength material spread area (left, highlighted in green) and after stripping to an acceptable level (right, highlighted in red).

Figure 4: Low-Strength material spread area (Left - Green) and After Stripping to an Acceptable Level (Right – Red)



An investigation was undertaken along Aztec Court in areas where low-strength material had been spread between 18/08/2025 and 22/09/2025 to identify any areas requiring remediation. The affected areas were stripped to remove topsoil and roots, and proof rolling was carried out over several days.

Proof rolling identified three major soft spots and several minor soft spots. Minor areas were assessed by DCP testing, confirmed as satisfactory, and rectified on-site as required. The three major soft spots were boxed out and replaced, with DCP testing used to confirm the limits and depth of treatment. Area 1 initially failed proof rolling but was reassessed following remediation and deemed satisfactory once no visible deflection was observed. The materials encountered compromised silty gravelly sand underlining by weathered sandy clay. In-lying areas, the weathered strata were saturated, while in most other areas the material was dry.

The remediated areas measured approximately 10 m × 13 m × 0.3 m (Area 1), 16 m × 15 m × 0.7 m (Area 2), and 6 m × 15 m × 0.3 m (Area 3). **Figure 5** below shows the locations and approximate extents of the remediation areas identified across the site.

Dynamic Cone Penetrometer (DCP) testing was undertaken at selected locations within areas where low-strength material had been spread and subsequently stripped, including areas that failed proof rolling. The extent of the low-strength material spread was generally from Aztec Court, approximately from Lot 794, extending southeast along Aztec Court to approximately Lots 779 to 810, located along the western boundaries of these lots.

Within the individual lot areas, DCP testing was initially undertaken prior to the placement of fill. In mid-sections that were not within the lots but adjacent to Aztec Court - where fill placement was required - DCP testing was carried out after the areas had been fully stripped to an acceptable level and following completion of proof rolling.

The DCP test results from this assessment are provided in Appendix C.

Figure 5: Remediation Areas



## 2.2 Subgrade Assessment

Specific reference to *4.2.3 Excavation and Subgrade Preparation* is provided in the assessment of subgrade.

The subgrade assessment was undertaken through on-site inspections by a Geotechnical Engineer commencing on 14/08/2025 and continuing over multiple days. Stripping was carried out in stages, progressing from the southern lots towards the eastern and central sections, and from the north-western side towards the northern lots.

After the stripping works outlined in Section 2.1, the surface was proof rolled and insitu density testing was undertaken if the surface was ripped and remediated (recompacted), subsequently confirming that the surface was suitable for the placement of fill. The site visit records included photos and are attached in Appendix B.

**Figure 6** below shows an overview of a section of the site during subgrade assessment following stripping.

Figure 6: Site overview at Subgrade post-strip



### 2.3 Proof Rolling

Proof rolling was undertaken on the subgrade, supervised by the inspecting Geotechnical Engineer. Proof rolling of the subgrade and subsequent layers was visually assessed while tracked with a fully laden water cart. Proof rolling was undertaken over multiple days as works progressed from the southern lots, as noted above. The allotments were deemed satisfactory where no visible deflection was observed during proof rolling. Proof rolling was deemed satisfactory when no visible deflection was observed over the entire area proof rolled. **Figure 7** below shows typical site conditions observed during post-strip proof roll inspection of a section of an allotment.

Figure 7: Post Strip area (left) followed by proof roll inspection



Proof rolling was undertaken on the prepared foundation over multiple days once areas were ready. **Figure 8** outlines the proof rolling undertaken across the site (not exhaustive, some areas were not recorded however were still proof rolled). Proof rolling was considered to pass in all lot areas subject to inspection.

Figure 8: Proof Rolling (dotted red lines)



Final proof rolling was assessed with rollers on the surface of the Level 1 placed fill for each lot at completion, with at least a single pass of the entire area undertaken. No deflection was observed, and the surface was deemed suitable for the subsequent filling works.

### 3.0 FILL PLACEMENT AND CONFORMANCE

#### 3.1 Quality Testing

The provided specification required General Fill to meet **95%** Modified compaction. General Fill required a California Bearing Ratio (CBR) of **10%**, a maximum Plasticity Index (PI) of **15%**, minimum **2%**, and a Weighted Plasticity Index (WPI) not **exceeding 1200**. The results of quality testing are provided below in **Table 2**, with the material sourced from on-site being of a suitable PI range, and an adequate CBR value.

Several stockpiles of site-won material were identified within the works area. General fill material was used for the initial fill placement. Rock material was crushed and reused within designated rock fill areas, while concrete material was crushed, deleterious material removed and reused primarily for verge filling along Aztec Court. Unsuitable material was removed off-site. Other stockpiled materials were reused subject to appropriate management, placement controls, and verification to ensure compliance with the project specifications and Level 1 requirements.

**Table 2** below provides the conformance results for the imported general fill, which was generally a Gravelly Clayey SAND.

Table 2: General Fill Conformance Quality Results

Sample Number	Sample Date	Material	Lot Number	PP 2.36	PP 0.075	Plastic Index	Liquid Limit	Plastic Limit	CBR	WPI
21791/S/25 16693	10/09/2025	Fill	Crushed+Fines	34	12	7	22	15		175.7

21791/S/25-16694	10/09/2025	Fill	Boxed Out Road Material	50	10	10	29	19	50	263.2
21791/S/25-20648	23/10/2025	Fill	Lot 746-748	64	28	14	33	19	45	617.4

Advice was provided to the client regarding the quality testing requirements in accordance with the subdivision development guidelines and AS 3798 while the frequency of quality testing undertaken across individual allotments was lower than nominated in the specification, the client elected to rely on quality testing undertaken per material source or properties were identified. This approach was adopted by the client for construction control purposes.

### 3.2 Compaction Control Testing

Compaction control tests were carried out during fill placement in accordance with the minimum test frequency recommendations outlined in AS3798–2007 and the provided specification.

A summary of the compaction testing results is presented in **Table 3** below, with the corresponding test certificates attached in Appendix C. Laboratory results indicate that the average density ratio for the field density tests of each lot (layer) tested meets the minimum required compaction of 95% of standard MDD. Moisture ratios for all layers were generally conforming. Green text highlights conforming results.

Table 3: Compaction Testing Results

Sample Number	Sample Date	Material	Lot Number	Location 1	Easting	Northing	RL	Compactive Effort	Density Required	Dry Density Ratio	FMC	OMC	Field Dry Density	MDD
21791/S/25-15377	20/08/2025	Existing	Lot CF5	698-699 LY1	18749.971	616271.828	20.182	Modified	95	95.5	9.8	9.0	2.01	2.10
21791/S/25-15378	20/08/2025	Existing	Lot CF5	698-699 LY1	18753.314	616296.210	20.511	Modified	95	96.0	9.5	8.0	2.04	2.12
21791/S/25-15379	20/08/2025	Existing	Lot CF1/CF3	Existing Drain Sec 1 LY1	18557.640	616249.995	18.441	Modified	95	95.5	11.7	10.0	1.97	2.06
21791/S/25-15380	20/08/2025	Existing	Lot CF1/CF3	Existing Drain Sec 1 LY2	18566.832	616295.958	19.317	Modified	95	96.0	10.3	10.5	2.00	2.08
21791/S/25-15427	21/08/2025	Fill	Existing Drain Sec 1	Layer 3	18592.564	616248.631	19.213	Modified	95	97.5	13.1	11.0	2.02	2.07
21791/S/25-15428	21/08/2025	Fill	Existing Drain Sec 1	Layer 4	18592.564	616248.631	19.000	Modified	95	98.5	12.5	12.0	2.02	2.05
21791/S/25-15429	21/08/2025	Fill	Existing Drain Sec 1	Layer 3	18564.341	616225.887	17.685	Modified	95	100.0	13.0	11.0	2.07	2.07
21791/S/25-15430	21/08/2025	Fill	Existing Drain Sec 1	Layer 4	18564.341	616225.887	17.452	Modified	95	100.0	12.3	12.0	2.07	2.07
21791/S/25-15431	21/08/2025	Fill	Existing Drain Sec 1	Layer 3	18599.429	616221.791	18.485	Modified	95	96.0	14.3	12.5	1.97	2.05
21791/S/25-15432	21/08/2025	Fill	Existing Drain Sec 1	Layer 4	18599.429	616221.791	18.210	Modified	95	96.0	12.6	11.0	2.00	2.08
21791/S/25-15603	22/08/2025	General Fill	Lot CF1	Lot 791-794	18573.499	616250.804	18.924	Modified	95	96.0	9.6	8.5	2.10	2.19
21791/S/25-15664	25/08/2025	General Fill	Lot CF1	Lot 791- 794 CL2	18579.258	616232.38	18.496	Modified	95	96.0	13.5	11.5	2.03	2.11
21791/S/25-15665	25/08/2025	General Fill	Lot CF1	Lot 791- 794 CL1	185841.75	616229.776	18.596	Modified	95	100.0	9.4	11.5	2.12	2.12
21791/S/25-16112	28/08/2025	General Fill	Lot 816- Layer 2	Lot 816	18753.794	616079.800	18.105	Modified	95	97.0	13.0	11.0	2.02	2.07
21791/S/25-16113	28/08/2025	General Fill	Lot 817- Layer 2	Lot 817	18753.489	616109.162	18.353	Modified	95	96.0	12.8	10.5	2.08	2.16
21791/S/25-16114	28/08/2025	General Fill	Lot 817- Layer 1	Lot 817	18743.385	616107.129	18.473	Modified	95	97.5	11.5	11.0	2.06	2.11
21791/S/25-16115	28/08/2025	General Fill	Lot 816- Layer 1	Lot 816	18742.353	616085.094	18.323	Modified	95	98.5	11.5	11.5	2.10	2.14
21791/S/25-16129	29/08/2025	General Fill	Lot 815	Lot 815	18752.839	616079.122	18.153	Modified	95	99.0	12.0	12.5	2.09	2.11
21791/S/25-16130	29/08/2025	General Fill	Lot 815	Lot 815	18753.722	616076.473	18.318	Modified	95	97.5	9.8	11.0	2.12	2.17
21791/S/25-16143	1/09/2025	General Fill	Lot 790-795, 813, 814	Lot 813	18755.572	616029.543	17.459	Modified	95	99.0	12.6	12.0	2.11	2.13
21791/S/25-16144	1/09/2025	General Fill	Lot 790-795, 813, 814	Lot 814	18739.275	616041.945	17.792	Modified	95	103.0	10.4	12.0	2.19	2.13
21791/S/25-16145	1/09/2025	General Fill	Lot 790-795, 813, 814	Lot 790-795	18577.139	616214.152	17.989	Modified	95	100.5	8.2	12.0	2.13	2.12
21791/S/25-16146	1/09/2025	General Fill	Lot 790-795, 813, 814	Lot 790-795	18593.642	616249.751	19.716	Modified	95	97.0	10.1	11.0	2.06	2.12
21791/S/25-16147	1/09/2025	General Fill	Lot 790-795, 813, 814	Lot 790-795	18595.059	616241.499	19.251	Modified	95	99.5	11.2	11.5	2.12	2.13
21791/S/25-16353	5/09/2025	General Fill	Various (Lot 812, 692-688)	Lot 812	18750.59	615997.66	17.56	Modified	95	98.0	12.2	12.0	2.06	2.10
21791/S/25-16354	5/09/2025	General Fill	(Lot 812, 692-688)	Lot 692-688	18607.37	616253.34	19.92	Modified	95	95.0	13.5	11.5	1.98	2.09
21791/S/25-16355	5/09/2025	General Fill	(Lot 812, 692-688)	Lot 692-688	18578.00	616260.28	19.85	Modified	95	96.0	12.7	11.5	2.02	2.10
21791/S/25-16356	5/09/2025	General Fill	(Lot 812, 692-688)	Lot 692-688	18589.41	616264.12	19.92	Modified	95	96.5	12.8	12.0	2.03	2.10
21791/S/25-16845	11/09/2025	General Fill	Lot 688-692 & 693-695	Lot 693-695	18667.88	616256.00	20.15	Modified	95	96.5	8.2	10.0	2.05	2.12
21791/S/25-16846	11/09/2025	General Fill	Lot 688-692 & 693-695	Lot 693-695	18642.39	616245.19	20.40	Modified	95	98.0	11.4	11.5	2.13	2.17
21791/S/25-16847	11/09/2025	General Fill	Lot 688-692 & 693-695	Lot 693-695	18638.36	616243.98	20.02	Modified	95	99.5	11.6	11.0	2.16	2.16
21791/S/25-16848	11/09/2025	General Fill	Lot 688-692 & 693-695	Lot 688-692	18612.948	616248.368	20.310	Modified	95	97.0	12.2	11.5	2.11	2.18
21791/S/25-16849	11/09/2025	General Fill	Lot 688-692 & 693-695	Lot 688-692	18600.089	616250.006	20.197	Modified	95	98.0	11.9	12.5	2.09	2.13
21791/S/25-16850	11/09/2025	General Fill	Lot 688-692 & 693-695	Lot 688-692	18588.375	616267.387	20.056	Modified	95	97.0	14.3	13.0	2.08	2.14
21791/S/25-16873	12/09/2025	General Fill	Various Lots		18631.016	616089.066	16.762	Modified	95	98.5	12.6	10.5	2.14	2.16
21791/S/25-16874	12/09/2025	General Fill	Various Lots		18628.671	616100.378	16.896	Modified	95	95.5	10.0	10.0	2.07	2.16
21791/S/25-16877	12/09/2025	General Fill	Various Lots		18679.628	616036.674	17.051	-	95	-	8.5	-	2.07	-
21791/S/25-17007	18/09/2025	General Fill	Lot 668 to 696		18569.41	616259.91	FSL	Modified	95	98.5	6.9	9.0	2.15	2.18
21791/S/25-17008	18/09/2025	General Fill	Lot 668 to 696		18600.54	616270.75	FSL	Modified	95	95.5	6.5	8.5	2.09	2.19
21791/S/25-17009	18/09/2025	General Fill	Lot 668 to 696		18617.53	616251.25	FSL	Modified	95	98.5	7.9	9.0	2.13	2.16
21791/S/25-17010	18/09/2025	General Fill	Lot 668 to 696		18646.93	616260.91	FSL	Modified	95	97.5	6.1	8.5	2.14	2.19
21791/S/25-17011	18/09/2025	General Fill	Lot 668 to 696		18688.92	616237.19	FSL	Modified	95	99.0	7.2	9.5	2.13	2.15
21791/S/25-17394	23/09/2025	General Fill	Lot 706 to 712		18641.059	616297.623	20.855	Modified	95	98.5	7.8	10.0	2.19	2.22



Sample Number	Sample Date	Material	Lot Number	Location 1	Easting	Northing	RL	Compactive Effort	Density Required	Dry Density Ratio	FMC	OMC	Field Dry Density	MDD
21791/S/25-17395	23/09/2025	General Fill	Lot 706 to 712		18610.551	616313.105	20.917	Modified	95	99.0	8.7	10.0	2.15	2.16
21791/S/25-17396	23/09/2025	General Fill	Lot 706 to 712		18579.579	616310.238	20.625	Modified	95	101.5	6.5	9.5	2.19	2.16
21791/S/25-17397	23/09/2025	General Fill	Lot 706 to 712		18578.592	616323.125	20.619	Modified	95	96.0	9.3	10.5	2.10	2.19
21791/S/25-17398	23/09/2025	General Fill	Lot 706 to 712		18598.300	616309.861	20.580	Modified	95	99.0	10.0	10.0	2.21	2.23
21791/S/25-17399	23/09/2025	General Fill	Lot 706 to 712		18628.656	616302.191	20.693	Modified	95	96.5	12.7	11.5	2.03	2.10
21791/S/25-17996	30/09/2025	General Fill	Lot 715 to 723	FSL	18580.184	616330.172	21.424	Modified	95	97.5	7.2	9.5	2.12	2.18
21791/S/25-17997	30/09/2025	General Fill	Lot 715 to 723	FSL	18595.908	616341.389	21.493	Modified	95	100.5	10.3	10.5	2.20	2.19
21791/S/25-17998	30/09/2025	General Fill	Lot 715 to 723	FSL	18613.578	616332.916	21.672	Modified	95	99.5	9.7	9.5	2.18	2.19
21791/S/25-17999	30/09/2025	General Fill	Lot 715 to 723	FSL	18630.546	616324.447	21.775	Modified	95	99.0	9.8	9.5	2.15	2.17
21791/S/25-18000	30/09/2025	General Fill	Lot 715 to 723	FSL	18649.527	616334.971	21.691	Modified	95	98.0	8.5	9.5	2.14	2.19
21791/S/25-18001	30/09/2025	General Fill	Lot 715 to 723	FSL	18689.517	616321.579	21.368	Modified	95	100.0	9.0	10.0	2.17	2.18
21791/S/25-18002	30/09/2025	General Fill	Lot 715 to 723	Layer 1	18672.042	616312.073	21.391	Modified	95	95.0	8.4	10.5	2.06	2.18
21791/S/25-18003	30/09/2025	General Fill	Lot 715 to 723	Layer 1	18640.268	616318.078	21.574	Modified	95	95.5	8.3	10.5	2.07	2.17
21791/S/25-18004	30/09/2025	General Fill	Lot 715 to 723	Layer 1	18607.788	616324.481	21.435	Modified	95	96.0	8.1	11.0	2.08	2.17
21791/S/25-18005	30/09/2025	General Fill	Lot 715 to 723	Layer 1	18587.218	616334.978	21.261	Modified	95	96.0	7.7	11.0	2.08	2.17
21791/S/25-18584	6/10/2025	General Fill	AZTEC Roundabout	Layer 4	18635.873	616105.283	17.310	Modified	95	99.5	7.7	9.0	2.23	2.24
21791/S/25-18585	6/10/2025	General Fill	AZTEC Roundabout	Layer 3	18636.487	616104.220	17.087	Modified	95	97.5	10.5	8.5	2.13	2.18
21791/S/25-18586	6/10/2025	General Fill	AZTEC Roundabout	Layer 5	18638.025	616105.685	17.466	Modified	95	98.5	7.4	8.5	2.20	2.23
21791/S/25-18587	6/10/2025	General Fill	AZTEC Roundabout	FSL	18638.727	616105.417	17.689	Modified	95	100.0	7.5	8.5	2.27	2.26
21791/S/25-18692	10/10/2025	General Fill	Lot 735-742	Lot 735-738	18591.76	616413.48	22.085	Modified	95	101.0	7.7	11.5	2.14	2.12
21791/S/25-18693	10/10/2025	General Fill	Lot 735-742	Lot 735-738	18598.27	616442.95	22.74	Modified	95	98.0	11.7	11.5	2.06	2.10
21791/S/25-18694	10/10/2025	General Fill	Lot 735-742	Lot 735-738	18600.37	616429.83	23.04	Modified	95	99.5	9.1	11.0	2.13	2.14
21791/S/25-18695	10/10/2025	General Fill	Lot 735-742	Lot 739-742 Correction Layer	18603.22	616490.11	23.39	Modified	95	96.0	12.9	12.0	2.00	2.08
21791/S/25-18696	10/10/2025	General Fill	Lot 735-742	Lot 739-742 Correction Layer	18613.42	616512.25	23.53	Modified	95	96.5	12.7	12.0	2.00	2.07
21791/S/25-18819	8/10/2025	General Fill	Lot# 778-780, 796-799	Lot# 796-799	18685.965	616024.393	17.383	Modified	95	98.0	11.5	13.0	2.02	2.06
21791/S/25-18820	8/10/2025	General Fill	Lot# 778-780, 796-799	Lot# 796-799	18685.030	616023.492	17.186	Modified	95	98.5	11.7	13.5	1.99	2.03
21791/S/25-18821	8/10/2025	General Fill	Lot# 778-780, 796-799	Lot# 796-799	18681.338	616041.853	17.627	Modified	95	98.0	11.6	13.5	2.02	2.05
21791/S/25-18822	8/10/2025	General Fill	Lot# 778-780, 796-799	Lot# 796-799	18686.751	616050.227	17.594	Modified	95	99.0	7.7	9.0	2.08	2.09
21791/S/25-18823	8/10/2025	General Fill	Lot# 778-780, 796-799	Lot# 778-780	18644.551	616213.718	19.138	Modified	95	96.0	7.9	9.0	2.10	2.19
21791/S/25-18824	8/10/2025	General Fill	Lot# 778-780, 796-799	Lot# 778-780	18620.543	616221.319	19.230	Modified	95	96.5	11.4	12.0	2.02	2.10
21791/S/25-19067	16/10/2025	General Fill	Lot# 739-742	Lot# 739-742	718615	8616447		Modified	95	99.0	11.6	13.5	2.08	2.10
21791/S/25-19068	16/10/2025	General Fill	Lot# 739-742	Lot# 739-742	718629	8616462		Modified	95	100.5	12.3	13.0	2.06	2.04
21791/S/25-19069	16/10/2025	General Fill	Lot# 739-742	Lot# 739-742	718621	8616479		Modified	95	100.0	8.5	11.5	2.13	2.14
21791/S/25-19070	16/10/2025	General Fill	Lot# 739-742	Lot# 739-742	718643	8616542		Modified	95	103.0	11.3	13.5	2.15	2.08
21791/S/25-19267	21/10/2025	General Fill	Lot 743 - 745	FSL	18617.80	616547.05	23.85	Modified	95	100.5	9.9	14.0	2.06	2.05
21791/S/25-19268	21/10/2025	General Fill	Lot 743 - 745	Layer 1	18617.53	616569.69	23.84	Modified	95	101.0	13.5	14.5	1.99	1.97
21791/S/25-19269	21/10/2025	General Fill	Lot 743 - 745	FSL	18617.53	616569.68	24.05	Modified	95	100.5	5.9	9.5	2.19	2.18
21791/S/25-19270	21/10/2025	Backfill	SESW005	Line 5 Backfill	12.1	0.3		Modified	95	100.0	11.3	12.0	2.09	2.09
21791/S/25-19454	24/10/2025	General Fill	Lot# 757-759	Lot# 757	18692.16	616532.10	24.23	Modified	95	102.5	9.7	12.5	2.17	2.12
21791/S/25-19455	24/10/2025	General Fill	Lot# 757-759	Lot# 758	18675.96	616530.90	24.19	Modified	95	98.0	10.6	13.5	2.04	2.09
21791/S/25-19456	24/10/2025	General Fill	Lot# 757-759	Lot# 759	18652.19	616527.53	24.04	Modified	95	95.5	13.8	13.5	1.99	2.08
<b>Average</b>	<b>84 Tests</b>									<b>98.1</b>	<b>10.4</b>	<b>11.0</b>		<b>2.1</b>

FMC – Field Moisture Content

OMC – Optimum Moisture Content (Modified)

Coordinates were generally provided by the client, and testing locations were well distributed throughout the site in areas where fill was to be placed. **Figure 9** below provides a location plan of the undertaken tests and lot numbers. During the course of the earthworks, some lot numbers were updated, and therefore certain lot numbers shown may differ slightly from those presented on the original reference drawings; however, the lot orientation remained unchanged.

This report and the associated fieldwork were undertaken with reference to the drawing set titled Zuccoli Phases 3.9-3.11 Bulk Earthworks Drawings. **Figure 9** below shows the updated lot numbering, with test locations plotted based on the revised layout. Test locations were recorded using the project local grid due to its availability at the time of testing.

Figure 9: Approximate Compaction Testing Locations



On 24/10/2025, Level 1 earthworks were temporarily paused due to a shortage of fill material. The client utilised site-won material for the majority of the fill placement works. At the time of inspection, most of the fill placement material had been sourced from on-site materials until the available on-site material was depleted. Currently, spoil material generated from service trench excavations is being stockpiled for reuse within fill areas that have reached Finished Surface Level (FSL) to complete the remaining fill placement.

**Figure 10** below outlines the areas that have achieved Finished Surface Level based on testing undertaken within the relevant allotments and fill areas. Areas shown in green indicate lots and fill areas that have reached FSL. Areas shown in yellow represent partially completed fill that has not yet achieved FSL. Areas shown in red indicate in-cut sections that have not yet been inspected to FSL. The site office area is shown in grey. The client intent to complete the remaining partial fill and in cut areas during the next phase of the earthworks.

Figure 10: Fill Areas at Finished Surface Level and Earthworks progress (Based on Level 1 Testing)



### 3.3 Rock fill

The client requested confirmation from CMW that the proposed rock fill methodology is acceptable, with the rock fill layer limited to a maximum thickness of 800 mm below subgrade Finished Surface Level (FSL) for use within the deep fill area located in the south-east of the site, adjacent to Lots 810 and 811. The proposed methodology is appended in **Appendix C**. In accordance with the Subdivision Guidelines, CMW advised that rock fill is required to be placed on a stable, proof-rolled subgrade, with measures implemented to prevent the loss of fines (e.g. placement of geofabric where required). The rock fill must be capped with compliant general fill and demonstrate stability through proof rolling, with no visible deflection or deformation observed.

As part of the Level 1 inspection, CMW confirmed that the fill was placed in a stable manner in accordance with the specification, based on proof rolling of the surface and verification that no visible deflection or deformation occurred. **Figure 11** below show rock fill placement within the deep fill area adjacent to lots 810 and 811.

Figure 11: Rock fill placement within deep fill Area (Lot810 and 811)



## 4.0 GENERAL SUPERVISION

### 4.1 Site Inspection Notes

Site notes from the earthwork’s activities document the general progress and observations recorded each day. The main observations indicate that the material was placed at or near optimum moisture content and compacted using multiple passes of a heavy padfoot roller following placement. The site inspection notes are summarised in **Table 4** below and included in full in Appendix B.

Table 4: Site Inspection Notes

Site Personnel	Date	Inspection type	Building Pad	Plant/equipment used
Dilush Anthonige	14/08/2025	Initial site-walk through	An initial site walk-through was undertaken to observe stockpiles, general site conditions, and areas of initial fill placement.	Visual and tactile assessment
Dilush Anthonige	15/08/2025	Post strip inspection	A post-strip inspection was carried out on Lots 813 to 819 to confirm topsoil removal and surface condition. Stripping was ongoing at the time of inspection, and some remaining roots (up to approximately 60 mm) and stumps were observed within the lateritic soil. Instructions were given to remove all remaining roots and organic material in accordance with project requirements. The area will be monitored during subsequent site visits.	Visual and tactile assessment
Dilush Anthonige	18/08/2025	Post strip inspection, Site Investigation,	A post-strip inspection of the existing trench area was undertaken, confirming that all topsoil had been stripped and the exposed surface was satisfactory. The trench extends from Aztec Court to the northern boundary of the site.	1 x Excavator 1 x Water cart

		Earthworks	<p>DCP testing was carried out along Aztec Court and adjacent to the existing drain at Lot 794.</p> <p>Two test pits were excavated in areas where low-strength material had been spread to assess the extent of low-bearing soils. The test pits encountered grey silty gravelly sand underlain by weathered red-brown sandy clay. The silty gravelly sand layer was generally less than 500 mm thick in both test pits. These locations are considered local low points, where the weathered strata were saturated.</p>	<p>Dynamic Cone Penetrometer (DCP)</p> <p>1 x Pad foot</p>
Dilush Anthonige	19/08/2025	Post strip inspection, Earthworks	<p>A post-strip inspection was carried out on Lots 698 to 699, confirming that all topsoil had been stripped and the exposed surface was satisfactory level. Ground is -500 below FSL.</p>	<p>1 x Grader</p> <p>1 x Water cart</p> <p>1 x Pad foot</p>
Dilush Anthonige	20/08/2025	Earthworks	<p>Earthworks were in progress, including backfilling of the existing drain LY 1 and 2 and tested end of the day.</p> <p>Lots 790 to 794 and Lots 688 to 692 were being prepared for proof rolling. Fill placement is expected to commence following completion of the existing drain backfilling to surrounding ground levels. Moisture within limits.</p>	<p>1 x Grader</p> <p>1 x Pad foot</p> <p>1 x Side Tippers</p> <p>1 x Water cart</p>
Dilush Anthonige	21/08/2025	Earthworks, Proof roll	<p>Earthworks were in progress, including backfilling and testing of Existing Drain LY3 and LY4.</p> <p>Proof rolling was carried out on Lots 790 to 794 and Lots 688 to 692.</p>	<p>1 x Grader</p> <p>1 x Pad foot</p> <p>1 x Articulated Dump Trucks (ADT)</p> <p>1 x Water cart</p> <p>1 x Excavator</p>
Dilush Anthonige	22/08/2025	Earthworks	<p>Fill placement was carried out on Lots 816 to 817 (LY1). Moisture within limits.</p> <p>Fill placement was also undertaken on Lots 790 to 794 (LY1), with some areas requiring correction layers due to sloping ground conditions. Material moisture was acceptable during fill placement.</p>	<p>1 x Grader</p> <p>1 x Pad foot</p> <p>1 x ADT</p> <p>1 x Water cart</p> <p>1 x Excavator</p> <p>1 x Loader</p>
Dilush Anthonige	25/08/2025	Earthworks, Proof roll	<p>Works were undertaken on Lots 815 to 817 LY1, with material being carted by scraper. Fill placement was also carried out on Lots 790 to 794. Activities were therefore occurring in two areas: the southern portion of the site and the western side of the site. Proof roll conducted on Lot 797 to 811. Moisture within range.</p>	<p>1 x Excavator</p> <p>1 x Grader</p> <p>1 x Water cart</p> <p>1 x Scraper</p> <p>1 x Pad foot</p>
Dilush Anthonige	27/08/2025	Earthworks, Post strip inspection, Proof roll	<p>Fill placement was undertaken on Lots 813 to 817 LY2. A post-strip inspection was carried out on Lots 806 to 811, and instructions were given to remove loose roots and further clean the area to ensure all organic material was removed. Proof roll conducted on Lot 686 to 692. During fill placement, the material moisture condition was acceptable.</p>	<p>1 x Excavator</p> <p>1 x Grader</p> <p>1 x Water cart</p> <p>1 x Scraper</p> <p>1 x Pad foot</p>
Dilush Anthonige	28/08/2025	Earthworks	<p>Fill placement was undertaken on Lots 813 to 817 and Lots 790 to 794. Other works on site included rock crushing activities within cut areas. Tested Lot 813 and 814 LY1 &amp; 2.</p>	<p>1 x Grader</p> <p>1 x Pad foot</p> <p>1 x ADT</p> <p>2 x Water cart</p> <p>1 x Excavator</p> <p>1 x Loader</p>
Dilush Anthonige	29/08/2025	Earthworks	<p>Fill placement was undertaken on Lots 815 to 817 and Lot 688 to 693 LY1. Moisture within range. Tested Lot 815 LY 1 &amp; 2.</p>	<p>1 x Grader</p> <p>1 x Scraper</p> <p>1 x Pad foot</p> <p>1 x ADT</p>

				2 x Water cart 1 x Excavator 2 x Side Tippers
Dilush Anthonige	1/09/2025	Earthworks, Site Investigation	<p>Fill placement was undertaken on Lots 813 to 815 and Lots 688 to 693 (LY2), with material placed at appropriate moisture content. Stockpiling was carried out on Lots 813 to 817.</p> <p>Three Dynamic Cone Penetrometer (DCP) tests were carried out adjacent to Lots 811, 799, and 780 to assess the presence of any low-strength material prior to fill placement.</p>	1 x Grader 1 x Scraper 1 x Pad foot 1 x ADT 2 x Water cart 1 x Excavator 1 x Loader 2 x Side Tippers
Dilush Anthonige	3/09/2025	Earth works, Proof Roll, Site Investigation	<p>Lots 815 to 817 have reached Finished Surface Level (FSL), and these areas will be used for mulch placement. Lots 812 and 813 still require additional fill to achieve FSL.</p> <p>Proof rolling was carried out around the cul-de-sac at Aztec Court where low-strength material had been spread, and several soft spots were identified. At the cul-de-sac, approximately 200 mm of material was advised to be removed and replaced.</p> <p>Further north, five DCP tests were undertaken, and a soft spot was identified approximately 50 m from the cul-de-sac. The extent of this area was defined by DCP testing (5 DCPs) and boxed out. The boxed-out area measures approximately 16 m x 15 m x 0.7 m (L x W x D) and will require ripping and replacement. Total 10 DCPs performed.</p>	1 x Water cart Dynamic Cone Penetrometer (DCP)
Dilush Anthonige	4/09/2025	Earth works	<p>Fill placement was undertaken on Lots 691 to 695 LY1 and Lots 790 to 794. Fill placement was also carried out at the southern end of the site on Lot 812. Material moisture was acceptable during placement. Excavation of the boxed-out area was in progress.</p>	2 x Grader 2 x Roller 2 x Water cart 1 x Excavator
Dilush Anthonige	5/09/2025	Earth works, Proof Roll	<p>Fill placement was undertaken on Lots 688 to 695 (LY2). Layers 1 and 2 were tested and achieved good density with consistent moisture during placement.</p> <p>Proof rolled Aztec Court batter at the west side.</p>	1 x Grader 1 x Pad foot 1 x ADT 1 x Water cart
Dilush Anthonige	8/09/2025	Earthworks	<p>Fill placement continued Lots 688 to 695 (LY2). Backfilling of the boxed-out area was undertaken.</p>	1 x Grader 1 x Scraper 1 x Pad foot 2 x Water cart 1 x Excavator
Dilush Anthonige	9/09/2025	Earthworks	<p>Fill placement continued Lots 688 to 695 (LY2). During fill placement, the material moisture condition was acceptable</p>	1 x Grader 1 x Scraper 1 x Pad foot 1 x Water cart
Dilush Anthonige	10/09/2025	Earthworks	<p>Works continued Lots 688 to 695.</p> <p>Rockfill areas adjacent to Lots 810 to 811 were inspected. In the rockfill area adjacent to Lots 779 to 780, a significant amount of oversize material was observed; therefore, acceptance will rely on proof rolling, as laboratory density testing is not suitable due to the oversized particles. A sample was taken from the crushed rock stockpile for quality testing. On site in cut material was sampled for testing.</p>	1 x Grader 1 x Scraper 1 x Pad foot 1 x Water cart
Dilush Anthonige	11/09/2025	Earthworks	<p>Fill placement continued Lots 688 to 695 (LY3), with testing conducted on Layers 1, 2, and 3. Crushed concrete was placed on the road batters along Aztec Court from the western end past the cul-de-sac to the southern section. Material was being carted to</p>	1 x Grader 1 x Pad foot 1 x Water cart

			the cul-de-sac for placement. Some crushed steel pieces (rebar) were observed within the crushed concrete on the batters, and instructions were given to remove these from the placement area.	1 x Excavator
Dilush Anthonige	12/09/2025	Earthworks	Testing was conducted in several areas, including locations that had been boxed out for rip-and-replace works. Testing requirements were dependent on the oversize content present. Rockfill areas at Lots 809 to 811 were assessed to determine oversize content and to confirm the suitability of proof rolling as the acceptance method, as the material exceeded laboratory density testing limits due to oversize particles. Compared to previous inspections, additional fines had been added, and the fill level was approximately 1 m below Finished Surface Level (FSL) at the time of inspection. Testing was also undertaken at the Aztec Court cul-de-sac for Layers 1 and 2. Fill placement has slowed due to trenching work in progress on various parts of the site.	1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator
Dilush Anthonige	16/09/2025	Earthworks	Fill placement continued Lots 705 to 711 layer 1 and Lots 688 to 696 (closer to FSL), with material placed at appropriate moisture content and mixed well. Works also continued in the rockfill area, where moisture was added and advice was given to increase padfoot roller passes to achieve adequate compaction to avoid heaving.	1 x Grader 1 x Scraper 1 x Pad foot 1 x Water cart
Dilush Anthonige	18/09/2025	Earthworks	Fill placement continued Lots 705 to 711. Testing was carried out on Lots 688 to 696 at Finished Surface Level (FSL).	1 x Grader 1 x Pad foot 1 x Scraper 1 x Water cart
Dilush Anthonige	19/09/2025	Earthworks	Fill placement continued Lots 705 to 711 LY2. Works also progressed on the Aztec Court Road batters and within the rockfill areas at Lots 809 to 811.	1 x Grader 1 x Pad foot 1 x ADT 1 x Water cart
Dilush Anthonige	22/09/2025	Earthworks, Site investigation	Fill placement continued Lots 705 to 711 (LY2). Construction of the embankment was undertaken at the remediation area and the southern embankment on the opposite side. DCP testing was carried out at these locations, with six DCP tests completed, confirming the areas were suitable for fill placement. Rockfill and crushed concrete were used as fill material for the embankment.	1 x Grader 1 x Scraper 1 x Pad foot 1 x ADT 2 x Water cart 1 x Excavator Dynamic Cone Penetrometer (DCP)
Dilush Anthonige	23/09/2025	Earthworks	Fill placement commenced on Lots 715 to 722 (Layer 1). Lots 705 to 711 have reached Finished Surface Level (FSL) and were tested for Layers 1 and 2, with consistent moisture and density achieved across the pads.	1 x Grader 1 x Scraper 1 x Pad foot 1 x ADT 2 x Water cart 1 x Excavator
Dilush Anthonige	24/09/2025	Earthworks	Lots 790 to 793 were being shaped in preparation for topsoil placement. Topsoil has already been placed on Lots 690 to 695. Fill placement continued on Lots 716 to 723, and construction of the embankment was ongoing. Instructions were given to remove any steel parts from the fill material.	1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator
Dilush Anthonige	25/09/2025	Earthworks	Fill placement continued at the Aztec Court cul-de-sac. However, progress was slowed due to ongoing trenching works.	1 x Grader 1 x Pad foot 1 x Water cart

Dilush Anthonige	26/09/2025	Earthworks, Proof roll	Proof rolling was carried out on the rockfill areas at Lots 810 to 811, with no visible deflection or movement observed, and the areas were deemed to have passed proof rolling. Fill placement continued at the Aztec Court cul-de-sac.	1 x Excavator 1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator 1 x ADT
Dilush Anthonige	29/09/2025	Earthworks, Proof roll	Fill placement continued on Lots 715 to 723. Proof rolling was carried out on the embankment along the south-west side, with no visible deflection or movement observed. Minor movement was observed on the lot-side embankment, and advice was given to rip and recompact the upper 200 mm to 300 mm due to trapped moisture restricting compaction.	1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator 1 x ADT
Dilush Anthonige	30/09/2025	Earthworks, Proof roll	Fill placement continued on Lots 715 to 723. Proof rolling was carried out on the embankment along the lot side, with no visible deflection or movement observed. Testing was carried out on Lots 715 to 723 for Layer 1 and Layer 2 at Finished Surface Level (FSL).	1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator 1 x ADT
Dilush Anthonige	2/10/2025	Earthworks	Topsoil placement was carried out on the sediment basin embankment and batters on the south-west side of the site. Fill placement continued on the southern embankment using crushed concrete and rockfill as fill material.	1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator
Dilush Anthonige	3/10/2025	Earthworks	Topsoil placement continued on the sediment basin embankment and batters. Fill placement was undertaken on Lots 789 to 780.	1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator
Dilush Anthonige	6/10/2025	Proof roll	Proof rolling was carried out on Lots 741 to 759, with no visible deflection or movement observed. Instructions were given to remove any sticks prior to material placement. Testing was carried out at the Aztec Court cul-de-sac for Layers 3, 4, 5, and at Finished Surface Level (FSL).	1 x Water cart
Dilush Anthonige	8/10/2025	Earthworks	Fill placement commenced on Lots 743 to 751. Geofabric was placed on the southern embankment prior to the placement of crushed concrete within the sediment basin. Testing was carried out on Lots 779 to 782 for Layers 1 and 2, and on Lots 788 to 790 at Finished Surface Level (FSL).	1 x Pad foot 1 x Water cart 1 x Excavator
Dilush Anthonige	10/10/2025	Earthworks	Lots 746 to 750 required correction layers. Two 200 mm layers were placed in this area to achieve Finished Surface Level (FSL).	1 x Grader 1 x Pad foot 1 x Water cart
Dilush Anthonige	14/10/2025	Earthworks	Fill placement continued on Lots 746 to 753. Material moisture was acceptable during placement.	1 x Grader 1 x Pad foot 1 x Water cart
Dilush Anthonige	16/10/2025	Earthworks	Lots 749 to 750 were ripped and recompactd due to trapped rainwater. Fill placement continued on Lots 751 to 753	1 x Grader 1 x Pad foot 1 x Water cart
Dilush Anthonige	17/10/2025	Earthworks	Fill placement continued on Lots 752 to 756, with material moisture acceptable during placement. Fill supply was limited, and as a result, fill placement in this area progressed slowly.	1 x Grader 1 x Pad foot 1 x Water cart

Dilush Anthonige	20/10/2025	Earthworks	Fill placement continued on Lots 754 to 756.	1 x Grader 1 x Pad foot 1 x Water cart
Dilush Anthonige	23/10/2025	Earthworks	Testing on Lots 754 to 756 indicated good density and consistent moisture. Fill placement commenced on Lots 757 to 759.	1 x Grader 1 x Pad foot 1 x Water cart

## 4.2 Site Inspection Photographs

Photographic records were taken for every site visit, inspection, proof roll and sampling point for internal records. Photo locations are provided in **Appendix A**. **Figure 12** presents typical site works and ground conditions observed during level 1 supervision, with daily inspection records included in **Appendix B**.

Figure 12: Level 1 site works – Typical Conditions



## 5.0 TRENCHES AND OTHER WORKS

Trench works were undertaken for the installation of stormwater and sewer lines and backfilled under the requirements of the provided specification under Level 2 testing conditions. CS technicians completed conformance testing at the base of trenches and on backfilled layers to surface.

## 6.0 ADDITIONAL WORKS/REQUIREMENTS

No additional requirements were requested by the client.

## 7.0 CLOSURE

It is considered that the placement of fill at the **Phase 3.9-3.11 Allotments** Level 1 site between the 14/08/2025 to 24/10/2025 under CMW supervision was carried out in a controlled manner and the fill was compacted to a dry density ratio not less than the specified requirement. It is assessed that the fill covered by this report and the attached test results are in accordance with the Level 1 requirements of AS3798-2007: *Earthworks for Residential and Commercial Developments*.

We also confirm that:

- a) Our representative was in site attendance whilst earthworks filling was in progress between the **14/08/2024** and the **24/10/2025**.
- b) Pre – fill ground preparation was carried out in accordance with the specifications and site instruction given; see the attached 21791-P-303 *The Heights Stage 11 Level 1* Report provided by Construction Sciences.
- c) The structural filling placed to design levels during the term of our engagement on a “Level 1” basis can be termed “controlled filling”.
- d) The results of the compaction control testing indicate that the fill placed during the term of our site attendance, was compacted to at least the minimum specified density ratio.
- e) All test results pertaining to the bulk earthworks are included within Appendix B of this report.

This report has been prepared for use by **BMD Urban** in relation to the **Phase 3.9-3.11 Allotments, Zuccoli, City of Palmerston** project in accordance with the scope, proposed uses and limitations described in the report. Should you have further questions relating to the use of your report please do not hesitate to contact us.

Where a party other than **BMD Urban** seeks to rely upon or otherwise use this report, the consent of CMW should be sought prior to any such use. CMW can then advise whether the report and its contents are suitable for the intended use by the other party.

## USING YOUR CMW GEOTECHNICAL REPORT

Geotechnical reporting relies on interpretation of facts and collected information using experience, professional judgement, and opinion. As such it generally has a level of uncertainty attached to it, which is often far less exact than other engineering design disciplines. The notes below provide general advice on what can be reasonably expected from your report and the inherent limitations of a geotechnical report.

### Preparation of your report

Your geotechnical report has been written for your use on your project. The contents of your report may not meet the needs of others who may have different objectives or requirements. The report has been prepared using generally accepted Geotechnical Engineering and Engineering Geology practices and procedures. The opinions and conclusions reached in your report are made in accordance with these accepted principles. Specific items of geotechnical or geological importance are highlighted in the report.

In producing your report, we have relied on the information which is referenced or summarised in the report. If further information becomes available or the nature of your project changes, then the findings in this report may no longer be appropriate. In such cases the report must be reviewed, and any necessary changes must be made by us.

### Your geotechnical report is based on your project's requirements

Your geotechnical report has been developed based on your specific project requirements and only applies to the site in this report. Project requirements could include the type of works being undertaken; project locality, size and configuration; the location of any structures on or around the site; the presence of underground utilities; proposed design methodology; the duration or design life of the works; and construction method and/or sequencing.

The information or advice in your geotechnical report should not be applied to any other project given the intrinsic differences between different projects and site locations. Similarly geotechnical information, data and conclusions from other sites and projects may not be relevant or appropriate for your project.

### Interpretation of geotechnical data

Site investigations identify subsurface conditions at discrete locations. Additional geotechnical information (e.g. literature and external data source review, laboratory testing etc) are interpreted by Geologists or Engineers to provide an opinion about a site specific ground models, their likely impact on the proposed development and recommended actions. Actual conditions may differ from those inferred to exist due to the variability of geological environments. The actual interface between materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions. Interpretation of factual data can be influenced by design and/or construction methods. Where these methods change review of the interpretation in the report may be required.

### Subsurface conditions can change

Subsurface conditions are created by natural processes and then can be altered anthropically or over time. For example, groundwater levels can vary with time or activities adjacent to your site, fill may be placed on a site, or the consistency of near surface conditions might be susceptible to seasonal changes. The report is based on conditions which existed at the time of investigation. It is important to confirm whether conditions may have changed, particularly when large periods of time have elapsed since the investigations were performed.

### Interpretation and use by other design professionals

Costly problems can occur when other design professionals develop their plans based on misinterpretations of a geotechnical report. To help avoid misinterpretations, it is important to retain the assistance of CMW to work with other project design professionals who are affected by the contents of your report. CMW staff can explain the report implications to design professionals and then review design plans and specifications to see that they have correctly incorporated the findings of this report.

### Your report's recommendations require confirmation during construction

Your report is based on site conditions as revealed through selective point sampling. Engineering judgement is then applied to assess how indicative of actual conditions throughout an area the point sampling might be. Any assumptions made cannot be substantiated until construction is complete. For this reason, you should retain geotechnical services throughout the construction stage, to identify variances from previous assumption, conduct additional tests if required and recommend solutions to problems encountered on site. A Geotechnical Engineer, who is fully familiar with the site and the background information, can assess whether the report's recommendations remain valid and whether changes should be considered as the project develops. An unfamiliar party using this report increases the risk that the report will be misinterpreted.

### Environmental matters are not covered

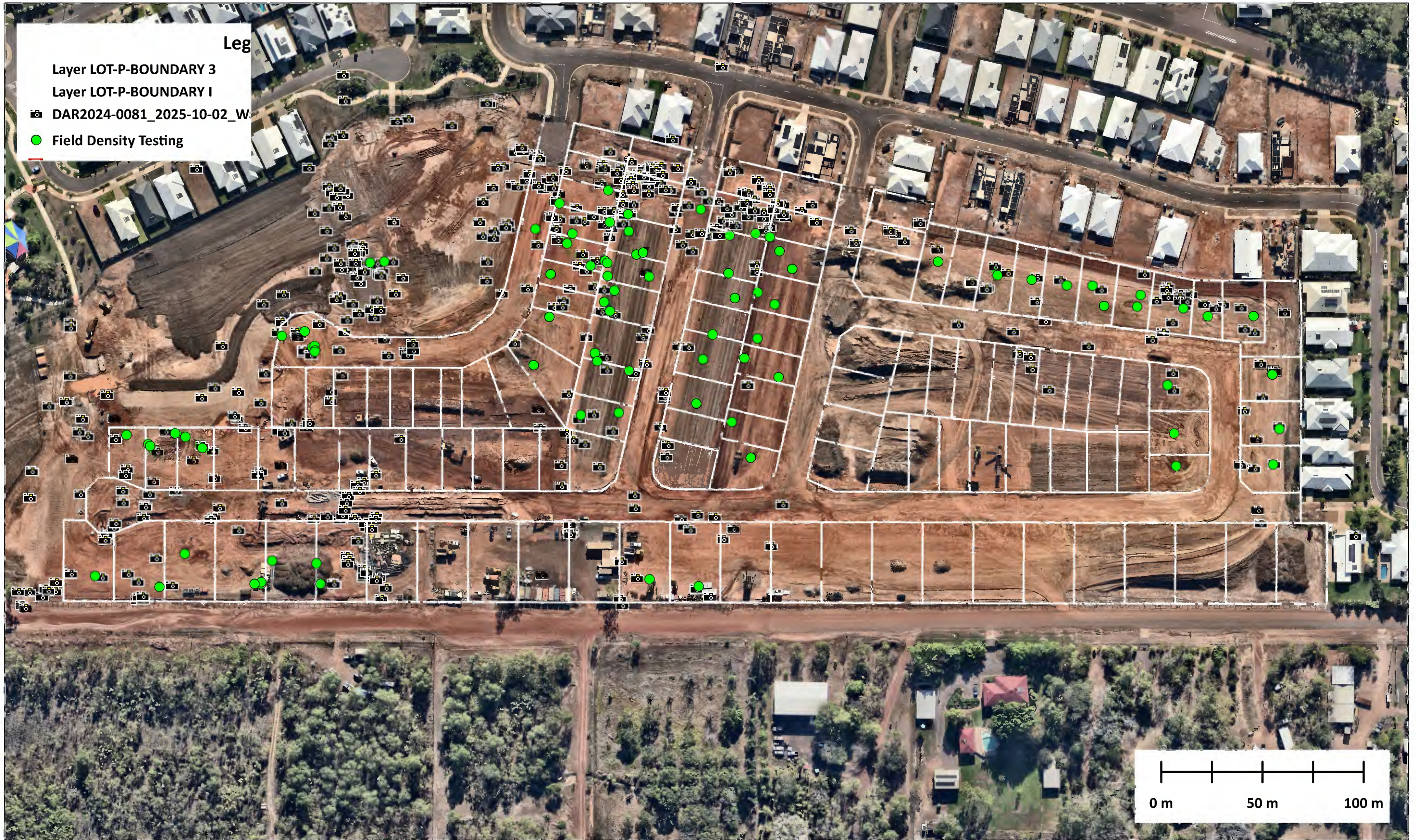
Unless specifically discussed in your report environmental matters are not covered by a CMW Geotechnical Report. Environmental matters might include the level of contaminants present of the site covered by this report, potential uses or treatment of contaminated materials or the disposal of contaminated materials. These matters can be complex and are often governed by specific legislation.

The personnel, equipment, and techniques used to perform an environmental study can differ significantly from those used in this report. For that reason, our report does not provide environmental recommendations. Unanticipated subsurface environmental

problems can have large consequences for your site. If you have not obtained your own environmental information about the project site, ask your CMW contact about how to find environmental risk-management guidance.

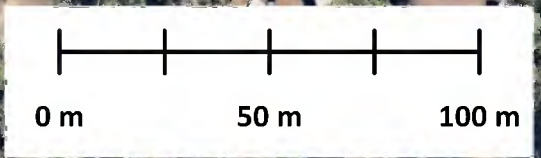
# APPENDIX A



## Site Maps & Drawings



**Leg**

- Layer LOT-P-BOUNDARY 3
- Layer LOT-P-BOUNDARY 1
- 📷 DAR2024-0081\_2025-10-02\_W
- Field Density Testing



 <p>DATA IS APPROXIMATE AND INTERPOLATED, INTENDED FOR ILLUSTRATION ONLY. BASEMAP COPYRIGHT REMAINS WITH Level 1 Supervision and Testing</p>	 <p><b>CMW Geosciences</b> Great People   Practical Solutions</p> <p>Map Produced by Construction Sciences Coordinate System: UTM Zone -52 / GDA2020 / meters</p>	SCALE: 1:1800	CLIENT: BMD Urban
		DATE: 05/01/2026	PROJECT: Zuccoli Stage 3.9 to 3.11 Bulk Earthworks
		DRAWN: HR	LOCATION: Zuccoli, Palmerston
		DRAWING No: Drawing 1	<b>Level 1 Supervision and Testing</b>

# APPENDIX B

Photos & Site Inspection Notes

## South East Elevation

☉ 297°NW (T) ☉ 52 S 718648 8616426 ±207m ▲ 48m




Photo 1 - DAR2025-0081\_2025-08-14\_Site View\_11-04-29

## West Elevation

☉ 110°E (T) ☉ 52 S 718586 8616256 ±4m ▲ 23m



Photo 2 - DAR2025-0081\_2025-08-14\_Site View\_11-07-47

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	14/08/2025 1:34	
			<b>BMD Urban</b>

## South Elevation

☉ 15°N (T) ☉ 52 S 718757 8615985 ±89m ▲ 16m




Photo 3 - DAR2025-0081\_2025-08-14\_Site View\_11-15-11

## South East Elevation

☉ 293°NW (T) ☉ 52 S 718768 8615943 ±8m ▲ 19m



Photo 4 - DAR2025-0081\_2025-08-14\_Site View\_11-19-56

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences <small>Great People   Practical Solutions</small>
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	14/08/2025 1:46	
			<b>BMD Urban</b>

# North West Elevation

☉ 114°SE (T) ☉ 52 S 712106 8622936 ±9200m ▲ 0m



Lot 813 to 819 Post Strip Inspection

DAR2025-0081  
15 Aug 2025, 14:18:03

DAR2025-0081\_2025-08-15\_Lot 813 to 819 Post Strip Inspection

# North West Elevation


☉ 118°SE (T) ☉ 52 S 712073 8622940 ±9200m ▲ 0m



Lot 813 to 819 Post Strip Inspection

DAR2025-0081  
15 Aug 2025, 14:18:24

DAR2025-0081\_2025-08-15\_Lot 813 to 819 Post Strip Inspection

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	15/08/2025 4:48	

## South West Elevation

☉ 63°NE (T) ☉ 52 S 712073 8622940 ±9200m ▲ 0m



Lot 813 to 819 Post Strip Inspection

DAR2025-0081  
15 Aug 2025, 14:18:31

DAR2025-0081 2025-08-15 Lot 813 to 819 Post Strip Inspection

## East Elevation


☉ 263°W (T) ☉ 52 S 718696 8616027 ±13m ▲ 21m



Lot 813 to 819 Post Strip Inspection

DAR2025-0081  
15 Aug 2025, 14:18:51

Photo 8 - DAR2025-0081\_2025-08-15\_Lot 813 to 819 Post Strip Inspection\_14-18-51

Project	DAR2025 - 0081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	15/08/2025 4:48	
			<b>BMD Urban</b>

## Aztec Ct Zuccoli NT

☉ 251°W (T) ● 52 S 718576 8616207 ±107m ▲ 29m



DGP 1

DAR2025-0081  
18 Aug 2025, 12:20:42

Photo 9 - DAR2025-0081\_2025-08-18\_DGP 1\_12-20-42

## West Elevation


☉ 76°E (T) ● 52 S 718589 8616365 ±5m ▲ 25m



Existing trench post strip inspection

DAR2025-0081  
18 Aug 2025, 12:48:41

Photo 10 - DAR2025-0081\_2025-08-18\_Existing trench post strip inspection\_12-48-41

Project	DAR2025-0081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	18/08/2025 2:50	
			<b>BMD Urban</b>

# West Elevation

☉ 106°E (T) ☉ 52 S 718593 8616345 ±6m ▲ 26m



Existing trench post strip inspection

DAR2025-0081  
18 Aug 2025, 12:50:57

- DAR2025-0081\_2025-08-18\_Existing trench post strip inspection

# South Elevation


☉ 355°N (T) ☉ 52 S 718556 8616168 ±4m ▲ 21m



Existing trench post strip inspection

DAR2025-0081  
18 Aug 2025, 12:55:19

Photo 12 - DAR2025-0081\_2025-08-18\_Existing trench post strip inspection\_12-55-19

<b>Project</b>	<b>DAR2025-0081</b>		 <p><b>CMW</b> Geosciences Great People   Practical Solutions</p>
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	18/08/2025 3:20	
			<b>BMD Urban</b>

# West Elevation

☉ 77°E (T) ● 52 S 711863 8622921 ±8320m ▲ 36m



Lot 698 to 699 Striped subgrade. From the FSL -500

DAR2025-0081  
19 Aug 2025 09:34:02

125-0081\_2025-08-19\_Lot 698 to 699 Striped subgrade. From the FSL -500

# North West Elevation


☉ 146°SE (T) ● 52 S 718768 8616273 ±5m ▲ 23m



Lot 698 to 699 Striped subgrade. From the FSL -500

DAR2025-0081  
19 Aug 2025, 09:35:55

Photo 14 - DAR2025-0081\_2025-08-19\_Lot 698 to 699 Striped subgrade. From the FSL -500\_09-35-55

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	19/08/2025 12:00	

# East Elevation

☉ 290°W (T) ● 52 S 718769 8616228 ±4m ▲ 23m



Lot 698 to 699 Striped subgrade. From the FSL -500

DAR2025-0081  
19 Aug 2025 09:43:04

2025-0081\_2025-08-19\_Lot 698 to 699 Striped subgrade. From the FSL -500

# South Elevation


☉ 356°N (T) ● 52 S 718751 8616229 ±23m ▲ 19m



Lot 698 to 699 Striped subgrade. From the FSL -500

DAR2025-0081  
19 Aug 2025 09:43:27

Photo 16 - DAR2025-0081\_2025-08-19\_Lot 698 to 699 Striped subgrade. From the FSL -500\_09-43-27

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	19/08/2025 12:11	

## East Elevation

📍 288°W (T) 📍 52 S 718565 8616178 ±3m ▲ 20m



Working on existing drain backfilling

DAR2025-0081  
20 Aug 2025, 09:13:37

- DAR2025-0081\_2025-08-20\_Working on existing drain backfilling

## North West Elevation

📍 131°SE (T) 📍 52 S 718565 8616188 ±6m ▲ 19m



Working on existing drain backfilling

DAR2025-0081  
20 Aug 2025, 09:20:53

Photo 18 - DAR2025-0081\_2025-08-20\_Working on existing drain backfilling\_09-20-53



Project	DAR2025-0081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	19/08/2025 11:4	
			<b>BMD Urban</b>



Photo 19 - DAR2025-0081\_2025-08-20\_Trench 1\_12-01-41



Photo 20 - DAR2025-0081\_2025-08-20\_Working on existing drain backfilling\_12-37-07

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	20/08/2025 2:31	
			<b>BMD Urban</b>

## North Elevation

☉ 165°S (T) ☉ 52 S 718585 8616286 ±6m ▲ 24m




- DAR2025-0081\_2025-08-20 Working on existing drain backfilling

## West Elevation

☉ 104°E (T) ☉ 52 S 718549 8616188 ±7m ▲ 21m



Photo 22 - DAR2025-0081\_2025-08-20\_View of Aztec Court and Lots around it\_12-41-26

Project	DAR2025-0081		 <p><b>CMW</b> Geosciences Great People   Practical Solutions</p>
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	20/08/2025 3:07	

BMD Urban

## East Elevation

☉ 262°W (T) ☉ 52 S 718616 8616183 ±14m ▲ 20m




DAR2025-0081 2025-08-20 View of Aztec Court and Lots around i

## South West Elevation

☉ 35°NE (T) ☉ 52 S 718566 8616195 ±4m ▲ 20m



Photo 24 -

Project	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	20/08/2025 3:12	
			<b>BMD Urban</b>

# North West Elevation

📍 118°SE (T) 📍 52 S 718579 8616224 ±25m ▲ 21m




Photo 1 - DAR2025- 0043v 2025-08-21 Proof Roll Lot 791 to 794 14-44

# North Elevation

📍 188°S (T) 📍 52 S 718592 8616369 ±8m ▲ 25m



Photo 2 -

<b>Project</b>	DAR2025-0081		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	21/08/2025 5:14	
			<b>BMD Urban</b>

## South Elevation

☉ 7°N (T) ☉ 52 S 718567 8616191 ±5m ▲ 20m



tested existing trench LY 3.1 (225x6)

DAR2025-0043vv  
21 Aug 2025 15:38:52

Photo 2 -

## South Elevation


☉ 8°N (T) ☉ 52 S 718558 8616202 ±10m ▲ 20m



Lot 791 to 794 Pad foot compacting LY1

DAR2025-0043vv  
22 Aug 2025 12:34:01

Photo 3 -

<b>Project</b>	<b>DAR2025-0081</b>		<b>BMD Urban</b>	 <b>CMW Geosciences</b> Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11			
By	DA			
Revision	0	21/08/2025 6:09		

# West Elevation

☉ 107°E (T) ☉ 52 S 718569 8616242 ±5m ▲ 22m



Lot 791 to 794 Pad foot compacting LY1

DAR2025- 0043vv  
22 Aug 2025, 13:01:10

Photo 4 -

# South Elevation

☉ 12°N (T) ☉ 52 S 718757 8615957 ±12m ▲ 19m



Lot 816-817 LY1

DAR2025- 0043vv  
22 Aug 2025, 13:31:16

Photo 5 -



Project	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	22/08/2025 3:31	
			<b>BMD Urban</b>



Photo 6 -



Photo 7 -

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	22/08/2025 6:10	
			<b>BMD Urban</b>

## West Elevation

☉ 95°E (T) ● 52 S 718559 8616238 ±7m ▲ 22m



Lot 791 - 794

DAR2025- 0043vv  
25 Aug 2025, 10:39:43

Photo 8 -

## North West Elevation


☉ 155°SE (T) ● 52 S 718748 8616094 ±6m ▲ 23m



Southeast lots from 817

DAR2025- 0043vv  
25 Aug 2025, 11:02:42

Photo 9 -

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	25/08/2025 1:09	
			<b>BMD Urban</b>

## East Elevation

☉ 291°W (T) ● 52 S 718762 8616087 ±8m ▲ 22m




Photo 1 - DAR2025- 2025-08-25 Southeast lots from 817 11-45-02

## South East Elevation

☉ 310°NW (T) ● 52 S 718762 8616087 ±19m ▲ 18m



Photo 2 - DAR2025- \_2025-08-25\_Southeast lots from 817\_11-45-23

Project	DAR2025-0081		 <p><b>CMW</b> Geosciences Great People   Practical Solutions</p>
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	25/08/2025 2:15	
			<b>BMD Urban</b>

## South East Elevation

☉ 314°NW (T) ☉ 52 S 718768 8615993 ±11m ▲ 22m



Working on Lot 817 to 813

DAR2025-0081  
27 Aug 2025, 10:47:43

Photo 24 -

## North East Elevation


☉ 220°SW (T) ☉ 52 S 718736 8616040 ±38m ▲ 14m



Lot 806 to 811

DAR2025-0081  
27 Aug 2025, 11:59:50

Photo 25 -

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	27/08/2025 1:17	

## North Elevation

☉ 185°S (T) ☉ 52 S 718752 8616094 ±4m ▲ 23m



Lot 817 to 815 pad foot compacting fill

DAR2025-0081  
27 Aug 2025, 12:02:08

Photo 26 -

## North East Elevation


☉ 206°SW (T) ☉ 52 S 718769 8616111 ±8m ▲ 23m



Lot 817 to 815 pad foot compacting fill,  
grader levelling fill

DAR2025-0081  
27 Aug 2025, 12:02:59

Photo 27 -

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	27/08/2025 2:32	

## North West Elevation

☉ 151°SE (T) ● 52 S 718557 8616019 ±38m ▲ 22m



Working on Lot 1-81

DAR2025-0081  
28 Aug 2025, 10:08:31

Photo 28 -

## South West Elevation


☉ 29°NE (T) ● 52 S 718730 8616026 ±5m ▲ 20m



Lot 815 to 817

DAR2025-0081  
28 Aug 2025, 10:14:54

Photo 29 -

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	28/08/2025 12:3	

## North West Elevation

☉ 126°SE (T) ● 52 S 718555 8616249 ±11m ▲ 23m




Photo 30 -

## West Elevation

☉ 111°E (T) ● 52 S 718556 8616244 ±7m ▲ 23m

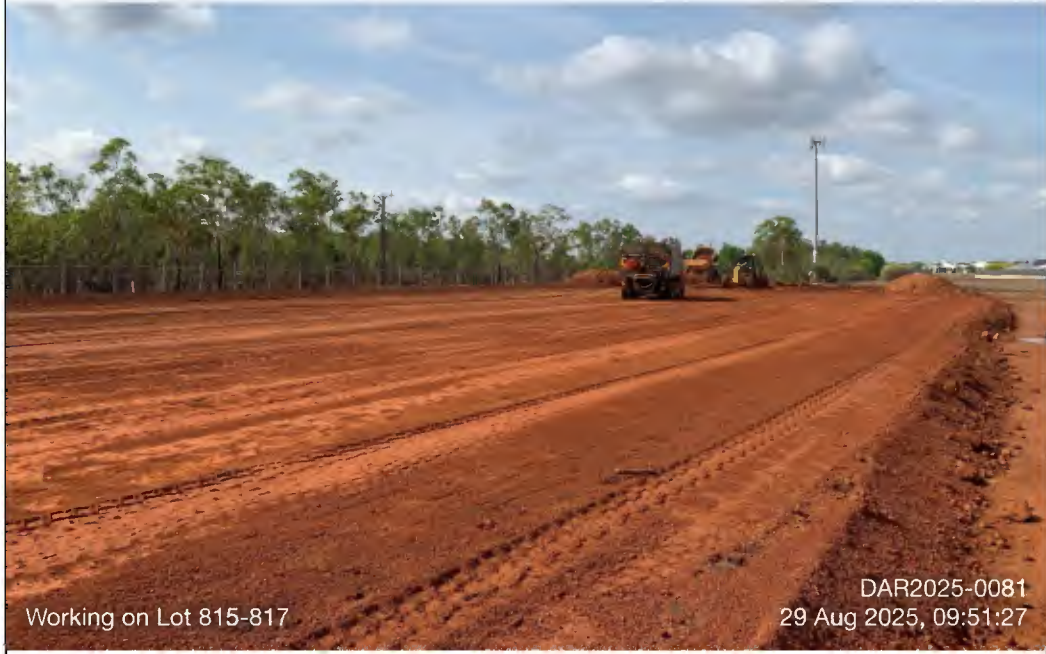


Photo 31 -

<b>Project</b>	<b>DAR2025-0081</b>		 <p><b>CMW</b> Geosciences Great People   Practical Solutions</p>
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	28/08/2025 1:47	
			<b>BMD Urban</b>

## South East Elevation

☉ 296°NW (T) ● 52 S 718728 8616091 ±47m ▲ 18m



Working on Lot 815-817

DAR2025-0081  
29 Aug 2025, 09:51:27

Photo 32 -

## East Elevation


☉ 277°W (T) ● 52 S 718583 8616159 ±6m ▲ 19m



Working on Lot 815-817

DAR2025-0081  
29 Aug 2025, 09:54:58

Photo 33 -

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	29/08/2025 12:2	

# North East Elevation

📍 237°SW (T) 📍 52 S 718722 8616093 ±34m ▲ 22m



Scraper placing fill on Lot 688-693

DAR2025-0081  
29 Aug 2025, 10:59:00

Photo 34 -

# East Elevation


📍 248°W (T) 📍 52 S 718730 8616077 ±9m ▲ 22m



Scraper placing fill on Lot 688-693

DAR2025-0081  
29 Aug 2025, 10:59:54

Photo 35 -

<b>Project</b>	<b>DAR2025-0081</b>		 <p><b>CMW</b> Geosciences Great People   Practical Solutions</p>
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	29/08/2025 1:29	

**BMD Urban**

# West Elevation

☉ 86°E (T) ● 52 S 718729 8616276 ±992m ▲ 20m



Scraper placing fill on Lot 813 to 815

DAR2025-0081  
01 Sep 2025, 15:04:55

Photo 36 -

# Aztec Ct Zuccoli NT


☉ 46°NE (T) ● 52 S 718548 8616181 ±14m ▲ 20m



Lot 688-692 Ready to test LY2

DAR2025-0081  
01 Sep 2025, 15:06:43

Photo 37 -

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	01-Sep-25	

**BMD Urban**

**CMW** Geosciences  
Great People | Practical Solutions

## South East Elevation

☉ 312°NW (T) ● 52 S 718716 8616009 ±179m ▲ 19m



DCP 3 - adjacent to Lot 809 east border

Photo 38 -


## South East Elevation

☉ 309°NW (T) ● 52 S 718667 8616040 ±106m ▲ 34m



DCP 2 - East Boarder of Lot 799

Photo 39 -

<b>Project</b>	<b>DAR2025-0081</b>			 <b>CMW</b> Geosciences <small>Great People   Practical Solutions</small>
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11			
By	DA			
Revision	0	01-Sep--25	<b>BMD Urban</b>	

# South East Elevation

☉ 335°NW (T) ● 52 S 718735 8616106 ±142m ▲ 19m



DGP 1 - 5m from Lot 780 Col de sac

DAR2025-0081  
01 Sep 2025, 15:37:36

Photo 40 -

# North East

☉ 41°NE (T) ● 52 S 718597 8616097 ±4m ▲ 19m



tec Court Cal-de-sac proof minor  
deflections, need scraped off top

03 Sep 2025, 15:08:31

Photo 41 -


Project	DAR2025-0081		
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	03-Spe-25	
			BMD Urban



Photo 41 - DAR2025-0081\_2025-09-03\_DCP4\_15-30-40

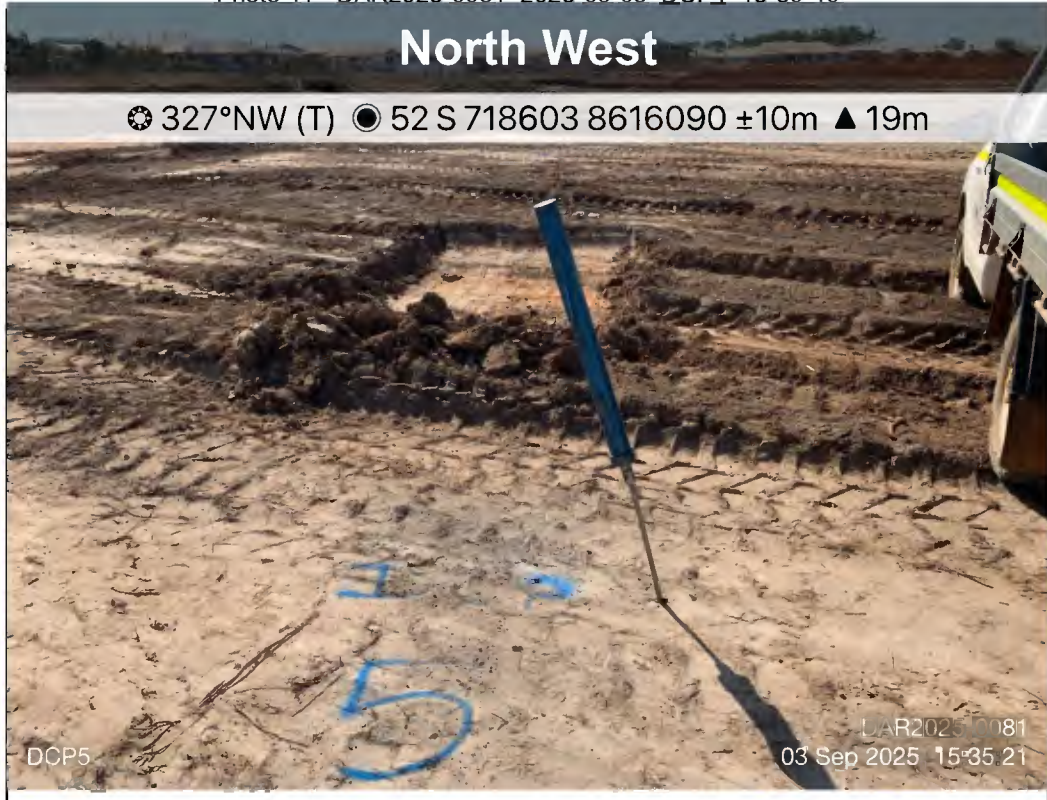


Photo 42 - DAR2025-0081\_2025-09-03\_DCP5\_15-35-21


<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	03-Sep-25	



Photo 43 - DAR2025-0081\_2025-09-03\_DCP6\_15-46-26

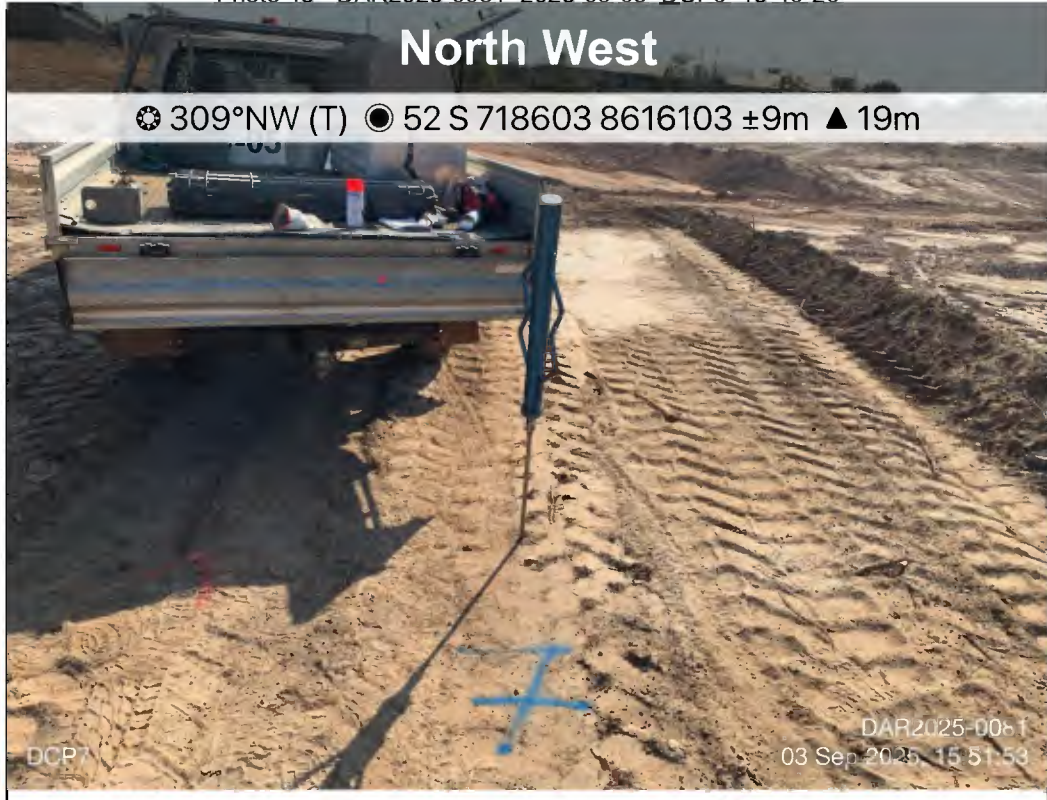


Photo 44 - DAR2025-0081\_2025-09-03\_DCP7\_15-51-53

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	03-Sep-25	
			<b>BMD Urban</b>

# South East

☉ 137°SE (T) ● 52 S 718594 8616101 ±5m ▲ 20m



DCP8

DAR2025-0081  
03-Sep-2025, 15:59:24

Photo 45 - DAR2025-0081\_2025-09-03\_DCP8\_15-59-24

# East


☉ 89°E (T) ● 52 S 718594 8616096 ±5m ▲ 18m

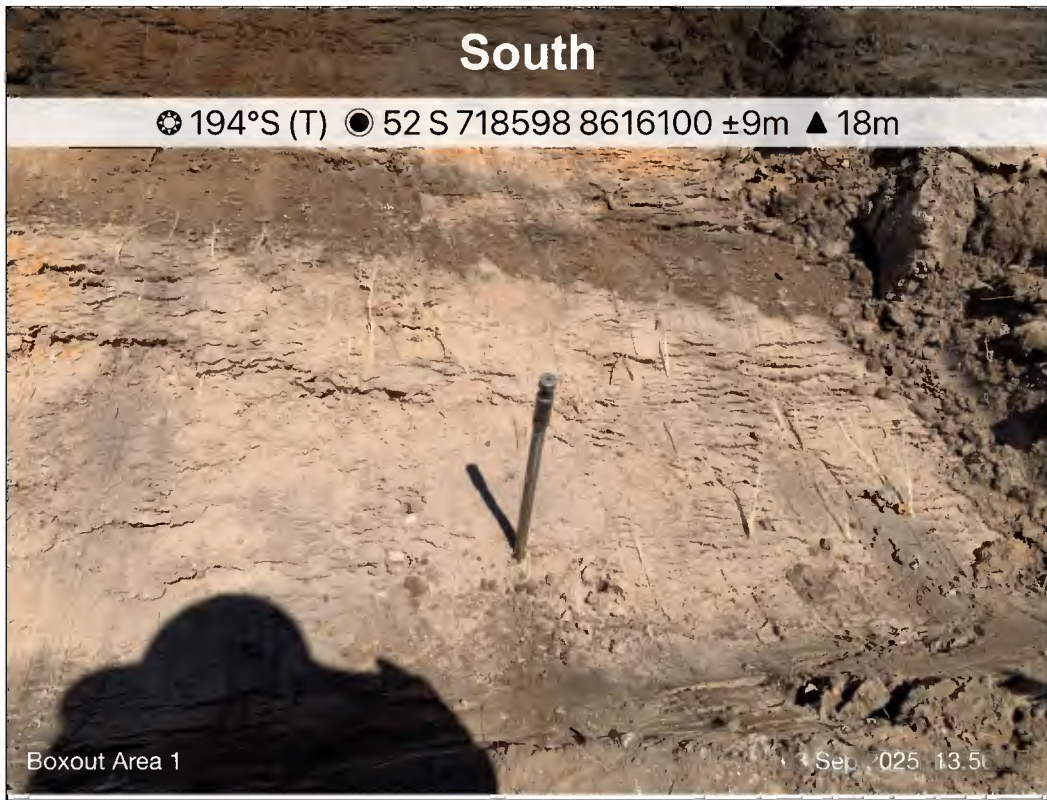



DCP9

DAR2025-0081  
03-Sep-2025, 16:09:09


Photo 46 - DAR2025-0081\_2025-09-03\_DCP9\_16-09-09

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	03-Sep-25	
			<b>BMD Urban</b>



<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	03-Sep-25	



<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	03-Sep-25	

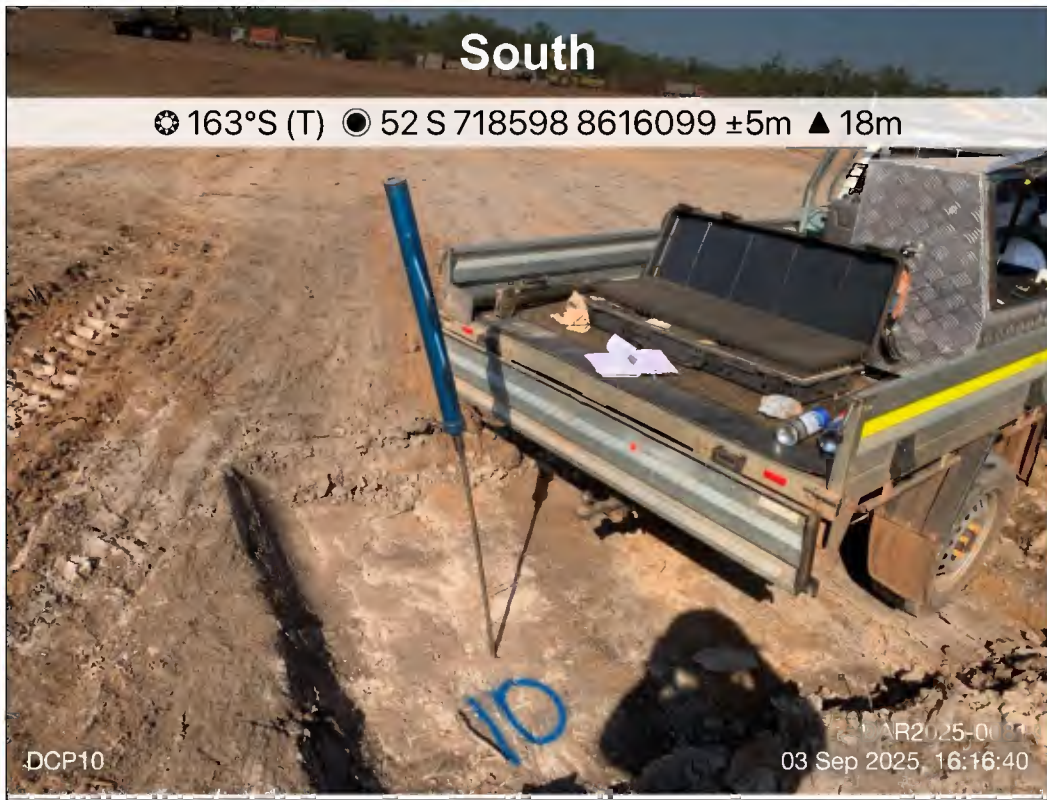



Photo 47 - DAR2025-0081 2025-09-03 DCP10 16-16-40



<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	04-Sep-25	
			<b>BMD Urban</b>

# North West

📍 317°NW (T) 📍 52 S 718691 8616205 ±42m ▲ 25m



Working on Lot 691-695

DAR2025-0081v  
04 Sep 2025, 13:34:04


# East

📍 80°E (T) 📍 52 S 718556 8616229 ±20m ▲ 22m



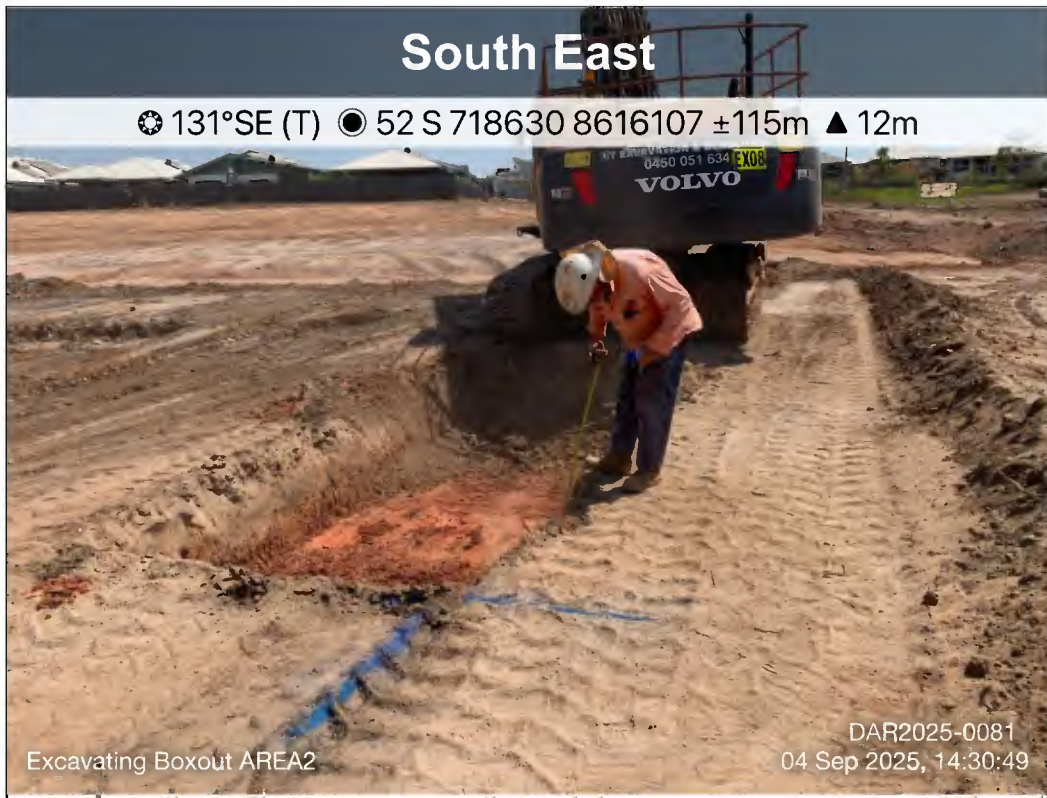
Working on Lot 794-796

DAR2025-0081v  
04 Sep 2025, 14:13:48

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	04-Sep-25	

## South East

☉ 131°SE (T) ● 52 S 718630 8616107 ±115m ▲ 12m



Excavating Boxout AREA2

DAR2025-0081  
04 Sep 2025, 14:30:49


## South East

☉ 121°SE (T) ● 52 S 718564 8616235 ±5m ▲ 22m



Lot 688-692 L2

DAR2025-0081v  
05 Sep 2025, 12:07:28

Project	DAR2025-081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	05-Sep-25	
			<b>BMD Urban</b>

# South East

☉ 116°SE (T) ● 52 S 718551 8616189 ±14m ▲ 20m



Lot 688-692 L2

DAR2025-0081v  
05 Sep 2025, 12:15:43


# West

☉ 281°W (T) ● 52 S 718612 8616162 ±4m ▲ 19m




Proof roll grey area road batter

DAR2025-0081v  
05 Sep 2025, 12:17:34

Project	DAR2025-0081		
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	05-Sep-25	
			BMD Urban



<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	08-Sep-25	
			<b>BMD Urban</b>

# West

☉ 251°W (T) ● 52 S 718610 8616121 ±99m ▲ 32m



AREA 2 - Boxed out area backfill

DAR2025-0081  
08 Sep 2025, 12:53:28

DAR2025-0081\_2025-09-08 AREA 2 - Boxed out area backfill\_12-53-28

# East


☉ 76°E (T) ● 52 S 718555 8616212 ±10m ▲ 20m



Working on Lot 688-695 LY1

DAR2025-0081  
08 Sep 2025, 12:54:50

DAR2025-0081\_2025-09-08\_Working on Lot 688-695 LY1\_12-54-50

<b>Project</b>	<b>DAR2025-0081</b>		<b>BMD Urban</b>	 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11			
<b>By</b>	DA			
<b>Revision</b>	0	08-Sep-25		

# South East

☉ 120°SE (T) ● 52 S 718562 8616234 ±12m ▲ 22m



Working on Lot 688-695 LY1

DAR2025-0081  
08 Sep 2025, 12:56:24

51 - DAR2025-0081\_2025-09-08\_Working on Lot 688-695 LY1\_12-

# West


☉ 260°W (T) ● 52 S 718732 8616204 ±9m ▲ 23m



Working on Lot 688-695 LY2

DAR2025-0081  
09 Sep 2025, 10:02:15

Photo 52 - DAR2025-0081\_2025-09-09\_Working on Lot 688-695 LY2\_10-02-15

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	09-Sep-25	
			<b>BMD Urban</b>

# South East

☉ 132°SE (T) ● 52 S 718558 8616247 ±9m ▲ 23m



Working on Lot 688-695 LY2

DAR2025-0081  
09 Sep 2025, 10:33:41

53 - DAR2025-0081\_2025-09-09\_Working on Lot 688-695 LY2\_10-

# South East

☉ 128°SE (T) ● 52 S 718561 8616245 ±8m ▲ 22m



Working on Lot 688-695 LY2

DAR2025-0081  
09 Sep 2025, 10:37:43

Photo 54 - DAR2025-0081\_2025-09-09\_Working on Lot 688-695 LY2\_10-37-43

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	09-Sep-25	
			<b>BMD Urban</b>

# East

☉ 81°E (T) ☉ 52 S 718559 8616250 ±8m ▲ 23m



Working on Lot 688-695 LY2

DAR2025-0081  
09 Sep 2025, 10:52:14

55 - DAR2025-0081 2025-09-09 Working on Lot 688-695 LY2 10-

# South West Elevation


☉ 45°NE (T) ☉ 52 S 717380 8616785 ±1185m ▲ 23m



Concrete crushed stockpile

DAR2025-0081  
10 Sep 2025, 14:16:50

Photo 56 - DAR2025-0081\_2025-09-10\_Concrete crushed stockpile\_14-16-50

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	09-Sep-25	
			<b>BMD Urban</b>

# North East Elevation

☉ 245°SW (T) ☉ 52 S 718590 8616274 ±10m ▲ 24m



DCP1

DAR2025-0081  
10 Sep 2025, 14:17:57

Photo 57 - DAR2025-0081\_2025-09-10\_DCP1\_14-17-57

# North East Elevation


☉ 238°SW (T) ☉ 52 S 718556 8616221 ±10m ▲ 21m



DCP1

DAR2025-0081  
10 Sep 2025, 14:19:17

Photo 58 - DAR2025-0081\_2025-09-10\_DCP1\_14-19-17

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	0-Sep-25	

## West Elevation

☉ 72°E (T) ☉ 52 S 718729 8615993 ±18m ▲ 20m



Rock fill Area - Adjacent to 810 and 811

DAR2025-0081  
10 Sep 2025, 14:23:21

DAR2025-0081\_2025-09-10\_Rock fill Area - Adjacent to 810 and 811

## North East Elevation


☉ 211°SW (T) ☉ 52 S 718559 8616184 ±51m ▲ 21m



Rock fill contains steel, advised to remove

DAR2025-0081  
11 Sep 2025, 10:27:54

Photo 60 - DAR2025-0081\_2025-09-11\_Rock fill contains steel, advised to remove.\_10-27-54

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	11-Sep-25	

## South Elevation

☉ 344°N (T) ● 52 S 718607 8616111 ±76m ▲ 22m



Rock fill contains steel, advised to remove

DAR2025-0081  
11 Sep 2025, 10:32:49

AR2025-0081\_2025-09-11\_Rock fill contains steel, advised to remo'

## North Elevation


☉ 158°S (T) ● 52 S 718624 8616096 ±7m ▲ 20m



Road batters placing crushed concrete

DAR2025-0081  
11 Sep 2025, 10:33:56

Photo 62 - DAR2025-0081\_2025-09-11\_Road batters placing crushed concrete\_10-33-56

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	11-Sep-25	

# North West Elevation

📍 124°SE (T) 📍 52 S 718613 8616100 ±71m ▲ 28m



Road batters placing crushed concrete at the Cul-de-sec and stockpiling for fill placement

DAR2025-0081  
11 Sep 2025, 10:35:21

-11 Road batters placing crushed concrete at the Cul-de-sec and st

# Zuccoli NT


📍 173°S (T) 📍 52 S 718603 8616098 ±7m ▲ 19m



Tested Area LY 1 & LY2

DAR2025-0081  
12 Sep 2025, 15:13:58

Photo 64 - DAR2025-0081\_2025-09-12\_Testing Area LY 1 & LY2\_15-13-58

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	12-Sep-25	

## Zuccoli NT

☉ 41°NE (T) ☉ 52 S 718659 8615956 ±7m ▲ 20m




Photo 65 - DAR2025-0081\_2025-09-12\_Rock fill Area\_15-33-11

## Zuccoli NT

☉ 43°NE (T) ☉ 52 S 718668 8615975 ±11m ▲ 19m



Photo 66 - DAR2025-0081\_2025-09-12\_Rock fill Area\_15-33-53

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	12-Sep-25	
			<b>BMD Urban</b>

## Zuccoli NT

☉ 93°E (T) ● 52 S 718680 8615978 ±5m ▲ 19m



Rock fill Area Test 2 Lot 809 to 811

DAR2025-0081  
12 Sep 2025, 15:45:54

- DAR2025-0081\_2025-09-12\_Rock fill Area Test 2 Lot 809 to 811

## Aztec Ct Zuccoli NT

☉ 25°NE (T) ● 52 S 718582 8616207 ±8m ▲ 20m



Working on Lot 688-696

DAR2025-0081  
16 Sep 2025, 10:58:36

Photo 68 - DAR2025-0081\_2025-09-16\_Working on Lot 688-696\_10-58-36

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	16-Sep-25	
			<b>BMD Urban</b>

## Zuccoli NT

☉ 317°NW (T) ● 52 S 718670 8616250 ±8m ▲ 22m



Working on Lot 688-696

DAR2025-0081  
16 Sep 2025, 11:24:44

Photo 69 - DAR2025-0081\_2025-09-16\_Working on Lot 688-696\_11-24

## Rodier Cr Zuccoli NT


☉ 68°E (T) ● 52 S 718588 8616269 ±3m ▲ 25m



Working on Lot 688-696

DAR2025-0081  
16 Sep 2025, 11:27:06

Photo 70 - DAR2025-0081\_2025-09-16\_Working on Lot 688-696\_11-27-06

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	16/09/2025 1:54	
			<b>BMD Urban</b>

## Rodier Cr Zuccoli NT

☉ 54°NE (T) ● 52 S 718568 8616269 ±5m ▲ 23m



Unsuitable removed

DAR2025-0081  
16 Sep 2025, 11:28:08

hoto 71 - DAR2025-0081 2025-09-16 Unsuitable removed 11-28-C


## Zuccoli NT

☉ 43°NE (T) ● 52 S 718718 8616236 ±4212m ▲ 24m



Working on Lot 705-711

DAR2025-0034  
18 Sep 2025, 10:07:05

Project	DAR2025-0081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	16/09/2025 1:58	
			<b>BMD Urban</b>

# Aztec Ct Zuccoli NT

☉ 54°NE (T) ☉ 52 S 718584 8616230 ±7m ▲ 21m



Working on Lot 705-711


DAR2025-0034  
18 Sep 2025, 10:34:26

☉ 75°E (T) ☉ 52 S 718579 8616234 ±7m ▲ 21m



Lot 688 to 696 FSL

DAR2025-0034  
18 Sep 2025, 10:41:46

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	18/09/2025 1:04	
			<b>BMD Urban</b>

# Aztec Ct Zuccoli NT

☉ 40°NE (T) ● 52 S 718615 8616216 ±210m ▲ 21m



Lot 688 to 696 FSL5

DAR2025-0034  
18 Sep 2025, 11:53:39




☉ 348°N (T) ● 52 S 718633 8615957 ±15m ▲ 21m



Rock-fill Area Road Batter Aztec Court  
Lot 711 - 705

DAR2025-0081  
19 Sep 2025, 11:30:31

Project	DAR2025-0081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	18/09/2025 2:23	
			<b>BMD Urban</b>

## South East

📍 151°SE (T) 📍 52 S 718577 8616318 ±6m ▲ 26m



Working on Lot 716-723 LY1

DAR2025-0043  
24 Sep 2025, 12:22:49


## South

📍 165°S (T) 📍 52 S 718626 8616105 ±6m ▲ 19m



Proof of

DAR2025-0043  
24 Sep 2025, 12:39:56

Project	DAR2025-0081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	24/09/2025 2:52	
			<b>BMD Urban</b>

## North West

☉ 299°NW (T) ● 52 S 718631 8616094 ±8m ▲ 19m



Reinforcement area steel been removed

DAR2025-0043  
24 Sep 2025, 12:42:54


## South

☉ 182°S (T) ● 52 S 718637 8616092 ±6m ▲ 19m



Fill placement at Cul-de-sac on Aztec Court

DAR2024-0081  
25 Sep 2025, 12:21:00


Project	DAR2025-0081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	24/09/2025 3:12	
			<b>BMD Urban</b>



73 - DAR2025-0081 2025-09-19 Unsuitable material removed 11-



Photo 74 - DAR2025-0081\_2025-09-19\_Smooth drum roller compacting, water cart conditioning lots\_11-47-27

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	19/09/2025 2:15	

**BMD Urban**

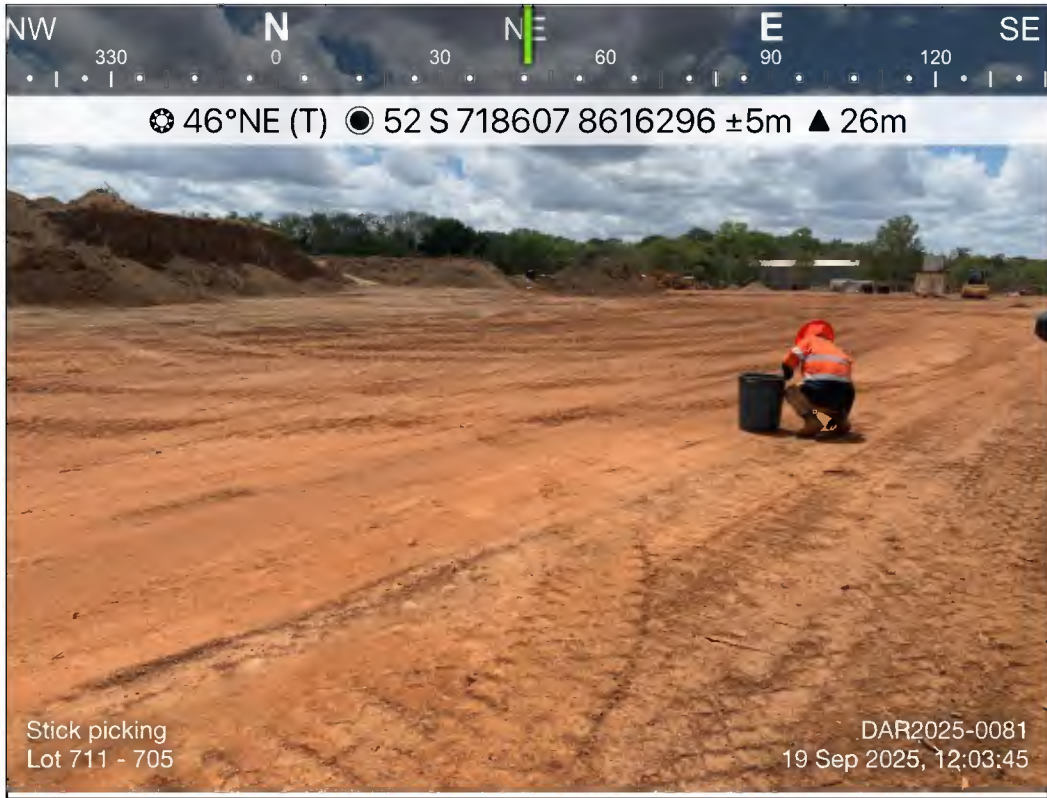



Photo 75 - DAR2025-0081 2025-09-19 Stick picking 12-03-45



Photo 76 - DAR2025-0081\_2025-09-22\_Shaping up, re roll on Lot 706 - 711\_12-14-11

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	19/09/2025 2:33	
			<b>BMD Urban</b>

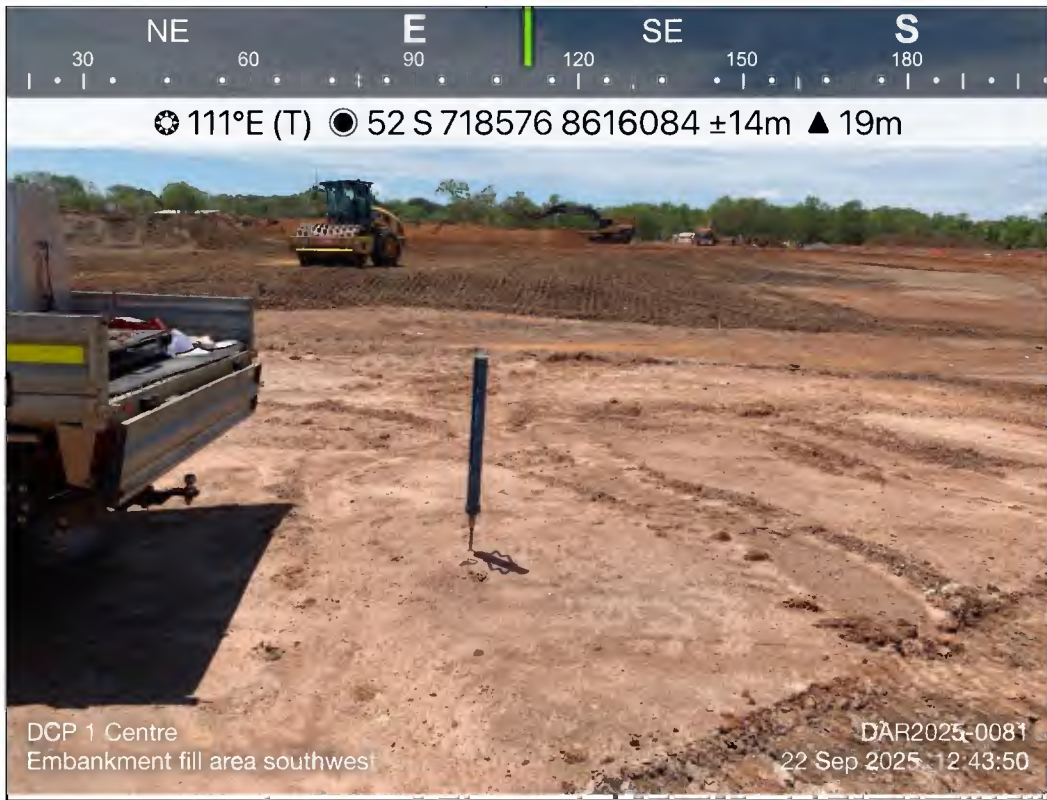


Photo 77 - DAR2025-0081\_2025-09-22\_DCP 1 Centre\_12-43-50

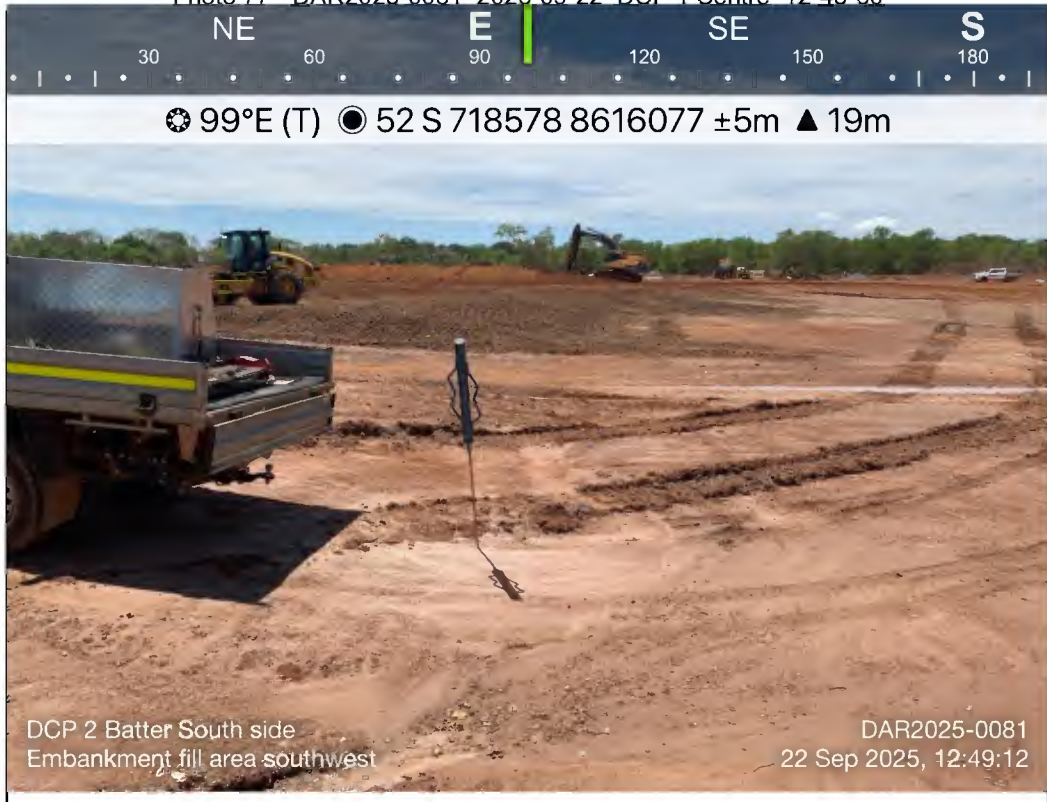


Photo 78 - DAR2025-0081\_2025-09-22\_DCP 2 Batter South side\_12-49-12

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	22/09/2025 3:13	
			<b>BMD Urban</b>



Photo 79 - DAR2025-0081\_2025-09-22\_DCP 3 Batter East side\_12-56

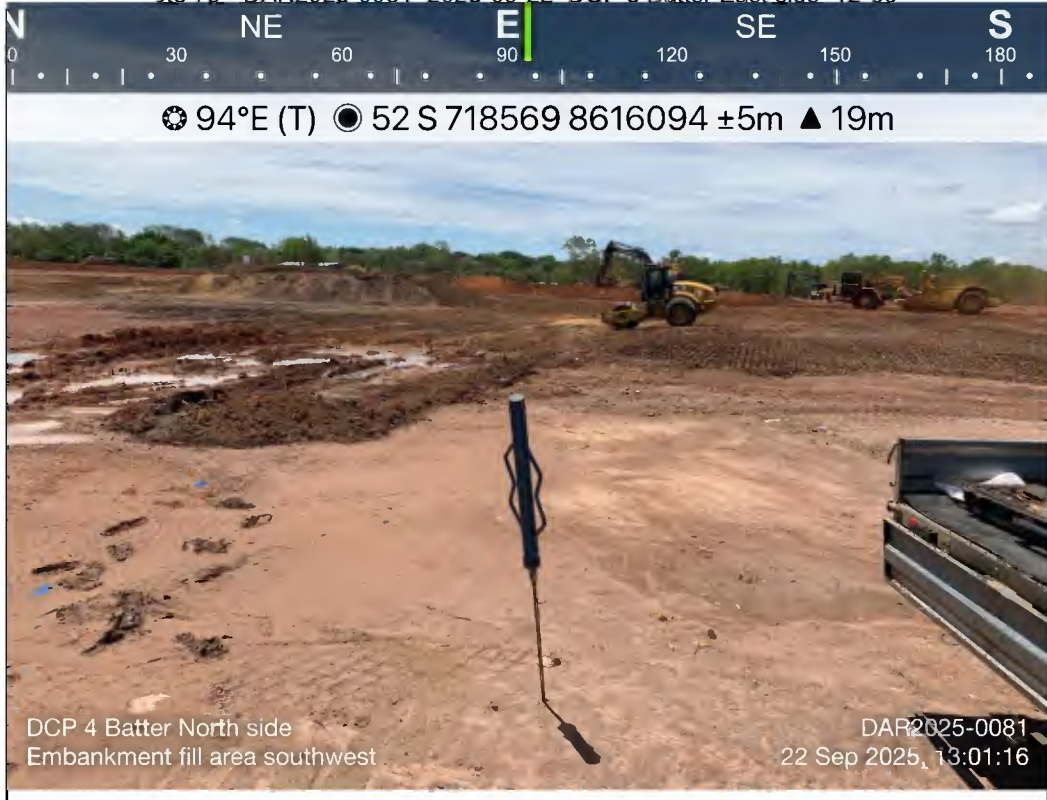


Photo 80 - DAR2025-0081\_2025-09-22\_DCP 4 Batter North side\_13-01-16


<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	22/09/2025 3:26	
			<b>BMD Urban</b>



Photo 81 - DAR2025-0081\_2025-09-22\_DCP 5 West side\_13-07-28



Photo 82 - DAR2025-0081\_2025-09-22\_DCP Area\_13-08-26

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	22/09/2025 3:37	
			<b>BMD Urban</b>



- DAR2025-0081\_2025-09-22\_Shaping up, re roll on Lot 706 - 711



Photo 84 - DAR2025-0081\_2025-09-23\_Pad foot compacting fill LY1 Lot 715 to 722\_10-40-32



<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	22/09/2025 3:54	
			<b>BMD Urban</b>



Photo 85 - DAR2025-0081\_2025-09-23\_Rock fill area\_10-46-33

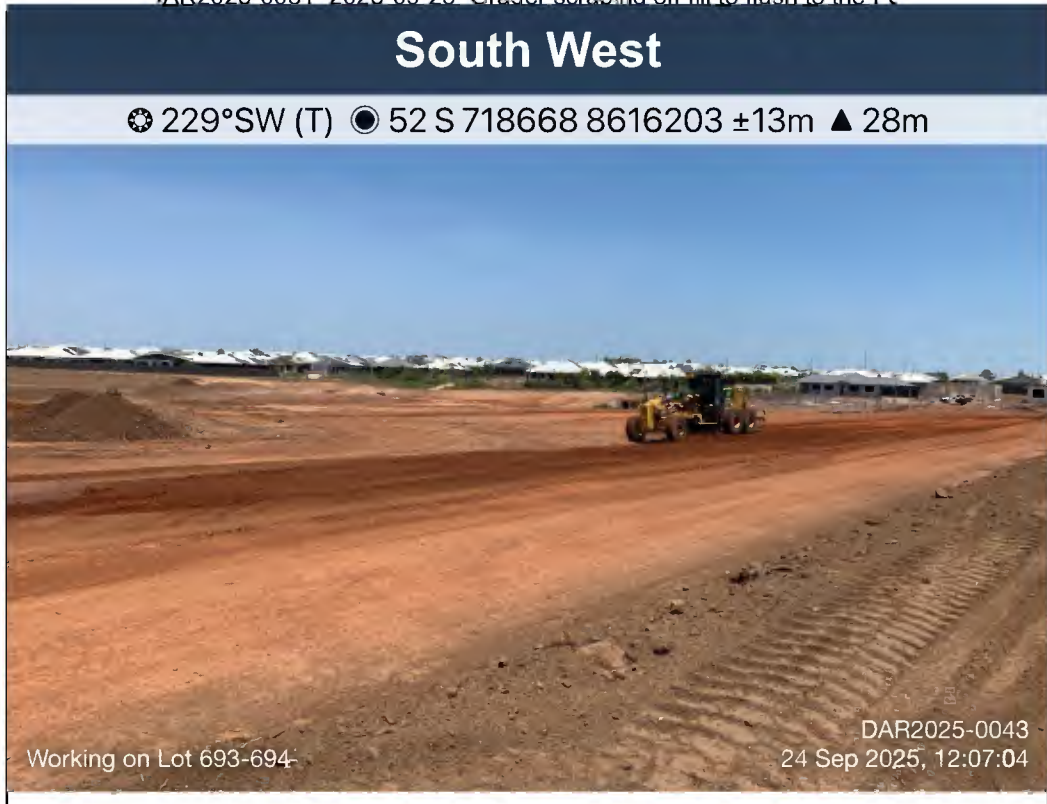


Photo 86 - DAR2025-0081\_2025-09-23\_Rock fill area - Lot 779-780\_10-47-08

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	23/09/2025 1:16	
			<b>BMD Urban</b>



DAR2025-0081 2025-09-23 Grader scraping off fill to flush to the FSL



<b>Project</b>	<b>DAR2025-0081</b>	
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11	
<b>By</b>	DA	
<b>Revision</b>	0	23/09/2025 1:22

**BMD Urban**



# North East

☉ 25°NE (T) ● 52 S 718582 8616325 ±36m ▲ 25m



Fill placement Lot 715-723

DAR2025-0081  
26 Sep 2025, 11:42:02

Photo 91 - DAR2025-0081\_2025-09-26\_Fill placement Lot 715-723\_11-4

# North West


☉ 297°NW (T) ● 52 S 718628 8616099 ±8m ▲ 19m



Proof roll rock fill area Lot 810-811

DAR2025-0081  
26 Sep 2025, 11:56:06

Photo 92 - DAR2025-0081\_2025-09-26\_Proof roll rock fill area Lot 810-811\_11-56-06

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	26/09/2025 2:12	

# North West

☉ 300°NW (T) ● 52 S 718687 8616062 ±8m ▲ 21m




- DAR2025-0081 2025-09-26 Proof roll rock fill area Lot 810-811

# West

☉ 285°W (T) ● 52 S 718682 8616075 ±3m ▲ 20m



Photo 94 - DAR2025-0081\_2025-09-26\_Advice to break over size\_12-25-11

Project	DAR2025-0081		
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	26/09/2025 2:53	
			BMD Urban

# South West

☉ 218°SW (T) ☉ 52 S 718740 8616280 ±164m ▲ 10m



Working on Lot 715-723 LY2

DAR2025-0081  
29 Sep 2025, 11:18:23

95 - DAR2025-0081\_2025-09-29\_Working on Lot 715-723 LY2\_11-

# North

☉ 22°N (T) ☉ 52 S 718587 8616301 ±14m ▲ 25m



Working on Lot 715-723 LY2

DAR2025-0081  
29 Sep 2025, 11:40:14

Photo 96 - DAR2025-0081\_2025-09-29\_Working on Lot 715-723 LY2\_11-40-14


<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	29/09/2025 1:48	
			<b>BMD Urban</b>



2025-0081\_2025-09-29\_Proof roll rock fill- embankment fill area sou



Photo 98 - DAR2025-0081\_2025-09-29\_Working on Lot 715-723 LY2\_12-48-09

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	29/09/2025 3:12	
			<b>BMD Urban</b>

# South West

☉ 233°SW (T) ☉ 52 S 718659 8616091 ±10m ▲ 19m



Fill placement at Cul-de-sac on Aztec Court

DAR2024-0081  
25 Sep 2025, 12:21:42

\\R2024-0081\_2025-09-25\_Fill placement at Cul-de-sac on Aztec Co

# West

☉ 252°W (T) ☉ 52 S 718658 8616053 ±13m ▲ 20m



Unsuitable removed at Aztec Court Roundabout

DAR2024-0081  
25 Sep 2025, 13:00:00

Photo 90 - DAR2024-0081\_2025-09-25\_Unsuitable removed at Aztec Court Roundabout\_13-01-00

<b>Project</b>	<b>DAR2024-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	25/09/2025 2:51	
			<b>BMD Urban</b>

# West

☉ 275°W (T) ☉ 52 S 718606 8616093 ±7m ▲ 18m



Proof roll  
Lot side Embarkment fill southwest

DAR2024-0081  
30 Sep 2025, 13:52:12

R2024-0081 2025-09-30 Proof roll - Embarkment fill southwest Lot

# North West


☉ 300°NW (T) ☉ 52 S 718557 8616287 ±40m ▲ 23m



Smooth drum compacting fill

DAR2024-0081  
30 Sep 2025, 13:59:23

Photo 100 - DAR2024-0081\_2025-09-30\_Smooth drum compacting fill\_13-59-23

Project	DAR2024-0081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	30/09/2025 4:22	
			<b>BMD Urban</b>

# North West

☉ 315°NW (T) ● 52 S 718570 8616292 ±4m ▲ 24m



Smooth drum compacting fill- Cul-de-sac  
Aztec court

DAR2024-0081  
30 Sep 2025, 13:59:35

024-0081\_2025-09-30\_Smooth drum compacting fill- Cul-de-sac Azl

# North West


☉ 313°NW (T) ● 52 S 718568 8616292 ±6m ▲ 24m



Smooth drum compacting fill- Cul-de-sac  
Aztec court

DAR2024-0081  
30 Sep 2025, 13:59:44

Photo 102 - DAR2024-0081\_2025-09-30\_Smooth drum compacting fill- Cul-de-sac Aztec court\_13-59-44

<b>Project</b>	<b>DAR2024-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	30/09/2025 4:29	
			<b>BMD Urban</b>

# North East

☉ 23°NE (T) ● 52 S 718683 8616066 ±18m ▲ 22m



Working on Batters along Aztec Court

DAR2024-0081  
02 Oct 2025, 12:23:25

- DAR2024-0081 2025-10-02 Working on Batters along Aztec Court

# South West


☉ 226°SW (T) ● 52 S 718647 8616122 ±17m ▲ 20m



Pad foot compacting Aztec Crf Roundabout batter.

DAR2024-0081  
02 Oct 2025, 12:27:44

Photo 104 - DAR2024-0081\_2025-10-02\_Pad foot compacting Aztec Crf Roundabout batter.\_12-27-44

<b>Project</b>	<b>DAR2024-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	02-Oct-25	
			<b>BMD Urban</b>

## South East

☉ 136°SE (T) ☉ 52 S 718535 8616145 ±36m ▲ 22m



Working on batters and levelling topsoil.

DAR2024-0081  
02 Oct 2025, 12:38:12

DAR2024-0081 2025-10-02 Working on batters and levelling topsoil

## North East


☉ 35°NE (T) ☉ 52 S 718564 8616219 ±10m ▲ 21m



Water cart conditioning Lots

DAR2024-0081  
02 Oct 2025, 12:40:22

Photo 106 - DAR2024-0081\_2025-10-02\_Water cart conditioning Lots\_12-40-22

<b>Project</b>	<b>DAR2024-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	02-Oct-25	
			<b>BMD Urban</b>

# North West

☉ 305°NW (T) ● 52 S 718665 8616028 ±52m ▲ 43m



Rock fill Area fill placement  
Lots 789-783

DAR2024-0081  
03 Oct 2025, 14:40:39

107 - DAR2024-0081\_2025-10-03\_Rock fill Area fill placement\_14-

# North West

☉ 302°NW (T) ● 52 S 718680 8615963 ±4m ▲ 19m



Grader placing topsoil on batter  
Lots 789-783

DAR2024-0081  
03 Oct 2025, 14:41:06

Photo 108 - DAR2024-0081\_2025-10-03\_Grader placing topsoil on batter\_14-41-06

<b>Project</b>	<b>DAR2024-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	03-Oct-25	

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# North West

☉ 298°NW (T) ☉ 52 S 718687 8615961 ±14m ▲ 18m



Grader placing topsoil on batter  
Lots 789-783

DAR2024-0081  
03 Oct 2025, 14:41:43

09 - DAR2024-0081\_2025-10-03\_Grader placing topsoil on batter\_1

# North West


☉ 320°NW (T) ☉ 52 S 718689 8615965 ±7m ▲ 18m



Digger mixing, conditioning fill  
Lots 789-783

DAR2024-0081  
03-Oct 2025, 14:41:58

Photo 110 - DAR2024-0081\_2025-10-03\_Digger mixing, conditioning fill\_14-41-58

<b>Project</b>	<b>DAR2024-0081</b>		<b>BMD Urban</b>	
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11			
<b>By</b>	DA			
<b>Revision</b>	0	03-Oct-25		

# South

☉ 171°S (T) ☉ 52 S 718637 8616543 ±7m ▲ 25m



Post strip inspection - 741 to 759

DAR2024-0081  
06 Oct 2025, 10:48:38

1 - DAR2024-0081\_2025-10-06\_Post strip inspection - 741 to 759

# North


☉ 8°N (T) ☉ 52 S 718610 8616435 ±5m ▲ 24m



Proof roll - Lot 741 to 759

DAR2024-0081  
06 Oct 2025, 10:59:39

Photo 112 - DAR2024-0081\_2025-10-06\_Proof roll - Lot 741 to 759\_10-59-39

Project	DAR2024-0081		
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	06-Oct-25	
			BMD Urban

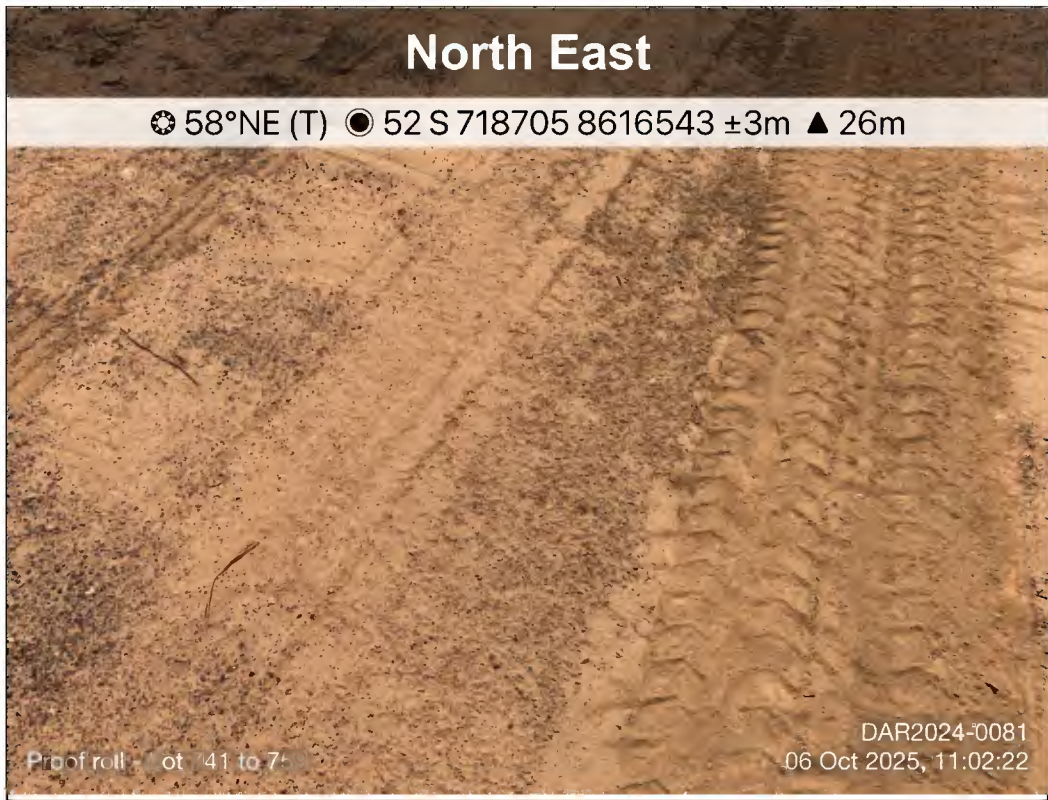


Photo 113 - DAR2024-0081\_2025-10-06\_Proof roll - Lot 741 to 759\_11-03-44



Photo 114 - DAR2024-0081\_2025-10-06\_Proof roll - Lot 741 to 759\_11-03-44

<b>Project</b>	<b>DAR2024-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	06-Oct-25	
			<b>BMD Urban</b>

# West

☉ 278°W (T) ● 52 S 718637 8616423 ±4287m ▲ 42m



Southern embankment- using Geo fabric and placing crushed concrete

DAR205-0081  
08 Oct 2025, 13:58:22

2025-10-08 Southern embankment- using Geo fabric and placing c

# North West

☉ 305°NW (T) ● 52 S 718643 8616176 ±6m ▲ 21m



LY 1 Test 6

DAR205-0081  
08 Oct 2025, 15:30:41

Photo 116 - DAR205-0081\_2025-10-08\_LY 1 Test 6\_15-30-41



<b>Project</b>	<b>DAR205-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	08-Oct-25	
			<b>BMD Urban</b>



Photo 117 - DAR205-0081\_2025-10-10\_Testing Lot 743-745\_11-39-40



Photo 118 - DAR205-0081\_2025-10-10\_Testing Lot 743-745\_11-40-49

<b>Project</b>	<b>DAR205-0081</b>		 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	10-Oct-25	
			<b>BMD Urban</b>

# South East

☉ 152°SE (T) ● 52 S 718624 8616508 ±16m ▲ 26m



Working on Lot 746-753 to the north border

DAR20  
14 Oct 2025, 09:18:11

- DAR20\_2025-10-14\_Working on Lot 746-753 to the north border (

# South


☉ 171°S (T) ● 52 S 718620 8616509 ±6m ▲ 26m



Working on Lot 746-753 to the north border

DAR20  
14 Oct 2025, 09:18:19

Photo 2 - DAR20\_2025-10-14\_Working on Lot 746-753 to the north border\_09-18-19

<b>Project</b>	<b>DAR2025-0081</b>		<b>BMD Urban</b>	 <b>CMW Geosciences</b> Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11			
<b>By</b>	DA			
<b>Revision</b>	0	14/10/2025		

## South East

☉ 153°SE (T) ● 52 S 718622 8616509 ±7m ▲ 26m



Working on Lot 746-753 to the north border

DAR20  
14 Oct 2025, 09:18:46

- DAR20\_2025-10-14\_Working on Lot 746-753 to the north border (

## North East

☉ 34°NE (T) ● 52 S 718620 8616505 ±14m ▲ 26m



Working on Lot 746-753 to the north border

DAR20  
14 Oct 2025, 09:52:37

Photo 4 - DAR20\_2025-10-14\_Working on Lot 746-753 to the north border\_09-52-37

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	14/10/2025	
			<b>BMD Urban</b>

# East

☉ 92°E (T) ☉ 52 S 718738 8616593 ±22m ▲ 27m



Lot 749-750 Ripped and re completed area affected from rain

DAR2025-0081  
16 Oct 2025, 09:51:16

0081\_2025-10-16\_Lot 749-750 Ripped and re completed area affec

# East

☉ 95°E (T) ☉ 52 S 718613 8616402 ±9m ▲ 24m



Lot 749-750 Ripped and re completed area affected from rain

DAR2025-0081  
16 Oct 2025, 09:52:06

0081\_2025-10-16\_Lot 749-750 Ripped and re completed area affec



<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	16/10/2025 12:2	
			<b>BMD Urban</b>



Photo 121 - DAR2025-0081\_2025-10-16\_09-53-18



Photo 122 - DAR2025-0081\_2025-10-16\_Working on Lots 751 - 753\_10-20-02

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	16/10/2025 12:2	
			<b>BMD Urban</b>

## South West Elevation

☉ 31°NE (T) ☉ 52 S 718625 8616536 ±6m ▲ 26m



Grader levelling the batter Lot 746 to 748

DAR2025-0081  
17 Oct 2025, 14:48:06

DAR2025-0081\_2025-10-17\_Grader levelling the batter Lot 746 to 7

## North West Elevation


☉ 117°SE (T) ☉ 52 S 718628 8616557 ±9m ▲ 25m



Pad foot compacting fill on Lot 743 to 745

DAR2025-0081  
17 Oct 2025, 14:48:55

Photo 124 - DAR2025-0081\_2025-10-17\_Pad foot compacting fill on Lot 743 to 745\_14-48-55

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	17/10/2025 5:18	

**BMD Urban**

## East Elevation

☉ 272°W (T) ☉ 52 S 718732 8616546 ±10m ▲ 27m



Thin layer toward the fence on Lot 746 to 748

DAR2025-0081  
17 Oct 2025, 14:51:36

\\R2025-0081\_2025-10-17\_Thin layer toward the fence on Lot 746 to

## South West Elevation


☉ 35°NE (T) ☉ 52 S 718641 8616492 ±25m ▲ 26m



Side tipper stockpiling on Lot 746 to 748

DAR2025-0081  
17 Oct 2025, 15:03:48

Photo 126 - DAR2025-0081\_2025-10-17\_Side tipper stockpiling on Lot 746 to 748\_15-03-48

Project	DAR2025-0081		 <b>CMW</b> Geosciences Great People   Practical Solutions
Ref	Level 1 - Zuccoli Phase 3.9 - 3.11		
By	DA		
Revision	0	17/10/2025 5:21	

## West Elevation

☉ 86°E (T) ● 52 S 718622 8616494 ±164m ▲ 18m



FSL Lot 743 to 745

DAR2025-0081  
20 Oct 2025, 14:22:04

Photo 127 - DAR2025-0081\_2025-10-20\_FSL Lot 743 to 745\_14-22-04

## West Elevation

☉ 110°E (T) ● 52 S 718644 8616460 ±1718m ▲ 26m



Grader levelling and pad foot compacting  
Lot 746 to 748

DAR2025-0081  
20 Oct 2025, 14:22:50

Photo 128 - DAR2025-0081\_2025-10-20\_Grader levelling and pad foot compacting Lot 746 to 748\_14-22-50

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	20/10/2025 4:52	
			<b>BMD Urban</b>

# North West Elevation

☉ 138°SE (T) ● 52 S 718623 8616518 ±8m ▲ 26m



Grader levelling and pad foot compacting  
Lot 746 to 748

DAR2025-0081  
20 Oct 2025, 14:24:18

25-0081\_2025-10-20\_Grader levelling and pad foot compacting Lot 7

# North West Elevation


☉ 142°SE (T) ● 52 S 718625 8616523 ±14m ▲ 26m



Grader levelling and pad foot compacting  
Lot 746 to 748

DAR2025-0081  
20 Oct 2025, 14:24:42

Photo 130 - DAR2025-0081\_2025-10-20\_Grader levelling and pad foot compacting Lot 746 to 748\_14-24-42

<b>Project</b>	<b>DAR2025-0081</b>		
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	20/10/2025 4:54	

**BMD Urban**

**CMW** Geosciences  
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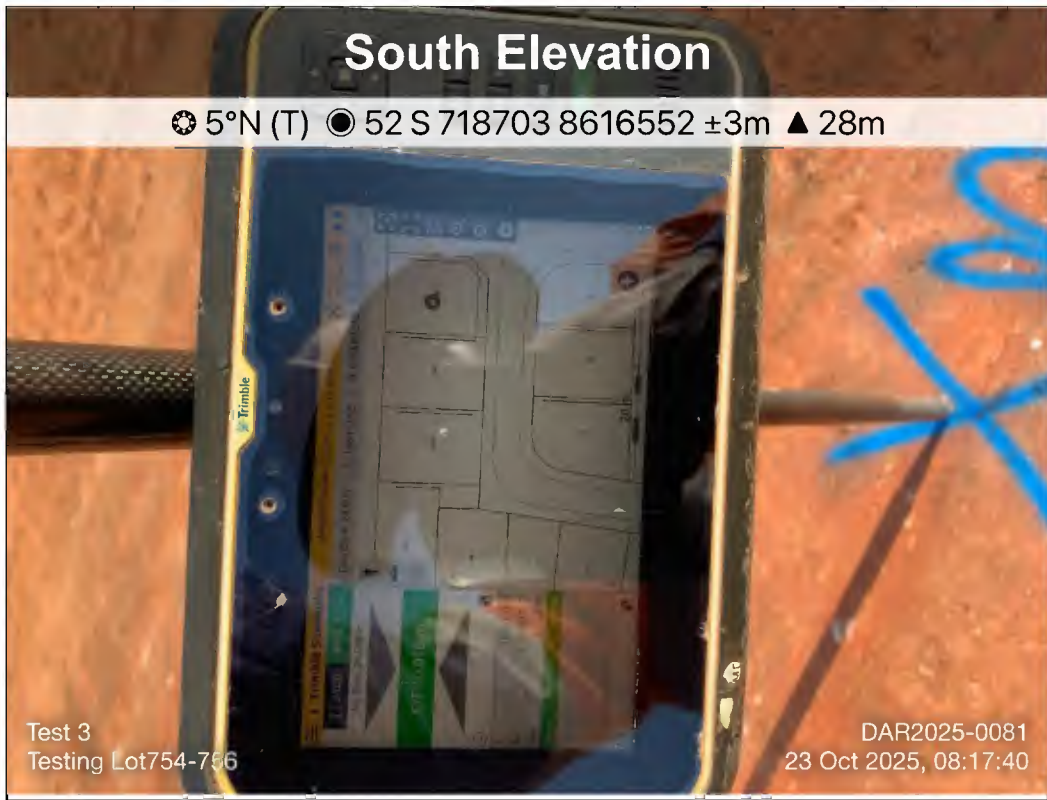



Photo 131 - DAR2025-0081 2025-10-23 Test 3 08-17-40



Photo 132 - DAR2025-0081\_2025-10-23\_Test 1\_08-18-50

<b>Project</b>	<b>DAR2025-0081</b>		 <b>CMW</b> Geosciences Great People   Practical Solutions
<b>Ref</b>	Level 1 - Zuccoli Phase 3.9 - 3.11		
<b>By</b>	DA		
<b>Revision</b>	0	23/10/2025 10:47:40 PM	

# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/14/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9.5

## 8. Time Offsite \*

12.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Phase 3.9 to 3.11

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

An initial site walk-through was undertaken to observe stockpiles, general site conditions, and areas of initial fill placement.

## Machinery Onsite

## 13. Excavators

1

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

1

2

3

4

5

16. Rollers

1

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

1

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

2 x Dump Trucks (ADT), 2 x Excavators

Material Sampling and Testing

20. Material Type/usage \*

Basecourse

Select Fill

General Fill Site Won Fill Imported Fill Subbase Insitu Subgrade Stockpile No

### 21. Material Specification \*

 Main Roads Specification Subdivision Guidelines Specification AS3798: Commercial and Residential Developments Client Specific Specification/Drawings Other

### 22. Sampling Location \*

 Lift 3 Lift 2 Lift 5 Insitu Subgrade Lift 4 Lift 1 No

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/15/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

13

## 8. Time Offsite \*

14

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Phase 3.9 to 3.11

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

A post-strip inspection was carried out on Lots 813 to 819 to confirm topsoil removal and surface condition. Stripping was ongoing at the time of inspection, and some remaining roots (up to approximately 60 mm) and stumps were observed within the lateritic soil. Instructions were given to remove all remaining roots and organic material in accordance with project requirements. The area will be monitored during subsequent site visits.

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

1 2 3 4 5

16. Rollers

1 2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

1 2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

Visual and tactile assessment

Material Sampling and Testing

20. Material Type/usage \*

Basecourse

Stockpile

Site Won Fill

General Fill

Subbase

Insitu Subgrade

Imported Fill

Select Fill

no

21. Material Specification \*

AS3798: Commercial and Residential Developments

Main Roads Specification

Client Specific Specification/Drawings

Subdivision Guidelines Specification

no

22. Sampling Location \*

Lift 4

Lift 3

Insitu Subgrade

Lift 5

Lift 2

Lift 1

Other

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/18/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9

8. Time Offsite \*

14.5

9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Phase 3.9 to 3.11

11. Weather Conditions

i.e. recent rain, hot and humid

hot

12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

A post-strip inspection of the existing trench area was undertaken, confirming that all topsoil had been stripped and the exposed surface was satisfactory. The trench extends from Aztec Court to the northern boundary of the site.

DCP testing was carried out along Aztec Court and adjacent to the existing drain at Lot 794.

Two test pits were excavated in areas where low-strength material had been spread to assess the extent of low-bearing soils. The test pits encountered grey silty gravelly sand underlain by weathered red-brown sandy clay. The silty gravelly sand layer was generally less than 500 mm thick in both test pits. These locations are considered local low points, where the weathered strata were saturated.

Machinery Onsite

13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

1

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Excavator 1 x Water cart Dynamic Cone Penetrometer (DCP) 1 x Pad foot

Material Sampling and Testing

20. Material Type/usage \*

Site Won Fill

- Insitu Subgrade
- General Fill
- Imported Fill
- Basecourse
- Select Fill
- Subbase
- Stockpile
- Other

21. Material Specification \*

- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Client Specific Specification/Drawings
- Main Roads Specification
- Other

22. Sampling Location \*

- Lift 5
- Lift 3
- Lift 1
- Lift 4
- Insitu Subgrade
- Lift 2
- Other

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/19/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9

## 8. Time Offsite \*

12

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lot 698 to 699

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

A post-strip inspection was carried out on Lots 698 to 699, confirming that all topsoil had been stripped and the exposed surface was satisfactory level. Ground is -500 below FSL.

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

2 3 4 5

16. Rollers

2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Water cart 1 x Pad foot

Material Sampling and Testing

20. Material Type/usage \*

Subbase

Basecourse

- Stockpile
- General Fill
- Select Fill
- Site Won Fill
- Imported Fill
- Insitu Subgrade
- Other

### 21. Material Specification \*

- Main Roads Specification
- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Client Specific Specification/Drawings
- Other

### 22. Sampling Location \*

- Lift 4
- Insitu Subgrade
- Lift 2
- Lift 5
- Lift 3
- Lift 1
- Other

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1            3      4      5      6      7      8      9      10

29. Other Testing

DCP testing

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/20/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9

## 8. Time Offsite \*

12.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

existing drain LY 1 and 2, Lots 790 to 794 and Lots 688 to 692

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Earthworks were in progress, including backfilling of the existing drain LY 1 and 2 and tested end of the day. Lots 790 to 794 and Lots 688 to 692 were being prepared for proof rolling. Fill placement is expected to commence following completion of the existing drain backfilling to surrounding ground levels. Moisture within limits.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Side Tippers 1 x Water cart

### Material Sampling and Testing

20. Material Type/usage \*

Select Fill

Stockpile

General Fill Basecourse Subbase Site Won Fill Insitu Subgrade Imported Fill Other

### 21. Material Specification \*

 Subdivision Guidelines Specification AS3798: Commercial and Residential Developments Main Roads Specification Client Specific Specification/Drawings Other

### 22. Sampling Location \*

 Insitu Subgrade Lift 2 Lift 4 Lift 1 Lift 5 Lift 3 Lot CF5, Lot CF1/CF3

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3            5      6      7      8      9      10

25. Particle Size Distribution

     2      3      4      5

26. Atterberg

     2      3      4      5

27. CBR

     2      3      4      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/21/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

11

8. Time Offsite \*

16

9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Existing Drain, Lots 790 to 794 and Lots 688 to 692

11. Weather Conditions

i.e. recent rain, hot and humid

hot

12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Earthworks were in progress, including backfilling and testing of Existing Drain LY3 and LY4.  
Proof rolling was carried out on Lots 790 to 794 and Lots 688 to 692.

## Machinery Onsite

13. Excavators

2

3

4

5

14. Side Tippers

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Articulated Dump Trucks (ADT) 1 x Water cart 1 x Excavator

## Material Sampling and Testing

20. Material Type/usage \*

Site Won Fill

Stockpile

Basecourse Subbase General Fill Insitu Subgrade Imported Fill Select Fill Other

### 21. Material Specification \*

 Main Roads Specification Client Specific Specification/Drawings Subdivision Guidelines Specification AS3798: Commercial and Residential Developments Other

### 22. Sampling Location \*

 Lift 1 Lift 4 Lift 3 Lift 2 Lift 5 Insitu Subgrade Other

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1 2 3 4 5 **6** 7 8 9 10

25. Particle Size Distribution

1 2 3 4 5

26. Atterberg

1 2 3 4 5

27. CBR

1 2 3 4 5

28. DCP

1 2 3 4 5 6 7 8 9 10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/22/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

11

## 8. Time Offsite \*

16

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 816 to 817 (LY1), Lots 790 to 794 (LY1)

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement was carried out on Lots 816 to 817 (LY1). Moisture within limits.

Fill placement was also undertaken on Lots 790 to 794 (LY1), with some areas requiring correction layers due to sloping ground conditions. Material moisture was acceptable during fill placement.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x ADT 1 x Water cart 1 x Excavator 1 x Loader

### Material Sampling and Testing

20. Material Type/usage \*

Subbase

Stockpile

- Basecourse
- Insitu Subgrade
- General Fill
- Imported Fill
- Select Fill
- Site Won Fill
- Other

### 21. Material Specification \*

- Main Roads Specification
- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Client Specific Specification/Drawings
- Other

### 22. Sampling Location \*

- Lift 4
- Lift 1
- Insitu Subgrade
- Lift 3
- Lift 2
- Lift 5
- Other

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

2 3 4 5 6 7 8 9 10

25. Particle Size Distribution

1 2 3 4 5

26. Atterberg

1 2 3 4 5

27. CBR

1 2 3 4 5

28. DCP

1 2 3 4 5 6 7 8 9 10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/25/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

10

## 8. Time Offsite \*

13.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 815 to 817 LY1, Lots 790 to 794, Proof roll conducted on Lot 797 to 811.

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Works were undertaken on Lots 815 to 817 LY1, with material being carted by scraper. Fill placement was also carried out on Lots 790 to 794. Activities were therefore occurring in two areas: the southern portion of the site and the western side of the site. Proof roll conducted on Lot 797 to 811. Moisture within range.

## Machinery Onsite

## 13. Excavators

2

3

4

5

### 14. Side Tippers

1

2

3

4

5

### 15. Water Carts

2

3

4

5

### 16. Rollers

2

3

4

5

### 17. Loaders

1

2

3

4

5

### 18. Graders

2

3

4

5

### 19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Excavator 1 x Grader 1 x Water cart 1 x Scraper 1 x Pad foot

## Material Sampling and Testing

### 20. Material Type/usage \*

Site Won Fill

General Fill

- Subbase
- Imported Fill
- Select Fill
- Stockpile
- Basecourse
- Insitu Subgrade
- Other

### 21. Material Specification \*

- Client Specific Specification/Drawings
- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Main Roads Specification
- Other

### 22. Sampling Location \*

- Insitu Subgrade
- Lift 5
- Lift 2
- Lift 4
- Lift 3
- Lift 1
- Other

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1  3 4 5 6 7 8 9 10

25. Particle Size Distribution

1 2 3 4 5

26. Atterberg

1 2 3 4 5

27. CBR

1 2 3 4 5

28. DCP

1 2 3 4 5 6 7 8 9 10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/27/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9.5

## 8. Time Offsite \*

12.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

i.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 813 to 817 LY2, Lots 806 to 811, Proof roll conducted on Lot 686 to 692

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. i.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement was undertaken on Lots 813 to 817 LY2. A post-strip inspection was carried out on Lots 806 to 811, and instructions were given to remove loose roots and further clean the area to ensure all organic material was removed. Proof roll conducted on Lot 686 to 692. During fill placement, the material moisture condition was acceptable.

## Machinery Onsite

## 13. Excavators

1
---

2

3

4

5

#### 14. Side Tippers

1

2

3

4

5

#### 15. Water Carts

1
---

2

3

4

5

#### 16. Rollers

1
---

2

3

4

5

#### 17. Loaders

1

2

3

4

5

#### 18. Graders

1
---

2

3

4

5

#### 19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Excavator 1 x Grader 1 x Water cart 1 x Scraper 1 x Pad foot

### Material Sampling and Testing

#### 20. Material Type/usage \*

Imported Fill

Insitu Subgrade

- General Fill
- Site Won Fill
- Stockpile
- Select Fill
- Basecourse
- Subbase
- Other

21. Material Specification \*

- Client Specific Specification/Drawings
- Main Roads Specification
- AS3798: Commercial and Residential Developments
- Subdivision Guidelines Specification
- Other

22. Sampling Location \*

- Lift 1
- Lift 4
- Insitu Subgrade
- Lift 3
- Lift 5
- Lift 2
- Other

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/28/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9.3

## 8. Time Offsite \*

12

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 813to 817 and Lots 790 to 794. Tested Lot 813 and 814 LY1 &2.

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement was undertaken on Lots 813to 817 and Lots 790 to 794. Other works on site included rock crushing activities within cut areas. Tested Lot 813 and 814 LY1 &2. Material moisture was acceptable during fill placement.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x ADT 2 x Water cart 1 x Excavator 1 x Loader

### Material Sampling and Testing

20. Material Type/usage \*

Stockpile

Imported Fill

Select Fill

Subbase

Basecourse

Site Won Fill

Insitu Subgrade

General Fill

Other

21. Material Specification \*

AS3798: Commercial and Residential Developments

Main Roads Specification

Subdivision Guidelines Specification

Client Specific Specification/Drawings

Other

22. Sampling Location \*

Insitu Subgrade

Lift 5

Lift 4

Lift 1

Lift 2

Lift 3

Other

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

25. Particle Size Distribution

1	2	3	4	5
---	---	---	---	---

26. Atterberg

1	2	3	4	5
---	---	---	---	---

27. CBR

1	2	3	4	5
---	---	---	---	---

28. DCP

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

8/29/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9

## 8. Time Offsite \*

12.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 815 to 817 and Lot 688 to 693 LY1

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement was undertaken on Lots 815 to 817 and Lot 688 to 693 LY1. Moisture within range. Tested Lot 815 LY 1 & 2.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

3

4

5

15. Water Carts

1

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Scraper 1 x Pad foot 1 x ADT2 x Water cart 1 x Excavator 2 x Side Tippers

### Material Sampling and Testing

20. Material Type/usage \*

Select Fill

Insitu Subgrade

- Subbase
- General Fill
- Site Won Fill
- Basecourse
- Stockpile
- Imported Fill
- Other

21. Material Specification \*

- Client Specific Specification/Drawings
- Main Roads Specification
- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Other

22. Sampling Location \*

- Lift 2
- Lift 3
- Lift 5
- Lift 4
- Lift 1
- Insitu Subgrade
- Other

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1  3 4 5 6 7 8 9 10

25. Particle Size Distribution

1 2 3 4 5

26. Atterberg

1 2 3 4 5

27. CBR

1 2 3 4 5

28. DCP

1 2 3 4 5 6 7 8 9 10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/1/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

11

## 8. Time Offsite \*

16

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 813 to 815 and Lots 688 to 693 (LY2), Lots 813 to 817, to Lots 811, 799, and 780

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement was undertaken on Lots 813 to 815 and Lots 688 to 693 (LY2), with material placed at appropriate moisture content. Stockpiling was carried out on Lots 813 to 817.

Three Dynamic Cone Penetrometer (DCP) tests were carried out adjacent to Lots 811, 799, and 780 to assess the presence of any low-strength material prior to fill placement.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

3

4

5

15. Water Carts

1

3

4

5

16. Rollers

2

3

4

5

17. Loaders

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Scraper 1 x Pad foot 1 x ADT 2 x Water cart 1 x Excavator 1 x Loader 2 x Side Tippers

### Material Sampling and Testing

20. Material Type/usage \*

Basecourse

Insitu Subgrade

- Site Won Fill
- Subbase
- General Fill
- Imported Fill
- Stockpile
- Select Fill
- Other

21. Material Specification \*

- Subdivision Guidelines Specification
- Client Specific Specification/Drawings
- AS3798: Commercial and Residential Developments
- Main Roads Specification
- Other

22. Sampling Location \*

- Insitu Subgrade
- Lift 2
- Lift 5
- Lift 3
- Lift 1
- Lift 4
- Other

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4            6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/3/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

11.5

## 8. Time Offsite \*

4

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Proof rolling was carried out around the cul-de-sac at Aztec Court

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Lots 815 to 817 have reached Finished Surface Level (FSL), and these areas will be used for mulch placement. Lots 812 and 813 still require additional fill to achieve FSL.

Proof rolling was carried out around the cul-de-sac at Aztec Court where low-strength material had been spread, and several soft spots were identified. At the cul-de-sac, approximately 200 mm of material was advised to be removed and replaced.

Further north, five DCP tests were undertaken, and a soft spot was identified approximately 50 m from the cul-de-sac. The extent of this area was defined by DCP testing (5 DCPs) and boxed out. The boxed-out area measures approximately 16 m × 15 m × 0.7 m (L × W × D) and will require ripping and replacement. Total 10 DCPs performed.

### Machinery Onsite

#### 13. Excavators

1                      2                      3                      4                      5

#### 14. Side Tippers

1                      2                      3                      4                      5

#### 15. Water Carts

                     2                      3                      4                      5

#### 16. Rollers

1                      2                      3                      4                      5

#### 17. Loaders

1                      2                      3                      4                      5

#### 18. Graders

1                      2                      3                      4                      5

#### 19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Water cart Dynamic Cone Penetrometer (DCP)

### Material Sampling and Testing

#### 20. Material Type/usage \*

- Insitu Subgrade
- General Fill
- Imported Fill
- Site Won Fill
- Subbase
- Stockpile
- Select Fill
- Basecourse
- Other

## 21. Material Specification \*

- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Main Roads Specification
- Client Specific Specification/Drawings
- Other

## 22. Sampling Location \*

- Lift 3
- Lift 2
- Lift 4
- Lift 1
- Insitu Subgrade
- Lift 5
- no

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9     

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/4/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

11

## 8. Time Offsite \*

14.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 691 to 695 LY1 and Lots 790 to 794.

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement was undertaken on Lots 691 to 695 LY1 and Lots 790 to 794. Fill placement was also carried out at the southern end of the site on Lot 812. Material moisture was acceptable during placement. Excavation of the boxed-out area was in progress.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

1

3

4

5

16. Rollers

1

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

1

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

2 x Grader 2 x Roller 2 x Water cart 1 x Excavator

Material Sampling and Testing

20. Material Type/usage \*

General Fill

Basecourse

- Subbase
- Site Won Fill
- Select Fill
- Insitu Subgrade
- Imported Fill
- Stockpile
- Other

21. Material Specification \*

- Subdivision Guidelines Specification
- Main Roads Specification
- Client Specific Specification/Drawings
- AS3798: Commercial and Residential Developments
- Other

22. Sampling Location \*

- Lift 3
- Insitu Subgrade
- Lift 4
- Lift 5
- Lift 1
- Lift 2
- no

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/5/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

10.5

**8. Time Offsite \***

13

**9. Inspection Type \***

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

**10. Main Lot Location/working area \***

i.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 688 to 695, Aztec Court batter at the west side

**11. Weather Conditions**

i.e. recent rain, hot and humid

hot

**12. General Observations \***

Description of the works undertaken during time onsite. i.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement was undertaken on Lots 688 to 695 (LY2). Layers 1 and 2 were tested and achieved good density with consistent moisture during placement.

Proof rolled Aztec Court batter at the west side.

**Machinery Onsite****13. Excavators**

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

1 2 3 4 5

16. Rollers

1 2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

1 2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x ADT 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

Basecourse

Insitu Subgrade

- Select Fill
- Stockpile
- Subbase
- Site Won Fill
- General Fill
- Imported Fill
- Other

### 21. Material Specification \*

- Client Specific Specification/Drawings
- AS3798: Commercial and Residential Developments
- Main Roads Specification
- Subdivision Guidelines Specification
- Other

### 22. Sampling Location \*

- Lift 3
- Lift 2
- Lift 4
- Lift 5
- Lift 1
- Insitu Subgrade
- Other

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3            5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/8/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

10.5

## 8. Time Offsite \*

13.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 688 to 695 (LY2).

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued Lots 688 to 695 (LY2). Backfilling of the boxed-out area was undertaken.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

1

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Scraper 1 x Pad foot 2 x Water cart 1 x Excavator

Material Sampling and Testing

20. Material Type/usage \*

Site Won Fill

Subbase

- Imported Fill
- Select Fill
- General Fill
- Stockpile
- Insitu Subgrade
- Basecourse
- Other

21. Material Specification \*

- Subdivision Guidelines Specification
- Main Roads Specification
- AS3798: Commercial and Residential Developments
- Client Specific Specification/Drawings
- Other

22. Sampling Location \*

- Lift 2
- Lift 5
- Lift 1
- Insitu Subgrade
- Lift 3
- Lift 4
- No

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

1/9/2026



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9

## 8. Time Offsite \*

13

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 688 to 695 (LY2).

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued Lots 688 to 695 (LY2). Material moisture was acceptable during fill placement.

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

2 3 4 5

16. Rollers

2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Scraper 1 x Pad foot 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

Subbase

Stockpile

Imported Fill

Select Fill

Site Won Fill

Basecourse

Insitu Subgrade

General Fill

Other

21. Material Specification \*

AS3798: Commercial and Residential Developments

Main Roads Specification

Subdivision Guidelines Specification

Client Specific Specification/Drawings

Other

22. Sampling Location \*

Insitu Subgrade

Lift 1

Lift 2

Lift 5

Lift 3

Lift 4

N/A

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/10/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

13

8. Time Offsite \*

15.5

9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 688 to 695. Lots 810 to 81, Lots 779 to 780.

11. Weather Conditions

i.e. recent rain, hot and humid

hot

12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Works continued Lots 688 to 695.

Rockfill areas adjacent to Lots 810 to 811 were inspected. In the rockfill area adjacent to Lots 779 to 780, a significant amount of oversize material was observed; therefore, acceptance will rely on proof rolling, as laboratory density testing is not suitable due to the oversized particles. A sample was taken from the crushed rock stockpile for quality testing. On site in cut material was sampled for testing.

Machinery Onsite

13. Excavators

1                      2                      3                      4                      5

14. Side Tippers

1                      2                      3                      4                      5

15. Water Carts

                     2                      3                      4                      5

16. Rollers

                     2                      3                      4                      5

17. Loaders

1                      2                      3                      4                      5

18. Graders

                     2                      3                      4                      5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Scraper 1 x Pad foot 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

Select Fill

- Stockpile
- Imported Fill
- General Fill
- Subbase
- Site Won Fill
- Insitu Subgrade
- Basecourse
- Rockfill

## 21. Material Specification \*

- Client Specific Specification/Drawings
- Subdivision Guidelines Specification
- Main Roads Specification
- AS3798: Commercial and Residential Developments
- Other

## 22. Sampling Location \*

- Lift 1
- Insitu Subgrade
- Lift 2
- Lift 5
- Lift 4
- Lift 3
- Stockpile

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1            3      4      5

26. Atterberg

1            3      4      5

27. CBR

1            3      4      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Testing will be depend on the oversize present in the samples. If the oversize is exceeding the limit proof roll need to be use for testing.

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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/11/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9

## 8. Time Offsite \*

12

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 688 to 695 (LY3)

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued Lots 688 to 695 (LY3), with testing conducted on Layers 1, 2, and 3. Crushed concrete was placed on the road batters along Aztec Court from the western end past the cul-de-sac to the southern section. Material was being carted to the cul-de-sac for placement. Some crushed steel pieces (rebar) were observed within the crushed concrete on the batters, and instructions were given to remove these from the placement area.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator

Material Sampling and Testing

20. Material Type/usage \*

Imported Fill

Insitu Subgrade

- Stockpile
- General Fill
- Subbase
- Basecourse
- Select Fill
- Site Won Fill
- Other

### 21. Material Specification \*

- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Client Specific Specification/Drawings
- Main Roads Specification
- Other

### 22. Sampling Location \*

- Lift 5
- Lift 4
- Lift 1
- Insitu Subgrade
- Lift 3
- Lift 2
- Other

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5            7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/12/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

13

## 8. Time Offsite \*

16

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 809 to 811

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Testing was conducted in several areas, including locations that had been boxed out for rip-and-replace works. Testing requirements were dependent on the oversize content present. Rockfill areas at Lots 809 to 811 were assessed to determine oversize content and to confirm the suitability of proof rolling as the acceptance method, as the material exceeded laboratory density testing limits due to oversize particles. Compared to previous inspections, additional fines had been added, and the fill level was approximately 1 m below Finished Surface Level (FSL) at the time of inspection. Testing was also undertaken at the Aztec Court cul-de-sac for Layers 1 and 2. Fill placement has slowed due to trenching work in progress on various parts of the site.

## Machinery Onsite

13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator

Material Sampling and Testing

20. Material Type/usage \*

Basecourse

- Subbase
- Insitu Subgrade
- General Fill
- Imported Fill
- Select Fill
- Site Won Fill
- Stockpile
- Other

## 21. Material Specification \*

- Subdivision Guidelines Specification
- Main Roads Specification
- AS3798: Commercial and Residential Developments
- Client Specific Specification/Drawings
- Other

## 22. Sampling Location \*

- Lift 2
- Lift 4
- Lift 1
- Insitu Subgrade
- Lift 5
- Lift 3
- Rock fill area

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

25. Particle Size Distribution

1	2	3	4	5
---	---	---	---	---

26. Atterberg

1	2	3	4	5
---	---	---	---	---

27. CBR

1	2	3	4	5
---	---	---	---	---

28. DCP

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/16/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

10

## 8. Time Offsite \*

12

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 705 to 711 layer 1 and Lots 688 to 696

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued Lots 705 to 711 layer 1 and Lots 688 to 696 (closer to FSL), with material placed at appropriate moisture content and mixed well. Works also continued in the rockfill area, where moisture was added and advice was given to increase padfoot roller passes to achieve adequate compaction to avoid heaving.

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

2 3 4 5

16. Rollers

1 2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Scraper 1 x Pad foot 1 x Water cart

### Material Sampling and Testing

20. Material Type/usage \*

Stockpile

Subbase

- Insitu Subgrade
- Site Won Fill
- Select Fill
- Imported Fill
- General Fill
- Basecourse
- Other

21. Material Specification \*

- AS3798: Commercial and Residential Developments
- Client Specific Specification/Drawings
- Subdivision Guidelines Specification
- Main Roads Specification
- Other

22. Sampling Location \*

- Lift 4
- Lift 1
- Lift 5
- Insitu Subgrade
- Lift 2
- Lift 3
- N/A

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/18/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9.5

## 8. Time Offsite \*

11.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 705 to 711

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued Lots 705 to 711. Testing was carried out on Lots 688 to 696 at Finished Surface Level (FSL).

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

1 2 3 4 5

16. Rollers

2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Scraper 1 x Water cart

### Material Sampling and Testing

20. Material Type/usage \*

Imported Fill

General Fill

- Insitu Subgrade
- Stockpile
- Select Fill
- Subbase
- Site Won Fill
- Basecourse
- Other

### 21. Material Specification \*

- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Client Specific Specification/Drawings
- Main Roads Specification
- Other

### 22. Sampling Location \*

- Lift 5
- Lift 2
- Insitu Subgrade
- Lift 1
- Lift 4
- Lift 3
- Lot 688 to 696 FSL

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4            6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/19/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

10.5

## 8. Time Offsite \*

12

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 705 to 711 LY2, Lots 809 to 811

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued Lots 705 to 711 LY2. Works also progressed on the Aztec Court Road batters and within the rockfill areas at Lots 809 to 811.

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

2 3 4 5

16. Rollers

2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x ADT 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

Basecourse

Subbase

General Fill

Insitu Subgrade

Select Fill

Site Won Fill

Imported Fill

Stockpile

Other

21. Material Specification \*

Main Roads Specification

AS3798: Commercial and Residential Developments

Client Specific Specification/Drawings

Subdivision Guidelines Specification

Other

22. Sampling Location \*

Insitu Subgrade

Lift 3

Lift 4

Lift 2

Lift 1

Lift 5

N/A

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/22/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

10.5

## 8. Time Offsite \*

13.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 705 to 711 (LY2).

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued Lots 705 to 711 (LY2). Construction of the embankment was undertaken at the remediation area and the southern embankment on the opposite side. DCP testing was carried out at these locations, with six DCP tests completed, confirming the areas were suitable for fill placement. Rockfill and crushed concrete were used as fill material for the embankment.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

1

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Scraper 1 x Pad foot 1 x ADT 2 x Water cart 1 x Excavator Dynamic Cone Penetrometer (DCP)

Material Sampling and Testing

20. Material Type/usage \*

Imported Fill

Stockpile

- Subbase
- Basecourse
- Select Fill
- General Fill
- Insitu Subgrade
- Site Won Fill
- Other

### 21. Material Specification \*

- Main Roads Specification
- Subdivision Guidelines Specification
- Client Specific Specification/Drawings
- AS3798: Commercial and Residential Developments
- Other

### 22. Sampling Location \*

- Lift 3
- Lift 1
- Insitu Subgrade
- Lift 2
- Lift 5
- Lift 4
- N/A

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1 2 3 4 5 6 7 8 9 10

25. Particle Size Distribution

1 2 3 4 5

26. Atterberg

1 2 3 4 5

27. CBR

1 2 3 4 5

28. DCP

1 2 3 4 5  7 8 9 10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/23/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

10.5

## 8. Time Offsite \*

13.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 715 to 722

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement commenced on Lots 715 to 722 (Layer 1). Lots 705 to 711 have reached Finished Surface Level (FSL) and were tested for Layers 1 and 2, with consistent moisture and density achieved across the pads.

## Machinery Onsite

## 13. Excavators

1
---

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

1

2
---

3

4

5

16. Rollers

1
---

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

1
---

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Scraper 1 x Pad foot 1 x ADT 2 x Water cart 1 x Excavator

### Material Sampling and Testing

20. Material Type/usage \*

Stockpile

General Fill

- Select Fill
- Basecourse
- Subbase
- Insitu Subgrade
- Site Won Fill
- Imported Fill
- Other

### 21. Material Specification \*

- Subdivision Guidelines Specification
- Client Specific Specification/Drawings
- Main Roads Specification
- AS3798: Commercial and Residential Developments
- Other

### 22. Sampling Location \*

- Insitu Subgrade
- Lift 1
- Lift 3
- Lift 4
- Lift 5
- Lift 2
- Lift 2 FSL

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      **7**      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/24/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

11.5

## 8. Time Offsite \*

14.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 716 to 723, Lots 790 to 793

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Lots 790 to 793 were being shaped in preparation for topsoil placement. Topsoil has already been placed on Lots 690 to 695. Fill placement continued on Lots 716 to 723, and construction of the embankment was ongoing. Instructions were given to remove any steel parts from the fill material.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator

Material Sampling and Testing

20. Material Type/usage \*

Site Won Fill

Imported Fill

- Basecourse
- Select Fill
- Stockpile
- Subbase
- Insitu Subgrade
- General Fill
- Other

21. Material Specification \*

- Client Specific Specification/Drawings
- Subdivision Guidelines Specification
- Main Roads Specification
- AS3798: Commercial and Residential Developments
- Other

22. Sampling Location \*

- Insitu Subgrade
- Lift 3
- Lift 4
- Lift 1
- Lift 2
- Lift 5
- N/A

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/25/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

12

## 8. Time Offsite \*

14

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Aztec Court cul-de-sac

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued at the Aztec Court cul-de-sac. However, progress was slowed due to ongoing trenching works.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

1

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator

Material Sampling and Testing

20. Material Type/usage \*

Subbase

Basecourse

General Fill

Insitu Subgrade

Imported Fill

Stockpile

Site Won Fill

Select Fill

Other

21. Material Specification \*

Client Specific Specification/Drawings

AS3798: Commercial and Residential Developments

Subdivision Guidelines Specification

Main Roads Specification

Other

22. Sampling Location \*

Lift 3

Lift 5

Lift 4

Lift 1

Insitu Subgrade

Lift 2

N/A

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/26/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

11

## 8. Time Offsite \*

14

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 810 to 811

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Proof rolling was carried out on the rockfill areas at Lots 810 to 811, with no visible deflection or movement observed, and the areas were deemed to have passed proof rolling. Fill placement continued at the Aztec Court cul-de-sac.

## Machinery Onsite

## 13. Excavators

1

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

1

2

3

4

5

16. Rollers

1

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

1

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator 1 x ADT

Material Sampling and Testing

20. Material Type/usage \*

Subbase

General Fill

- Basecourse
- Insitu Subgrade
- Select Fill
- Site Won Fill
- Imported Fill
- Stockpile
- Other

21. Material Specification \*

- Main Roads Specification
- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Client Specific Specification/Drawings
- Other

22. Sampling Location \*

- Lift 5
- Lift 3
- Lift 1
- Lift 2
- Lift 4
- Insitu Subgrade
- N/A

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/29/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

12

## 8. Time Offsite \*

13.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 715 to 723

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued on Lots 715 to 723. Proof rolling was carried out on the embankment along the south-west side, with no visible deflection or movement observed. Minor movement was observed on the lot-side embankment, and advice was given to rip and recompact the upper 200 mm to 300 mm due to trapped moisture restricting compaction.

## Machinery Onsite

## 13. Excavators

2

3

4

5

### 14. Side Tippers

1

2

3

4

5

### 15. Water Carts

2

3

4

5

### 16. Rollers

2

3

4

5

### 17. Loaders

1

2

3

4

5

### 18. Graders

2

3

4

5

### 19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator 1 x ADT

## Material Sampling and Testing

### 20. Material Type/usage \*

Basecourse

Site Won Fill

- Insitu Subgrade
- General Fill
- Subbase
- Stockpile
- Imported Fill
- Select Fill
- Other

21. Material Specification \*

- Main Roads Specification
- Client Specific Specification/Drawings
- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Other

22. Sampling Location \*

- Lift 3
- Lift 4
- Insitu Subgrade
- Lift 5
- Lift 1
- Lift 2
- N/A

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Proof rolling was carried out on the embankment along the south-west side. Passed



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

9/30/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

12.5

## 8. Time Offsite \*

16

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 715 to 723, Proof rolling embankment along the lot side

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued on Lots 715 to 723. Proof rolling was carried out on the embankment along the lot side, with no visible deflection or movement observed. Testing was carried out on Lots 715 to 723 for Layer 1 and Layer 2 at Finished Surface Level (FSL).

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator 1 x ADT

Material Sampling and Testing

20. Material Type/usage \*

Basecourse

General Fill

- Insitu Subgrade
- Site Won Fill
- Select Fill
- Imported Fill
- Subbase
- Stockpile
- Other

### 21. Material Specification \*

- Main Roads Specification
- Client Specific Specification/Drawings
- AS3798: Commercial and Residential Developments
- Subdivision Guidelines Specification
- Other

### 22. Sampling Location \*

- Lift 5
- Lift 1
- Lift 3
- Insitu Subgrade
- Lift 2
- Lift 4
- Lift 2 FSL

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9     

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

10/2/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

12.5

## 8. Time Offsite \*

13.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

south-west side of the site

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Topsoil placement was carried out on the sediment basin embankment and batters on the south-west side of the site. Fill placement continued on the southern embankment using crushed concrete and rockfill as fill material.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator

Material Sampling and Testing

20. Material Type/usage \*

Imported Fill

General Fill

- Basecourse
- Select Fill
- Insitu Subgrade
- Stockpile
- Subbase
- Site Won Fill
- Top soil placement

## 21. Material Specification \*

- Client Specific Specification/Drawings
- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Main Roads Specification
- Other

## 22. Sampling Location \*

- Lift 5
- Lift 2
- Lift 3
- Lift 1
- Insitu Subgrade
- Lift 4
- N/A

## 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

10/3/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

12

## 8. Time Offsite \*

15

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 789 to 780

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Topsoil placement continued on the sediment basin embankment and batters. Fill placement was undertaken on Lots 789 to 780.

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart 1 x Excavator

Material Sampling and Testing

20. Material Type/usage \*

Basecourse

Stockpile

- Select Fill
- Site Won Fill
- Subbase
- Imported Fill
- Insitu Subgrade
- General Fill
- Other

### 21. Material Specification \*

- AS3798: Commercial and Residential Developments
- Main Roads Specification
- Subdivision Guidelines Specification
- Client Specific Specification/Drawings
- Other

### 22. Sampling Location \*

- Lift 3
- Lift 2
- Lift 4
- Lift 5
- Lift 1
- Insitu Subgrade
- N/A

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

10/6/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

10.5

## 8. Time Offsite \*

12.5

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 741 to 759, Aztec Court cul-de-sac

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Proof rolling was carried out on Lots 741 to 759, with no visible deflection or movement observed. Instructions were given to remove any sticks prior to material placement. Testing was carried out at the Aztec Court cul-de-sac for Layers 3, 4, 5, and at Finished Surface Level (FSL).

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

2 3 4 5

16. Rollers

1 2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

1 2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Water cart, Visual and tactile assessment

Material Sampling and Testing

20. Material Type/usage \*

Site Won Fill

Insitu Subgrade

- Select Fill
- Imported Fill
- Stockpile
- Basecourse
- General Fill
- Subbase
- Other

### 21. Material Specification \*

- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Main Roads Specification
- Client Specific Specification/Drawings
- Other

### 22. Sampling Location \*

- Lift 5
- Lift 4
- Lift 2
- Insitu Subgrade
- Lift 1
- Lift 3
- FSL

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3            5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

10/10/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

11

## 8. Time Offsite \*

13

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 746 to 750

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Lots 746 to 750 required correction layers. Two 200 mm layers were placed in this area to achieve Finished Surface Level (FSL).

## Machinery Onsite

## 13. Excavators

2

3

4

5

14. Side Tippers

1

2

3

4

5

15. Water Carts

2

3

4

5

16. Rollers

1

2

3

4

5

17. Loaders

1

2

3

4

5

18. Graders

2

3

4

5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

Site Won Fill

Subbase

Imported Fill General Fill Select Fill Insitu Subgrade Basecourse Stockpile Other

### 21. Material Specification \*

 AS3798: Commercial and Residential Developments Subdivision Guidelines Specification Client Specific Specification/Drawings Main Roads Specification Other

### 22. Sampling Location \*

 Lift 5 Lift 1 Lift 2 Lift 3 Insitu Subgrade Lift 4 Correction Layer

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4            6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

10/14/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9

## 8. Time Offsite \*

11

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 746 to 753

## 11. Weather Conditions

i.e. recent rain, hot and humid

Hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued on Lots 746 to 753. Material moisture was acceptable during placement.

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

2 3 4 5

16. Rollers

2 3 4 5

17. Loaders

2 3 4 5

18. Graders

1 2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

General Fill

Imported Fill

Site Won Fill Stockpile Subbase Select Fill Insitu Subgrade Basecourse Other

### 21. Material Specification \*

 Main Roads Specification AS3798: Commercial and Residential Developments Client Specific Specification/Drawings Subdivision Guidelines Specification Other

### 22. Sampling Location \*

 Lift 5 Insitu Subgrade Lift 1 Lift 4 Lift 3 Lift 2 N/A

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

10/16/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

9

## 8. Time Offsite \*

11

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 751 to 753

## 11. Weather Conditions

i.e. recent rain, hot and humid

N/A

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Lots 749 to 750 were ripped and recompactd due to trapped rainwater. Fill placement continued on Lots 751 to 753

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

2 3 4 5

16. Rollers

1 2 3 4 5

17. Loaders

2 3 4 5

18. Graders

2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

Basecourse

Site Won Fill

- Stockpile
- Select Fill
- Imported Fill
- Subbase
- Insitu Subgrade
- General Fill
- Other

### 21. Material Specification \*

- Client Specific Specification/Drawings
- AS3798: Commercial and Residential Developments
- Subdivision Guidelines Specification
- Main Roads Specification
- Other

### 22. Sampling Location \*

- Lift 5
- Lift 3
- Insitu Subgrade
- Lift 1
- Lift 4
- Lift 2
- FSL

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3            5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

10/17/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

14

## 8. Time Offsite \*

16

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 752 to 756

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued on Lots 752 to 756, with material moisture acceptable during placement. Fill supply was limited, and as a result, fill placement in this area progressed slowly.

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

2 3 4 5

16. Rollers

2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

Stockpile

Subbase

Site Won Fill Basecourse General Fill Imported Fill Select Fill Insitu Subgrade Other

### 21. Material Specification \*

 AS3798: Commercial and Residential Developments Subdivision Guidelines Specification Client Specific Specification/Drawings Main Roads Specification Other

### 22. Sampling Location \*

 Lift 1 Lift 3 Insitu Subgrade Lift 2 Lift 4 Lift 5 N/A

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                      2                      3                      4                      5

26. Atterberg

1                      2                      3                      4                      5

27. CBR

1                      2                      3                      4                      5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

10/20/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

14

## 8. Time Offsite \*

15

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 754 to 756

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Fill placement continued on Lots 754 to 756. Material moisture was acceptable during placement.

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

1 2 3 4 5

16. Rollers

1 2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

1 2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

Site Won Fill

Imported Fill

- Subbase
- Basecourse
- General Fill
- Stockpile
- Insitu Subgrade
- Select Fill
- Other

21. Material Specification \*

- Client Specific Specification/Drawings
- Subdivision Guidelines Specification
- AS3798: Commercial and Residential Developments
- Main Roads Specification
- Other

22. Sampling Location \*

- Lift 4
- Lift 3
- Lift 5
- Lift 1
- Lift 2
- Insitu Subgrade
- N/A

23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# Darwin - Level 1 Site Visit Record

## Project Details

1. Date of Site Visit \*

10/23/2025



2. Client \*

BMD Urban

3. Project Number \*

DAR2025-0081

4. Project Details \*

BMD Zuccoli 3.9 to 3.11 Bulk Earthworks Level 1

## Inspection Details

5. Inspecting Personnel \*

i.e. your name in full

Dilush Anthonige

6. Requested By \*

client representative or requesting engineer's name in full

Panayioti Hatzivalsamis

7. Time onsite \*

8

## 8. Time Offsite \*

9

## 9. Inspection Type \*

- Strip Inspection
- Proof Roll
- Earthworks Supervision
- Trench Inspection
- Density Testing
- DCP Testing
- General Inspection

## 10. Main Lot Location/working area \*

I.e. 'Subdivision Lot 55', or 'Sandpiper Road'. can be multiple

Lots 754 to 756

## 11. Weather Conditions

i.e. recent rain, hot and humid

hot

## 12. General Observations \*

Description of the works undertaken during time onsite. I.e. earthworks completed, lots inspected, proof rolling undertaken

Testing on Lots 754 to 756 indicated good density and consistent moisture. Fill placement commenced on Lots 757 to 759.

## Machinery Onsite

## 13. Excavators

1 2 3 4 5

14. Side Tippers

1 2 3 4 5

15. Water Carts

1 2 3 4 5

16. Rollers

1 2 3 4 5

17. Loaders

1 2 3 4 5

18. Graders

1 2 3 4 5

19. Machinery/plant comments

i.e. size of plant, 6 tonne roller, etc.

1 x Grader 1 x Pad foot 1 x Water cart

Material Sampling and Testing

20. Material Type/usage \*

Site Won Fill

Stockpile

Imported Fill Select Fill General Fill Basecourse Insitu Subgrade Subbase Other

### 21. Material Specification \*

 Client Specific Specification/Drawings Main Roads Specification AS3798: Commercial and Residential Developments Subdivision Guidelines Specification Other

### 22. Sampling Location \*

 Lift 4 Lift 3 Lift 2 Lift 5 Insitu Subgrade Lift 1 N/A

### 23. Required Dry Density Ratio

	85	90	95	98	100
Standard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Field Density

1      2      3      4      5      6      7      8      9      10

25. Particle Size Distribution

1                  2                  3                  4                  5

26. Atterberg

1                  2                  3                  4                  5

27. CBR

1                  2                  3                  4                  5

28. DCP

1      2      3      4      5      6      7      8      9      10

29. Other Testing

Enter your answer

30. Further Remarks

Instructions, advice (received from client or given to client/subcontractors). Meetings/Conversations

Enter your answer



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# APPENDIX C

Laboratory Test Certificates

DCP Results (Low-Strength material)

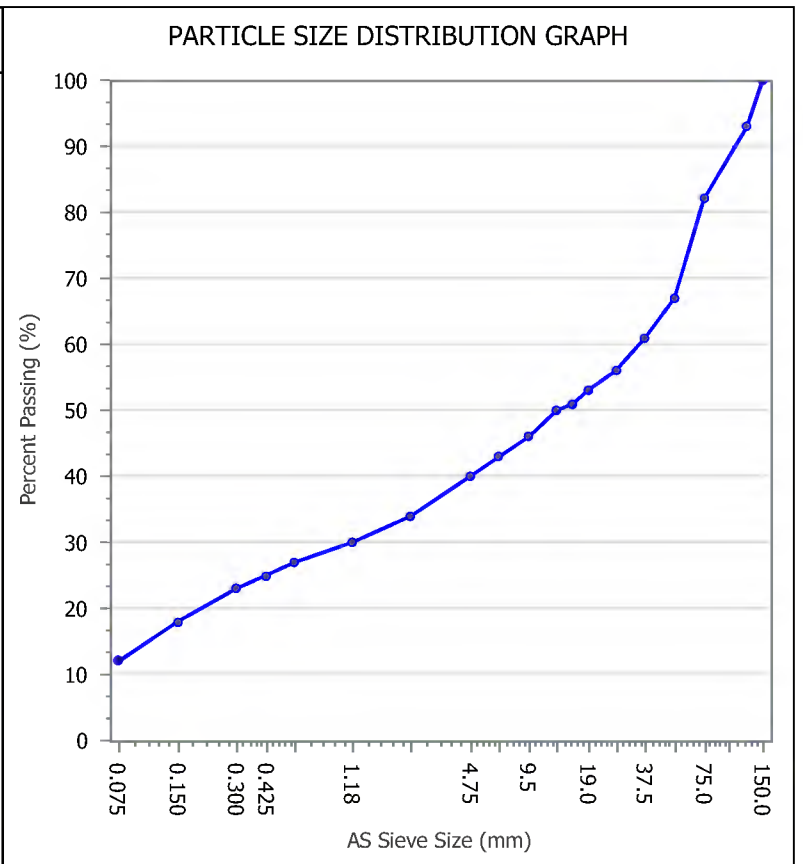
Proposed Rock Fill Methodology

## PARTICLE SIZE DISTRIBUTION REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5242-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Crushed+Fines
Location: Darwin	Internal Test Request: 21791/T/25-2116
Component: Quality Material Testing	Client Reference/s: DA 10/09/2025
Area Description:	Report Date / Page: 12/09/2025 <span style="float: right;">Page 1 of 2</span>


Test Procedures: AS1289.3.6.1	
Sample Number: 21791/S/25-16693	Stockpile: 1 Client Selected
Client Reference: Crushed+Fines	
Sampling Method: AS1141.3.1 Cl 9.3	
Sampled By: Gurjot Singh	
Date Sampled/Tested: 10/09/2025 / 10/09/2025	Material Source: On-Site
Prep / Drying Method: n/a	Material Type: -
Prep > 53mm (%): -	Specification: -

AS Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
150.0		100	
125.0		93	
75.0		82	
53.0		67	
37.5		61	
26.5		56	
19.0		53	
16.0		51	
13.2		50	
9.5		46	
6.7		43	
4.75		40	
2.36		34	
1.18		30	
0.600		27	
0.425		25	
0.300		23	
0.150		18	
0.075		12	



Remarks

Accredited for compliance with ISO/IEC 17025 – Testing



Accreditation Number: 1986  
 Corporate Site Number: 21791

*Gurdeep Singh*

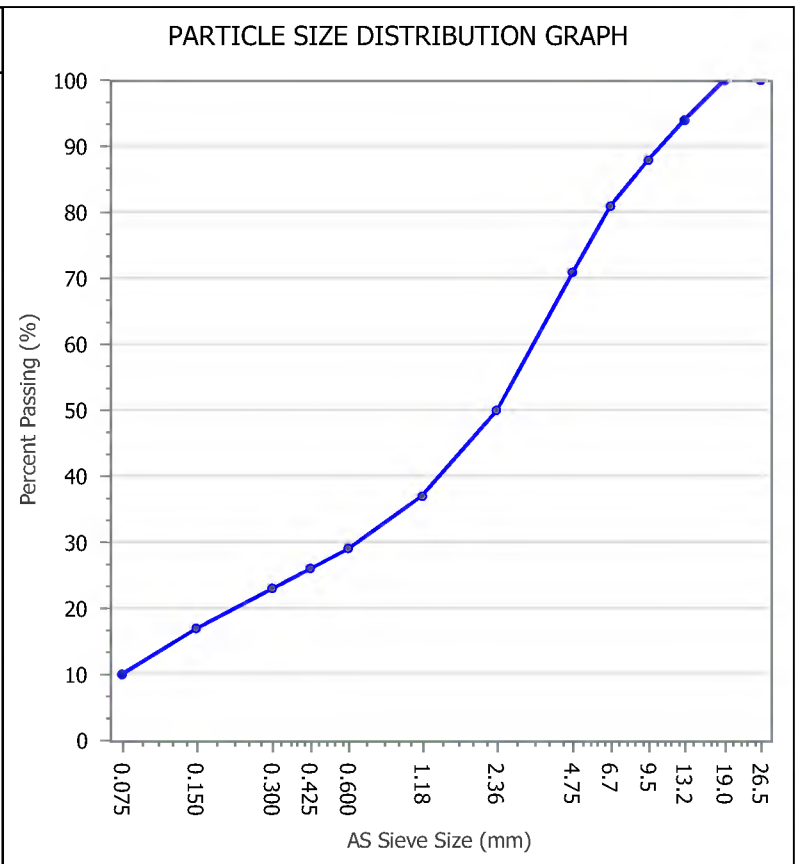
Approved Signatory: Gurdeep Singh  
 Form ID: W9Rep Rev 3

## PARTICLE SIZE DISTRIBUTION REPORT

Client: BMD Urban Pty Ltd Client Address: PO BOX 197, Wynnum Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package Location: Darwin Component: Quality Material Testing Area Description:	Report Number: 21791/R/25-5242-1 Project Number: 21791/P/25-33 Lot Number: Boxed Out Road Material Internal Test Request: 21791/T/25-2116 Client Reference/s: DA 10/09/2025 Report Date / Page: 12/09/2025 <span style="float: right;">Page 2 of 2</span>
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Test Procedures: AS1289.3.6.1, AS1289.1.1 Sample Number: 21791/S/25-16694 Client Reference: Boxed Out Road Material Sampling Method: AS1141.3.1 Cl 8.4.3 Sampled By: Gurjot Singh Date Sampled/Tested: 10/09/2025 / 10/09/2025 Prep / Drying Method: n/a Prep > 53mm (%): -	Stockpile: 1 Client Selected Material Source: On-Site Material Type: - Specification: -
--	--

AS Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
26.5		100	
19.0		100	
13.2		94	
9.5		88	
6.7		81	
4.75		71	
2.36		50	
1.18		37	
0.600		29	
0.425		26	
0.300		23	
0.150		17	
0.075		10	

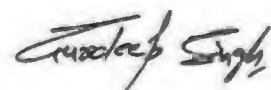


Remarks

Accredited for compliance with ISO/IEC 17025 – Testing



Accreditation Number: 1986  
 Corporate Site Number: 21791

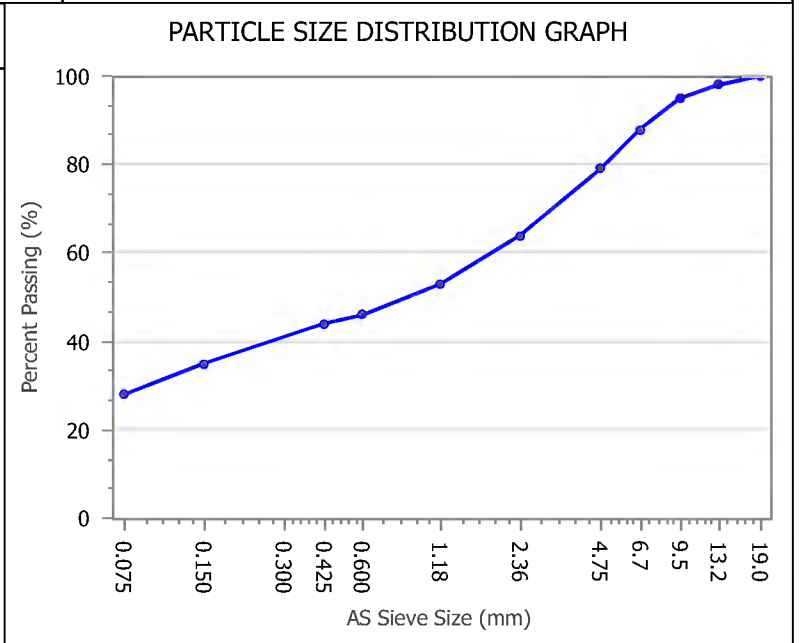
  
 Approved Signatory: Gurdeep Singh  
 Form ID: W9Rep Rev 3

## QUALITY OF MATERIALS REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-7088-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 746-748
Location: Darwin	Internal Test Request: 21791/T/25-2910
Component: Quality Sample	Client Reference/s: DA 23.10.2025
Area Description: Zuccoli	Report Date / Page: 2/12/2025 <span style="float: right;">Page 1 of 1</span>



Test Procedures AS1289.3.6.1, AS1289.1.1, AS1289.3.1.2, AS1289.3.2.1, AS1289.3.4.1, AS1289.2.1.1, AS1289.3.3.1	
Sample Number 21791/S/25-20648	Location ID
Client Reference -	Easting m 18646.392
Sampling Method AS1289.1.2.1 CI 6.4b	Northing m 616579.161
Sampled By Haider Ikram	R.L 24.104
Date Sampled/Tested 23/10/2025 / 25/11/2025	Material Source On-Site
Drying Methods PSD: / ATT:Air Dried	Material Type General Fill
Atterberg Preparation Dry Sieved	Material Description General Fill

AS Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
19.0		100	
13.2		98	
9.5		95	
6.7		88	
4.75		79	
2.36		64	
1.18		53	
0.600		46	
0.425		44	
0.150		35	
0.075		28	



Test Result	Specification Minimum (%)	Result	Specification Maximum (%)	Test Result	Specification Minimum (%)	Result	Specification Maximum (%)
Liquid Limit (%)		33		0.075/0.425 Fines Ratio		0.65	
Plastic Limit (%)		19		PI x 0.425 Ratio (%)		617.4	
Plastic Index (%)		14		LS x 0.425 Ratio (%)		330.8	
Linear Shrinkage (%)		7.5		Particle Size Dist. Moisture Content (%)		9.4	
Shrinkage Observations	Cracking						

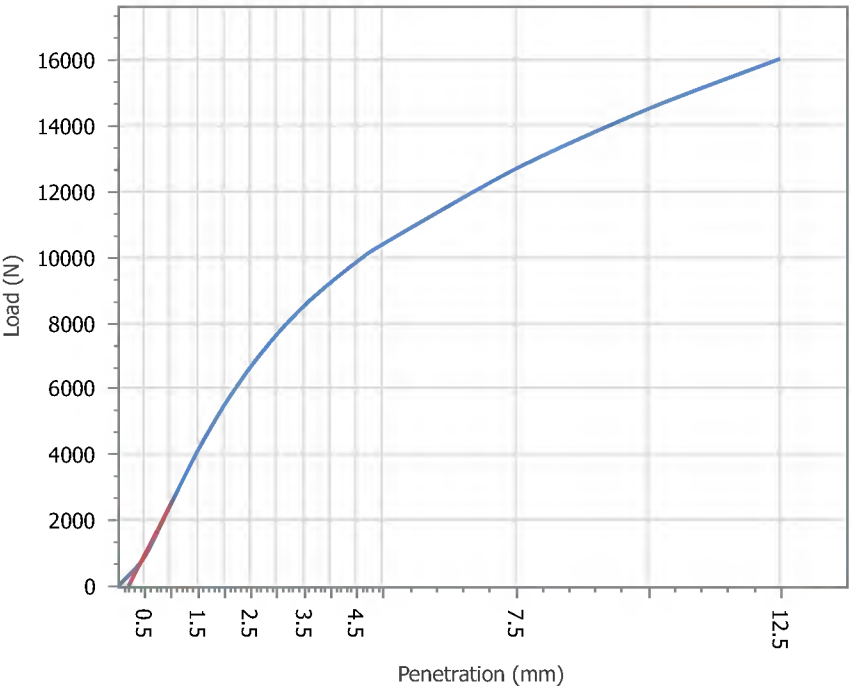
Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Sunil Sukhdeo Form ID: W85MCRP Rev 2</p>
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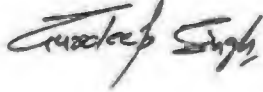
## CALIFORNIA BEARING RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5575-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Boxed Out Road Material
Location: Darwin	Internal Test Request: 21791/T/25-2116
Component: Quality Material Testing	Client Reference/s: DA 10/09/2025
Area Description:	Report Date / Page: 27/09/2025 <span style="float: right;">Page 1 of 1</span>

Test Procedures AS1289.6.1.1, AS1289.1.1, AS1289.5.2.1, AS1289.2.1.1	
Sample Number 21791/S/25-16694	Stockpile 1 Client Selected
Sampling Method AS1141.3.1 Cl 8.4.3	
Date Sampled 10/09/2025	
Sampled By Gurjot Singh	
Date Tested 20/09/2025	Prep Material > 53mm (%) -
Material Source On-Site	Material Limit Start -
Material Type -	Material Limit End -
Client Reference Boxed Out Road Material	Compactive Effort Modified

Material Description -																																											
<table style="width: 100%; border-collapse: collapse;"> <tr><td>Maximum Dry Density (t/m<sup>3</sup>):</td><td style="text-align: right;">2.06</td></tr> <tr><td>Optimum Moisture Content (%):</td><td style="text-align: right;">14.0</td></tr> <tr><td>Field Moisture Content (%):</td><td style="text-align: right;">11.6</td></tr> <tr><td>Sample Percent Oversize (%):</td><td style="text-align: right;">0.0</td></tr> <tr><td>Oversize Included / Excluded</td><td style="text-align: right;">Excluded</td></tr> <tr><td>Target Density Ratio (%):</td><td style="text-align: right;">95</td></tr> <tr><td>Target Moisture Ratio (%):</td><td style="text-align: right;">100</td></tr> <tr><td>Placement Dry Density (t/m<sup>3</sup>):</td><td style="text-align: right;">1.96</td></tr> <tr><td>Placement Dry Density Ratio (%):</td><td style="text-align: right;">95.5</td></tr> <tr><td>Placement Moisture Content (%):</td><td style="text-align: right;">13.6</td></tr> <tr><td>Placement Moisture Ratio (%):</td><td style="text-align: right;">98.0</td></tr> <tr><td>Test Condition / Soaking Period:</td><td style="text-align: right;">Soaked / 4 Days</td></tr> <tr><td>CBR Surcharge (kg)</td><td style="text-align: right;">4.5</td></tr> <tr><td>Dry Density After Soak (t/m<sup>3</sup>):</td><td style="text-align: right;">1.96</td></tr> <tr><td>Total Curing Time (hrs)</td><td style="text-align: right;">97</td></tr> <tr><td>Liquid Limit Method</td><td style="text-align: right;">Estimation</td></tr> <tr><td>Moisture (top 30mm) After Soak (%)</td><td style="text-align: right;">14.1</td></tr> <tr><td>Moisture (remainder) After Soak (%)</td><td style="text-align: right;">14.7</td></tr> <tr><td>CBR Swell (%):</td><td style="text-align: right;">0.0</td></tr> <tr><td>Minimum CBR Specification (%):</td><td style="text-align: right;">15.0</td></tr> <tr><td><b>CBR Value @ 2.5mm (%):</b></td><td style="text-align: right;"><b>50</b></td></tr> </table>	Maximum Dry Density (t/m <sup>3</sup> ):	2.06	Optimum Moisture Content (%):	14.0	Field Moisture Content (%):	11.6	Sample Percent Oversize (%):	0.0	Oversize Included / Excluded	Excluded	Target Density Ratio (%):	95	Target Moisture Ratio (%):	100	Placement Dry Density (t/m <sup>3</sup> ):	1.96	Placement Dry Density Ratio (%):	95.5	Placement Moisture Content (%):	13.6	Placement Moisture Ratio (%):	98.0	Test Condition / Soaking Period:	Soaked / 4 Days	CBR Surcharge (kg)	4.5	Dry Density After Soak (t/m <sup>3</sup> ):	1.96	Total Curing Time (hrs)	97	Liquid Limit Method	Estimation	Moisture (top 30mm) After Soak (%)	14.1	Moisture (remainder) After Soak (%)	14.7	CBR Swell (%):	0.0	Minimum CBR Specification (%):	15.0	<b>CBR Value @ 2.5mm (%):</b>	<b>50</b>	<h3>CBR PENETRATION PLOT</h3> 
Maximum Dry Density (t/m <sup>3</sup> ):	2.06																																										
Optimum Moisture Content (%):	14.0																																										
Field Moisture Content (%):	11.6																																										
Sample Percent Oversize (%):	0.0																																										
Oversize Included / Excluded	Excluded																																										
Target Density Ratio (%):	95																																										
Target Moisture Ratio (%):	100																																										
Placement Dry Density (t/m <sup>3</sup> ):	1.96																																										
Placement Dry Density Ratio (%):	95.5																																										
Placement Moisture Content (%):	13.6																																										
Placement Moisture Ratio (%):	98.0																																										
Test Condition / Soaking Period:	Soaked / 4 Days																																										
CBR Surcharge (kg)	4.5																																										
Dry Density After Soak (t/m <sup>3</sup> ):	1.96																																										
Total Curing Time (hrs)	97																																										
Liquid Limit Method	Estimation																																										
Moisture (top 30mm) After Soak (%)	14.1																																										
Moisture (remainder) After Soak (%)	14.7																																										
CBR Swell (%):	0.0																																										
Minimum CBR Specification (%):	15.0																																										
<b>CBR Value @ 2.5mm (%):</b>	<b>50</b>																																										

Remarks

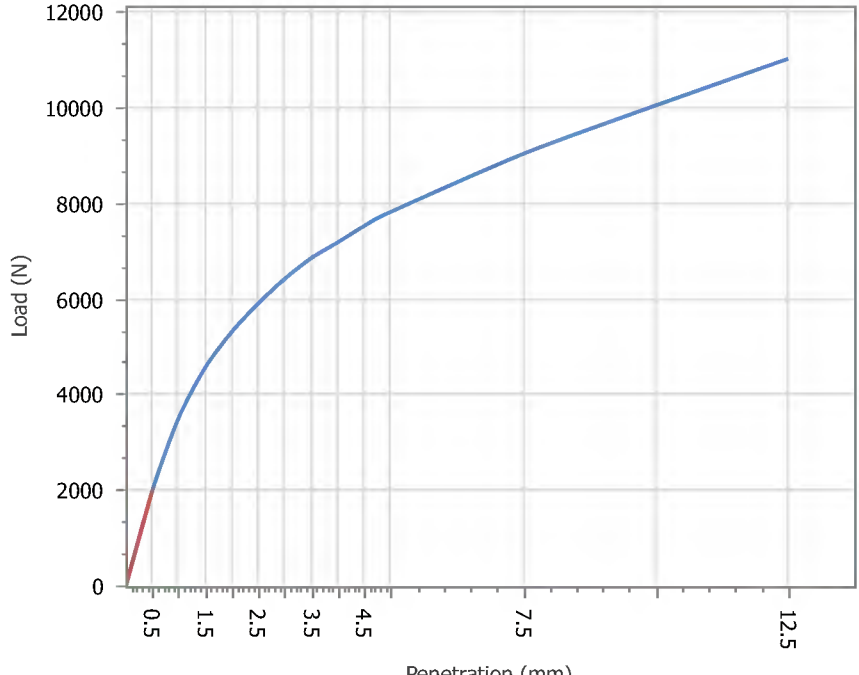
	<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>	
	<p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	<p>Approved Signatory: Gurdeep Singh Form ID: W2ASRep Rev 3</p>

## CALIFORNIA BEARING RATIO REPORT


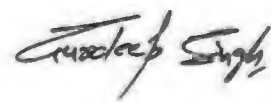
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-7223-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 746-748
Location: Darwin	Internal Test Request: 21791/T/25-2910
Component: Quality Sample	Client Reference/s: DA 23.10.2025
Area Description: Zuccoli	Report Date / Page: 9/12/2025 <span style="float: right;">Page 1 of 1</span>

Test Procedures AS1289.6.1.1, AS1289.1.1, AS1289.5.2.1, AS1289.2.1.1	
Sample Number 21791/S/25-20648	Location ID
Sampling Method AS1289.1.2.1 CI 6.4b	Easting m 18646.392
Date Sampled 23/10/2025	Northing m 616579.161
Sampled By Haider Ikram	R.L 24.104
Date Tested 8/12/2025	Prep Material > 53mm (%) -
Material Source On-Site	Material Limit Start -
Material Type General Fill	Material Limit End -
Client Reference -	Compactive Effort Modified

Material Description General Fill

<p>Maximum Dry Density (t/m<sup>3</sup>): 2.09</p> <p>Optimum Moisture Content (%): 11.5</p> <p>Field Moisture Content (%): 9.4</p> <p>Sample Percent Oversize (%): 0.0</p> <p>Oversize Included / Excluded Excluded</p> <p>Target Density Ratio (%): 95</p> <p>Target Moisture Ratio (%): 100</p> <p>Placement Dry Density (t/m<sup>3</sup>): 1.99</p> <p>Placement Dry Density Ratio (%): 95.0</p> <p>Placement Moisture Content (%): 11.9</p> <p>Placement Moisture Ratio (%): 101.5</p> <p>Test Condition / Soaking Period: Soaked / 4 Days</p> <p>CBR Surcharge (kg) 4.5</p> <p>Dry Density After Soak (t/m<sup>3</sup>): 1.98</p> <p>Total Curing Time (hrs) 26</p> <p>Liquid Limit Method Estimation</p> <p>Moisture (top 30mm) After Soak (%) 14.0</p> <p>Moisture (remainder) After Soak (%) 13.6</p> <p>CBR Swell (%): 0.0</p> <p>Minimum CBR Specification (%): -</p> <p><b>CBR Value @ 2.5mm (%): 45</b></p>	<h3>CBR PENETRATION PLOT</h3> 
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Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986</p> <p>Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W2ASRep Rev 3</p>
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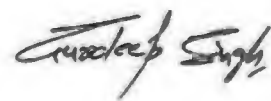
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5672-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 688-692 & 693-695
Location: Darwin	Internal Test Request: 21791/T/25-2156
Component: Field Density Testing	Client Reference/s: DA 11.09.2025
Area Description: Zuccoli	Report Date / Page: 1/10/2025 <span style="float: right;">Page 1 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
------------------	--

Sample Number	21791/S/25-16845	21791/S/25-16846	21791/S/25-16847	21791/S/25-16848
ID / Client ID	Layer 2	Layer 2	Layer 1	Layer 3
Lot Number	Lot 688-692 & 693-695	Lot 688-692 & 693-695	Lot 688-692 & 693-695	Lot 688-692 & 693-695
Date / Time Tested	11/09/2025 08:50	11/09/2025 09:00	11/09/2025 09:20	11/09/2025 09:30
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	Lot 693-695	Lot 693-695	Lot 693-695	Lot 688-692
Easting m	18667.88	18642.39	18638.36	18612.948
Northing m	616256.00	616245.19	616243.98	616248.368
R.L	20.15	20.40	20.02	20.310
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-16845	21791/S/25-16846	21791/S/25-16847	21791/S/25-16848
MDR Sample Date / Update	11/09/2025	11/09/2025	11/09/2025	11/09/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	8.2	11.4	11.6	12.2
Optimum Moisture Content (%)	10.0	11.5	11.0	11.5
Variation from OMC (%)	2.0% Drier than OMC	0.0% Drier than OMC	0.5% Wetter than OMC	1.0% Wetter than OMC
<b>Moisture Ratio (%)</b>	<b>82.0</b>	<b>98.0</b>	<b>106.0</b>	<b>107.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.22	2.37	2.41	2.37
Field Dry Density (t/m <sup>3</sup> )	2.05	2.13	2.16	2.11
Maximum Dry Density (t/m <sup>3</sup> )	2.12	2.17	2.16	2.18
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>96.5</b>	<b>98.0</b>	<b>99.5</b>	<b>97.0</b>

Remarks
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	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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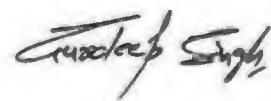
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5672-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 688-692 & 693-695
Location: Darwin	Internal Test Request: 21791/T/25-2156
Component: Field Density Testing	Client Reference/s: DA 11.09.2025
Area Description: Zuccoli	Report Date / Page: 1/10/2025 <span style="float: right;">Page 2 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-16849	21791/S/25-16850	
ID / Client ID	Layer 3	Layer 2	
Lot Number	Lot 688-692 & 693-695	Lot 688-692 & 693-695	
Date / Time Tested	11/09/2025 09:40	11/09/2025 09:50	
Material Source	On-Site	On-Site	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	100 / 125 / 125	
Standard or Modified	Modified	Modified	
Stabilised Material Curing Time	-	-	
Location ID	Lot 688-692	Lot 688-692	
Easting m	18600.089	18588.375	
Northing m	616250.006	616267.387	
R.L	20.197	20.056	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	
MDR Sample Number	21791/S/25-16849	21791/S/25-16850	
MDR Sample Date / Update	11/09/2025	11/09/2025	
Assigned MDR (Yes / No)	No	No	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	11.9	14.3	
Optimum Moisture Content (%)	12.5	13.0	
Variation from OMC (%)	0.5% Drier than OMC	1.5% Wetter than OMC	
<b>Moisture Ratio (%)</b>	<b>96.0</b>	<b>111.0</b>	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.34	2.38	
Field Dry Density (t/m <sup>3</sup> )	2.09	2.08	
Maximum Dry Density (t/m <sup>3</sup> )	2.13	2.14	
Dry Density Ratio Required (%)	95	95	
<b>Dry Density Ratio (%)</b>	<b>98.0</b>	<b>97.0</b>	

Remarks
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	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

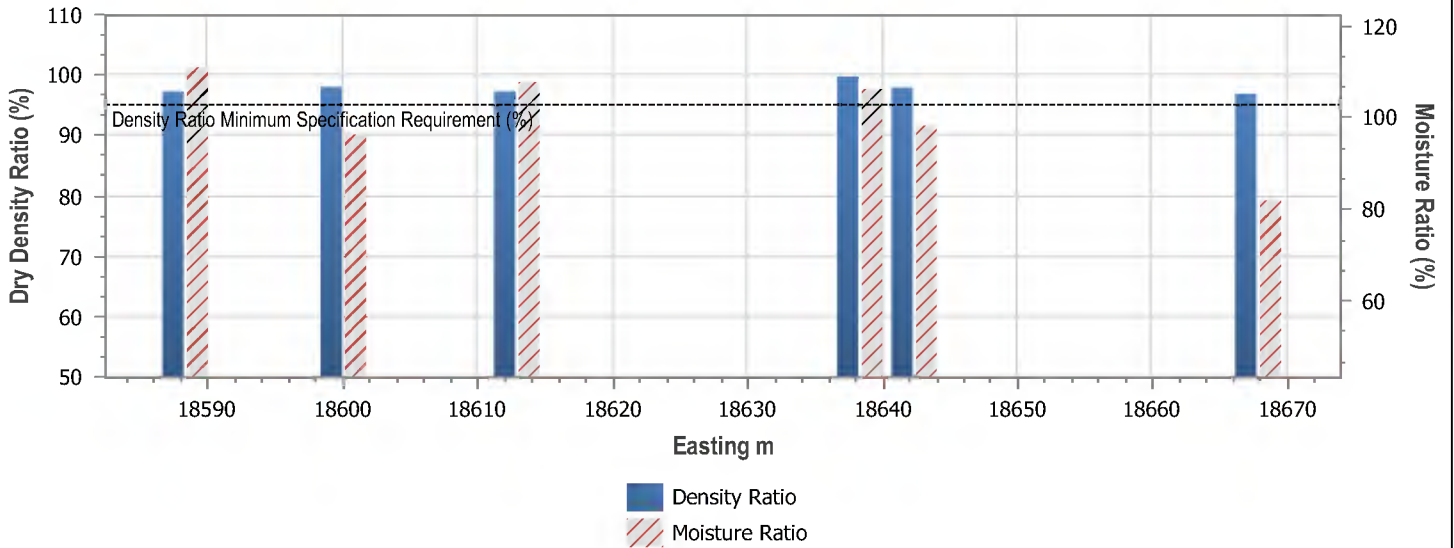
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5672-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 688-692 & 693-695
Location: Darwin	Internal Test Request: 21791/T/25-2156
Component: Field Density Testing	Client Reference/s: DA 11.09.2025
Area Description: Zuccoli	Report Date / Page: 1/10/2025 <span style="float: right;">Page 3 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


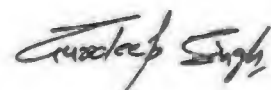
### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	81.8	110.9	100.2	10.633
Dry Density Ratio (%)	96.7	99.6	97.8	1.017

<b>Lot Number:</b>	<b>Lot 688-692 &amp; 693-695</b>
<b>Mean Moisture Ratio (%):</b>	<b>100.2</b>
<b>Mean Density Ratio (%):</b>	<b>97.8</b>

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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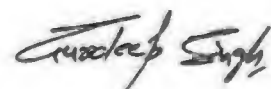
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5801-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 668 to 696
Location: Darwin	Internal Test Request: 21791/T/25-2192
Component: Field Density Testing	Client Reference/s: DA 18-9-25
Area Description: Zuccoli	Report Date / Page: 7/10/2025 <span style="float: right;">Page 1 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-17007	21791/S/25-17008	21791/S/25-17009	21791/S/25-17010
ID / Client ID	DA 18-9-25	DA 18-9-25	DA 18-9-25	DA 18-9-25
Lot Number	Lot 668 to 696	Lot 668 to 696	Lot 668 to 696	Lot 668 to 696
Date / Time Tested	18/09/2025 10:50	18/09/2025 11:00	18/09/2025 11:10	18/09/2025 11:20
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID				
Easting m	18569.41	18600.54	18617.53	18646.93
Northing m	616259.91	616270.75	616251.25	616260.91
R.L	FSL	FSL	FSL	FSL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-17007	21791/S/25-17008	21791/S/25-17009	21791/S/25-17010
MDR Sample Date / Update	18/09/2025	18/09/2025	18/09/2025	18/09/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	6.9	6.5	7.9	6.1
Optimum Moisture Content (%)	9.0	8.5	9.0	8.5
Variation from OMC (%)	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2.5% Drier than OMC
<b>Moisture Ratio (%)</b>	<b>77.5</b>	<b>74.5</b>	<b>85.5</b>	<b>72.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.30	2.23	2.30	2.27
Field Dry Density (t/m <sup>3</sup> )	2.15	2.09	2.13	2.14
Maximum Dry Density (t/m <sup>3</sup> )	2.18	2.19	2.16	2.19
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>98.5</b>	<b>95.5</b>	<b>98.5</b>	<b>97.5</b>

Remarks
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	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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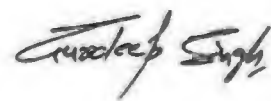
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5801-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 668 to 696
Location: Darwin	Internal Test Request: 21791/T/25-2192
Component: Field Density Testing	Client Reference/s: DA 18-9-25
Area Description: Zuccoli	Report Date / Page: 7/10/2025 <span style="float: right;">Page 2 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-17011		
ID / Client ID	DA 18-9-25		
Lot Number	Lot 668 to 696		
Date / Time Tested	18/09/2025 11:30		
Material Source	On-Site		
Material Type	General Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	175 / 200 / 200		
Standard or Modified	Modified		
Stabilised Material Curing Time	-		
Location ID			
Easting	m 18688.92		
Northing	m 616237.19		
R.L	FSL		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize Wet / Dry (%)	0 / 0		
MDR Sample Number	21791/S/25-17011		
MDR Sample Date / Update	18/09/2025		
Assigned MDR (Yes / No)	No		
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	7.2		
Optimum Moisture Content (%)	9.5		
Variation from OMC (%)	2.0% Drier than OMC		
<b>Moisture Ratio (%)</b>	<b>76.5</b>		
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.28		
Field Dry Density (t/m <sup>3</sup> )	2.13		
Maximum Dry Density (t/m <sup>3</sup> )	2.15		
Dry Density Ratio Required (%)	95		
<b>Dry Density Ratio (%)</b>	<b>99.0</b>		

Remarks
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	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

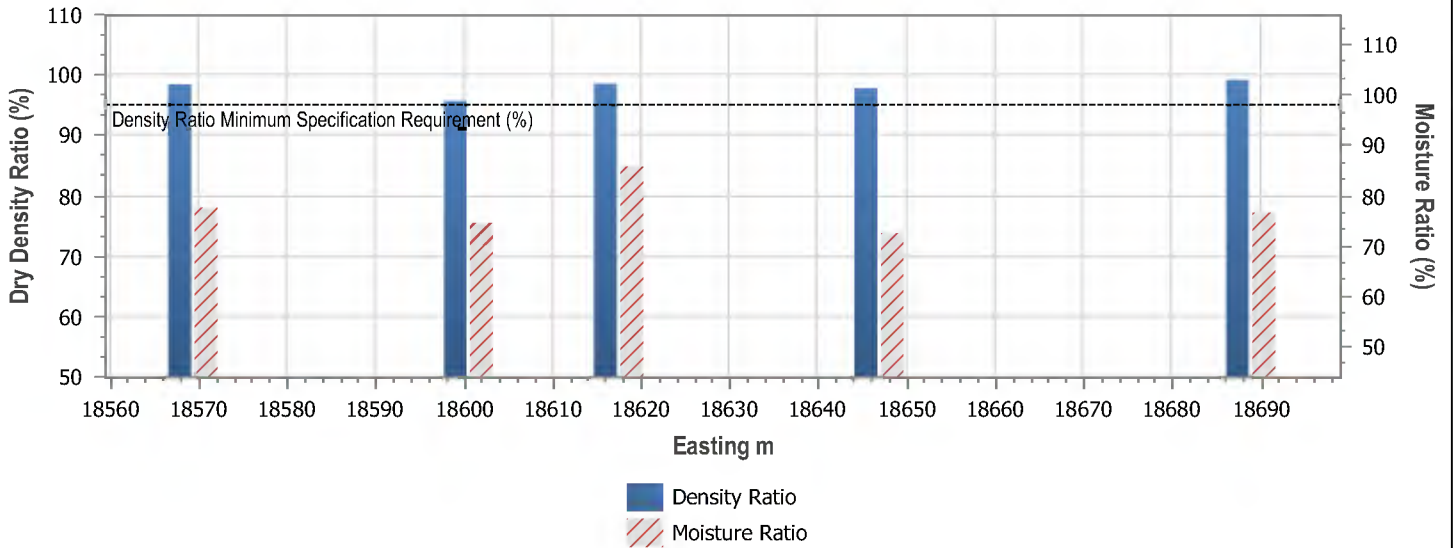
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5801-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 668 to 696
Location: Darwin	Internal Test Request: 21791/T/25-2192
Component: Field Density Testing	Client Reference/s: DA 18-9-25
Area Description: Zuccoli	Report Date / Page: 7/10/2025 <span style="float: right;">Page 3 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


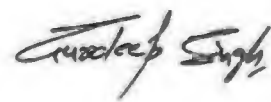
### LOT TEST RESULT SUMMARY



Tests in Lot = 5	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	72.5	85.7	77.4	5.035
Dry Density Ratio (%)	95.7	99.1	97.9	1.335

<b>Lot Number:</b>	<b>Lot 668 to 696</b>
<b>Mean Moisture Ratio (%):</b>	<b>77.4</b>
<b>Mean Density Ratio (%):</b>	<b>97.9</b>

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## DRY DENSITY RATIO / MOISTURE RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6077-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 706 to 712
Location: Darwin	Internal Test Request: 21791/T/25-2236
Component: Field Density	Client Reference/s: DA 23.09.2025
Area Description: Zuccoli	Report Date / Page: 16/10/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-17394	21791/S/25-17395	21791/S/25-17396	21791/S/25-17397
ID / Client ID	FSL	FSL	FSL	Layer 1
Lot Number	Lot 706 to 712	Lot 706 to 712	Lot 706 to 712	Lot 706 to 712
Date / Time Tested	23/09/2025 09:30	23/09/2025 09:40	23/09/2025 09:50	23/09/2025 10:00
Material Source	Client	Client	Client	Client
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID				
Easting m	18641.059	18610.551	18579.579	18578.592
Northing m	616297.623	616313.105	616310.238	616323.125
R.L	20.855	20.917	20.625	20.619
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	3 / 3	4 / 4	2 / 2	0 / 0
MDR Sample Number	21791/S/25-17394	21791/S/25-17395	21791/S/25-17396	21791/S/25-17397
MDR Sample Date / Update	23/09/2025	23/09/2025	23/09/2025	23/09/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	7.8	8.7	6.5	9.3
Optimum Moisture Content (%)	9.5	9.5	9.5	10.5
Variation from OMC (%)	2.0% Drier than OMC	0.5% Drier than OMC	3.0% Drier than OMC	1.0% Drier than OMC
<b>Moisture Ratio (%)</b>	<b>80.5</b>	<b>92.5</b>	<b>69.5</b>	<b>89.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.36	2.34	2.33	2.29
Field Dry Density (t/m <sup>3</sup> )	2.19	2.15	2.19	2.10
Maximum Dry Density (t/m <sup>3</sup> )	2.22	2.17	2.16	2.19
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>98.5</b>	<b>99.0</b>	<b>101.5</b>	<b>96.0</b>

Remarks
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 <p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Sunil Sukhdeo Form ID: W27ASRep Rev 1</p>
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## DRY DENSITY RATIO / MOISTURE RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6077-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 706 to 712
Location: Darwin	Internal Test Request: 21791/T/25-2236
Component: Field Density	Client Reference/s: DA 23.09.2025
Area Description: Zuccoli	Report Date / Page: 16/10/2025 <span style="float: right;">Page 2 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-17398	21791/S/25-17399	
ID / Client ID	Layer 1	Layer 1	
Lot Number	Lot 706 to 712	Lot 706 to 712	
Date / Time Tested	23/09/2025 10:10	23/09/2025 10:20	
Material Source	Client	Client	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Modified	Modified	
Stabilised Material Curing Time	-	-	
Location ID			
Easting m	18598.300	18628.656	
Northing m	616309.861	616302.191	
R.L	20.580	20.693	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	
MDR Sample Number	21791/S/25-17398	21791/S/25-17399	
MDR Sample Date / Update	23/09/2025	23/09/2025	
Assigned MDR (Yes / No)	No	No	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	10.0	12.7	
Optimum Moisture Content (%)	10.0	11.5	
Variation from OMC (%)	Field Moisture at OMC	1.5% Wetter than OMC	
<b>Moisture Ratio (%)</b>	<b>100.0</b>	<b>112.5</b>	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.43	2.29	
Field Dry Density (t/m <sup>3</sup> )	2.21	2.03	
Maximum Dry Density (t/m <sup>3</sup> )	2.23	2.10	
Dry Density Ratio Required (%)	95	95	
<b>Dry Density Ratio (%)</b>	<b>99.0</b>	<b>96.5</b>	

Remarks
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	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Sunil Sukhdeo Form ID: W27ASRep Rev 1</p>
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## FIELD DENSITY REPORT (NUCLEAR DENSOMETER)

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6078-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 706 to 712
Location: Darwin	Internal Test Request: 21791/T/25-2236
Component: Field Density	Client Reference/s: DA 23.09.2025
Area Description: Zuccoli	Report Date / Page: 16/10/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.8.1, AS1289.1.1, AS1289.2.1.1
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Sample Number	21791/S/25-17394	21791/S/25-17395	21791/S/25-17396	21791/S/25-17397
ID / Client ID	FSL	FSL	FSL	Layer 1
Lot Number	Lot 706 to 712	Lot 706 to 712	Lot 706 to 712	Lot 706 to 712
Date / Time Tested	23/09/2025	23/09/2025	23/09/2025	23/09/2025
Material Source	Client	Client	Client	Client
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Test / Layer Depth (mm)	175 / 200	175 / 200	175 / 200	175 / 200
Location ID				
Easting m	18641.059	18610.551	18579.579	18578.592
Northing m	616297.623	616313.105	616310.238	616323.125
R.L	20.855	20.917	20.625	20.619
<i>Nuc Bias / Calibration Details:</i>				
Calibration Number	-	-	-	-
Date of Calibration Update	-	-	-	-
Depth Calibrated (mm)	-	-	-	-
Moisture Correction Method	-	-	-	-
<i>Test Results:</i>				
Field Wet Density (t/m <sup>3</sup> )	2.36	2.34	2.33	2.29
Field Moisture Content (%)	7.9	8.8	6.6	9.3
<b>Field Dry Density (t/m<sup>3</sup>)</b>	<b>2.19</b>	<b>2.15</b>	<b>2.19</b>	<b>2.10</b>

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Sunil Sukhdeo Form ID: W7ASRep Rev 1</p>
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## FIELD DENSITY REPORT (NUCLEAR DENSOMETER)

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6078-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 706 to 712
Location: Darwin	Internal Test Request: 21791/T/25-2236
Component: Field Density	Client Reference/s: DA 23.09.2025
Area Description: Zuccoli	Report Date / Page: 16/10/2025 <span style="float: right;">Page 2 of 2</span>

Test Procedures:	AS1289.5.8.1, AS1289.1.1, AS1289.2.1.1
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Sample Number	21791/S/25-17398	21791/S/25-17399	21791/S/25-17400	
ID / Client ID	Layer 1	Layer 1	FSL	
Lot Number	Lot 706 to 712	Lot 706 to 712	Lot 706 to 712	
Date / Time Tested	23/09/2025	23/09/2025	23/09/2025	
Material Source	Client	Client	Client	
Material Type	General Fill	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Test / Layer Depth (mm)	175 / 200	175 / 200	125 / 150	
Location ID				
Easting	m 18598.300	18628.656	18662.939	
Northing	m 616309.861	616302.191	616294.376	
R.L	20.580	20.693	20.731	
<i>Nuc Bias / Calibration Details:</i>				
Calibration Number	-	-	-	-
Date of Calibration Update	-	-	-	-
Depth Calibrated (mm)	-	-	-	-
Moisture Correction Method	-	-	-	-
<i>Test Results:</i>				
Field Wet Density (t/m <sup>3</sup> )	2.43	2.29	2.31	
Field Moisture Content (%)	10.0	12.7	-	
<b>Field Dry Density (t/m<sup>3</sup>)</b>	<b>2.21</b>	<b>2.03</b>	-	

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Sunil Sukhdeo Form ID: W7ASRep Rev 1</p>
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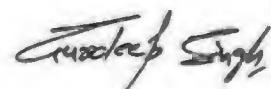
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6158-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot# 778-780, 796-799
Location: Darwin	Internal Test Request: 21791/T/25-2510
Component: Field Density testing	Client Reference/s: DA 8.10.2025
Area Description: Zuccoli	Report Date / Page: 18/10/2025 <span style="float: right;">Page 1 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-18819	21791/S/25-18820	21791/S/25-18821	21791/S/25-18822
ID / Client ID	Layer 2	Layer 1	Layer 2	Layer 1
Lot Number	Lot# 778-780, 796-799	Lot# 778-780, 796-799	Lot# 778-780, 796-799	Lot# 778-780, 796-799
Date / Time Tested	8/10/2025 14:40	8/10/2025 14:50	8/10/2025 15:05	8/10/2025 15:15
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	Lot# 796-799	Lot# 796-799	Lot# 796-799	Lot# 796-799
Easting m	18685.965	18685.030	18681.338	18686.751
Northing m	616024.393	616023.492	616041.853	616050.227
R.L	17.383	17.186	17.627	17.594
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-18819	21791/S/25-18820	21791/S/25-18821	21791/S/25-18822
MDR Sample Date / Update	8/10/2025	8/10/2025	8/10/2025	8/10/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.5	11.7	11.6	7.7
Optimum Moisture Content (%)	13.0	13.5	13.5	9.0
Variation from OMC (%)	1.5% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC	1.0% Drier than OMC
<b>Moisture Ratio (%)</b>	<b>87.0</b>	<b>87.0</b>	<b>84.5</b>	<b>86.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.25	2.22	2.25	2.24
Field Dry Density (t/m <sup>3</sup> )	2.02	1.99	2.02	2.08
Maximum Dry Density (t/m <sup>3</sup> )	2.06	2.03	2.05	2.09
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>98.0</b>	<b>98.5</b>	<b>98.0</b>	<b>99.0</b>

Remarks
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 <p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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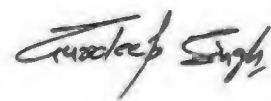
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6158-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot# 778-780, 796-799
Location: Darwin	Internal Test Request: 21791/T/25-2510
Component: Field Density testing	Client Reference/s: DA 8.10.2025
Area Description: Zuccoli	Report Date / Page: 18/10/2025 <span style="float: right;">Page 2 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-18823	21791/S/25-18824	
ID / Client ID	FSL	FSL	
Lot Number	Lot# 778-780, 796-799	Lot# 778-780, 796-799	
Date / Time Tested	8/10/2025 15:25	8/10/2025 15:35	
Material Source	On-Site	On-Site	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Modified	Modified	
Stabilised Material Curing Time	-	-	
Location ID	Lot# 778-780	Lot# 778-780	
Easting m	18644.551	18620.543	
Northing m	616213.718	616221.319	
R.L	19.138	19.230	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	
MDR Sample Number	21791/S/25-18823	21791/S/25-18824	
MDR Sample Date / Update	8/10/2025	8/10/2025	
Assigned MDR (Yes / No)	No	No	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	7.9	11.4	
Optimum Moisture Content (%)	9.0	12.0	
Variation from OMC (%)	1.0% Drier than OMC	1.0% Drier than OMC	
<b>Moisture Ratio (%)</b>	<b>87.0</b>	<b>93.5</b>	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.27	2.25	
Field Dry Density (t/m <sup>3</sup> )	2.10	2.02	
Maximum Dry Density (t/m <sup>3</sup> )	2.19	2.10	
Dry Density Ratio Required (%)	95	95	
<b>Dry Density Ratio (%)</b>	<b>96.0</b>	<b>96.5</b>	

Remarks
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 <p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

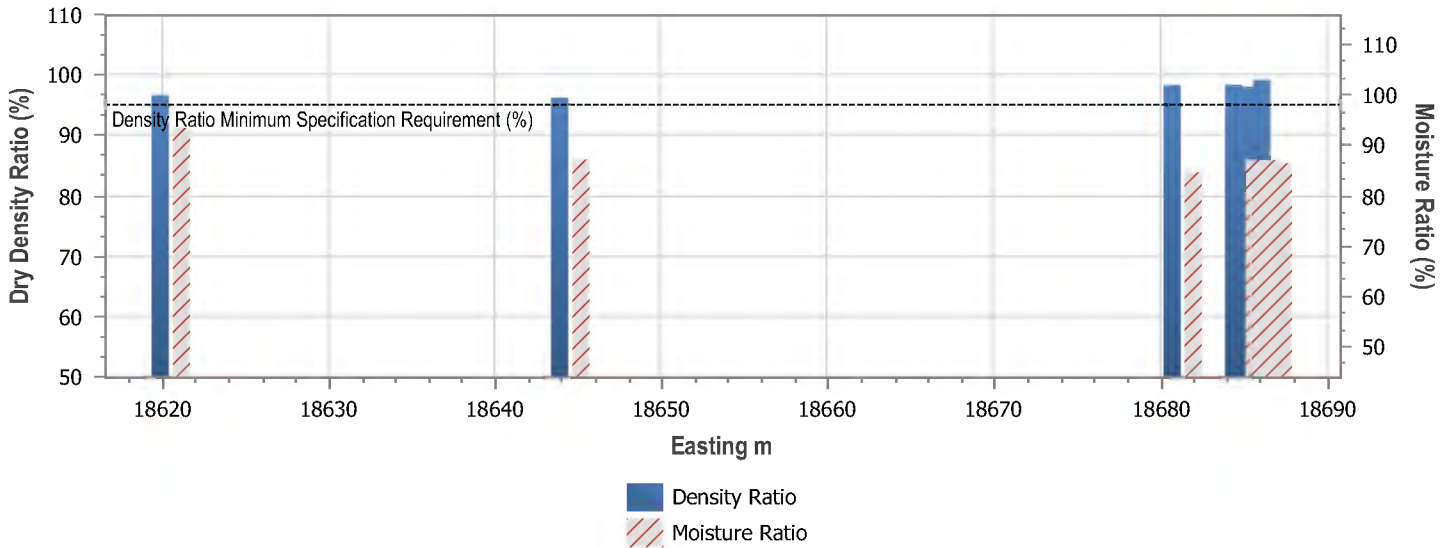
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6158-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot# 778-780, 796-799
Location: Darwin	Internal Test Request: 21791/T/25-2510
Component: Field Density testing	Client Reference/s: DA 8.10.2025
Area Description: Zuccoli	Report Date / Page: 18/10/2025 <span style="float: right;">Page 3 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		

### LOT TEST RESULT SUMMARY




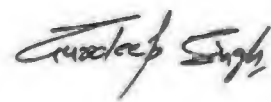
Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	84.6	93.4	87.6	2.999
Dry Density Ratio (%)	96.2	99.2	97.7	1.120

**Lot Number:** Lot# 778-780, 796-799

**Mean Moisture Ratio (%):** 87.6

**Mean Density Ratio (%):** 97.7

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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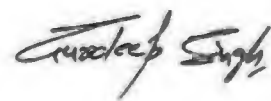
## ATTERBERG LIMITS REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6160-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Crushed+Fines
Location: Darwin	Internal Test Request: 21791/T/25-2116
Component: Quality Material Testing	Client Reference/s: DA 10/09/2025
Area Description:	Report Date / Page: 18/10/2025 <span style="float: right;">Page 1 of 1</span>

Test Procedures: AS1289.3.1.2, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1, AS1289.2.1.1	
Sample Number: 21791/S/25-16693	Sample Location
Sampling Method: AS1141.3.1 Cl 9.3	Stockpile 1      Client Selected
Date Sampled: 10/09/2025	
Sampled By: Gurjot Singh	
Date Tested: 15/10/2025	
Drying / Prep Method: Air Dried / Dry Sieved	Material Source: On-Site
LL Water Type: Potable	Material Type: -
LL Device Type: Cassagrande	Specification: -
Client Reference: Crushed+Fines	Prep Mat > 53mm (%): -
Material Description: Silty Sandy Gravel	

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		<b>22</b>	
Plastic Limit (%)		<b>15</b>	
Plasticity Index (%)		<b>7</b>	
Linear Shrinkage (%)		<b>4.5</b>	
Linear Shrinkage Mould Length / Defects:	Mould Length: 249.5mm / N/A		

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W11bRep Rev 2</p>
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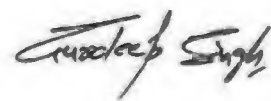
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6211-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: AZTEC Roundabout
Location: Darwin	Internal Test Request: 21791/T/25-2451
Component: Field Density	Client Reference/s: DA 6.10.2025
Area Description: Zuccoli Village	Report Date / Page: 21/10/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-18584	21791/S/25-18585	21791/S/25-18586	21791/S/25-18587
ID / Client ID	DA 6.10.25	DA 6.10.25	DA 6.10.25	DA 6.10.25
Lot Number	AZTEC Roundabout	AZTEC Roundabout	AZTEC Roundabout	AZTEC Roundabout
Date / Time Tested	6/10/2025 10:45	6/10/2025 11:00	6/10/2025 11:10	6/10/2025 11:45
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	Layer 4	Layer 3	Layer 5	FSL
Easting m	18635.873	18636.487	18638.025	18638.727
Northing m	616105.283	616104.220	616105.685	616105.417
R.L	17.310	17.087	17.466	17.689
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-18584	21791/S/25-18585	21791/S/25-18586	21791/S/25-18587
MDR Sample Date / Update	6/10/2025	6/10/2025	6/10/2025	6/10/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	7.7	10.5	7.4	7.5
Optimum Moisture Content (%)	9.0	8.5	8.5	8.5
Variation from OMC (%)	1.0% Drier than OMC	2.0% Wetter than OMC	1.0% Drier than OMC	1.0% Drier than OMC
<b>Moisture Ratio (%)</b>	<b>87.0</b>	<b>122.0</b>	<b>86.5</b>	<b>87.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.40	2.35	2.37	2.44
Field Dry Density (t/m <sup>3</sup> )	2.23	2.13	2.20	2.27
Maximum Dry Density (t/m <sup>3</sup> )	2.24	2.18	2.23	2.26
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>99.5</b>	<b>97.5</b>	<b>98.5</b>	<b>100.0</b>

Remarks
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 <p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

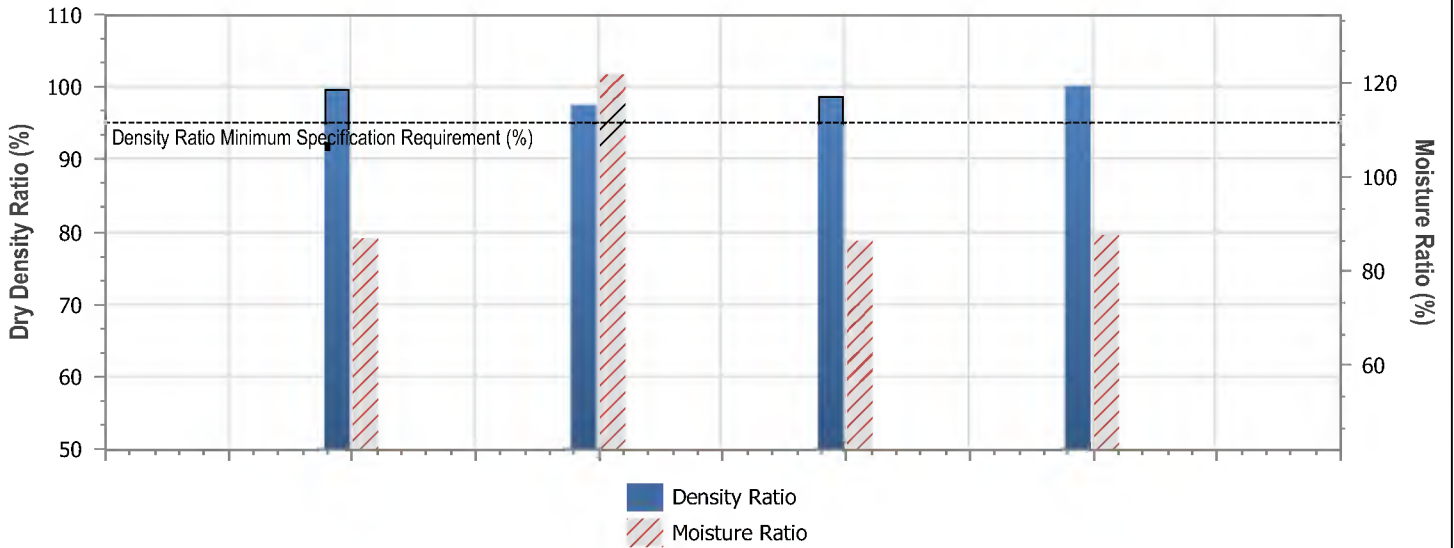
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6211-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: AZTEC Roundabout
Location: Darwin	Internal Test Request: 21791/T/25-2451
Component: Field Density	Client Reference/s: DA 6.10.2025
Area Description: Zuccoli Village	Report Date / Page: 21/10/2025 <span style="float: right;">Page 2 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


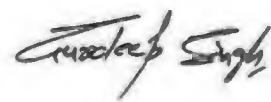
### LOT TEST RESULT SUMMARY



Tests in Lot = 4	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	86.5	121.8	95.7	17.389
Dry Density Ratio (%)	97.4	100.1	99.0	1.183

<b>Lot Number:</b>	<b>AZTEC Roundabout</b>
<b>Mean Moisture Ratio (%):</b>	<b>95.7</b>
<b>Mean Density Ratio (%):</b>	<b>99.0</b>

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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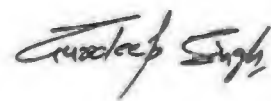
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6227-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 735-742
Location: Darwin	Internal Test Request: 21791/T/25-2489
Component: Field Density	Client Reference/s: DA 10/10/25
Area Description: Zuccoli Village	Report Date / Page: 22/10/2025 <span style="float: right;">Page 1 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-18692	21791/S/25-18693	21791/S/25-18694	21791/S/25-18695
ID / Client ID	DA 10/10/25	DA 10/10/25	DA 10/10/25	DA 10/10/25
Lot Number	Lot 735-742	Lot 735-742	Lot 735-742	Lot 735-742
Date / Time Tested	10/10/2025 11:10	10/10/2025 11:20	10/10/2025 11:30	10/10/2025 11:40
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	75 / 100 / 100
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	Lot 735-738	Lot 735-738	Lot 735-738	Lot 739-742 Correction Layer
Easting m	18591.76	18598.27	18600.37	18603.22
Northing m	616413.48	616442.95	616429.83	616490.11
R.L	22.085	22.74	23.04	23.39
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-18692	21791/S/25-18693	21791/S/25-18694	21791/S/25-18695
MDR Sample Date / Update	10/10/2025	10/10/2025	10/10/2025	10/10/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	7.7	11.7	9.1	12.9
Optimum Moisture Content (%)	11.5	11.5	11.0	12.0
Variation from OMC (%)	4.0% Drier than OMC	Field Moisture at OMC	2.0% Drier than OMC	1.0% Wetter than OMC
<b>Moisture Ratio (%)</b>	<b>67.0</b>	<b>100.0</b>	<b>82.0</b>	<b>107.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.31	2.30	2.33	2.26
Field Dry Density (t/m <sup>3</sup> )	2.14	2.06	2.13	2.00
Maximum Dry Density (t/m <sup>3</sup> )	2.12	2.10	2.14	2.08
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>101.0</b>	<b>98.0</b>	<b>99.5</b>	<b>96.0</b>

Remarks
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	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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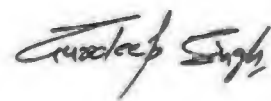
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6227-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 735-742
Location: Darwin	Internal Test Request: 21791/T/25-2489
Component: Field Density	Client Reference/s: DA 10/10/25
Area Description: Zuccoli Village	Report Date / Page: 22/10/2025 <span style="float: right;">Page 2 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-18696		
ID / Client ID	DA 10/10/25		
Lot Number	Lot 735-742		
Date / Time Tested	10/10/2025 11:50		
Material Source	On-Site		
Material Type	General Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	75 / 100 / 100		
Standard or Modified	Modified		
Stabilised Material Curing Time	-		
Location ID	Lot 739-742 Correction Layer		
Easting	m 18613.42		
Northing	m 616512.25		
R.L	23.53		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize Wet / Dry (%)	0 / 0		
MDR Sample Number	21791/S/25-18696		
MDR Sample Date / Update	10/10/2025		
Assigned MDR (Yes / No)	No		
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	12.7		
Optimum Moisture Content (%)	12.0		
Variation from OMC (%)	0.5% Wetter than OMC		
<b>Moisture Ratio (%)</b>	<b>104.5</b>		
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.25		
Field Dry Density (t/m <sup>3</sup> )	2.00		
Maximum Dry Density (t/m <sup>3</sup> )	2.07		
Dry Density Ratio Required (%)	95		
<b>Dry Density Ratio (%)</b>	<b>96.5</b>		

Remarks
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	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

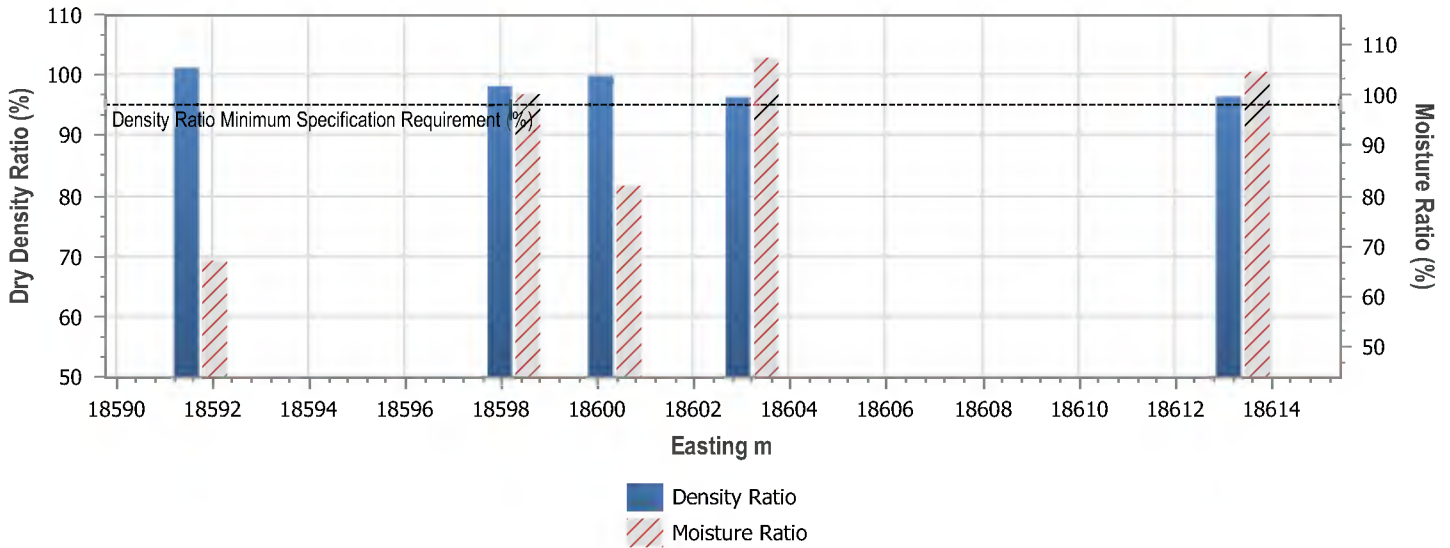
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6227-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 735-742
Location: Darwin	Internal Test Request: 21791/T/25-2489
Component: Field Density	Client Reference/s: DA 10/10/25
Area Description: Zuccoli Village	Report Date / Page: 22/10/2025 <span style="float: right;">Page 3 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


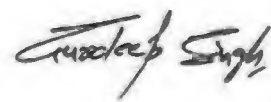
### LOT TEST RESULT SUMMARY



Tests in Lot = 5	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	67.1	107.4	92.2	17.211
Dry Density Ratio (%)	96.2	101.1	98.3	2.121

<b>Lot Number:</b>	<b>Lot 735-742</b>
<b>Mean Moisture Ratio (%):</b>	<b>92.2</b>
<b>Mean Density Ratio (%):</b>	<b>98.3</b>

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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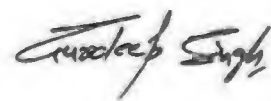
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6327-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 715 to 723
Location: Darwin	Internal Test Request: 21791/T/25-2361
Component: Fill	Client Reference/s: DA 30.09.25
Area Description: Zuccoli Village	Report Date / Page: 25/10/2025 <span style="float: right;">Page 1 of 4</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-17996	21791/S/25-17997	21791/S/25-17998	21791/S/25-17999
ID / Client ID	DA 30.09.25	DA 30.09.25	DA 30.09.25	DA 30.09.25
Lot Number	Lot 715 to 723	Lot 715 to 723	Lot 715 to 723	Lot 715 to 723
Date / Time Tested	30/09/2025 14:30	30/09/2025 14:40	30/09/2025 14:50	30/09/2025 15:00
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	FSL	FSL	FSL	FSL
Easting m	18580.184	18595.908	18613.578	18630.546
Northing m	616330.172	616341.389	616332.916	616324.447
R.L	21.424	21.493	21.672	21.775
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-17996	21791/S/25-17997	21791/S/25-17998	21791/S/25-17999
MDR Sample Date / Update	30/09/2025	30/09/2025	30/09/2025	30/09/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	7.2	10.3	9.7	9.8
Optimum Moisture Content (%)	9.5	10.5	9.5	9.5
Variation from OMC (%)	2.0% Drier than OMC	0.5% Drier than OMC	0.5% Wetter than OMC	0.0% Wetter than OMC
<b>Moisture Ratio (%)</b>	<b>77.0</b>	<b>97.0</b>	<b>103.0</b>	<b>101.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.27	2.42	2.39	2.36
Field Dry Density (t/m <sup>3</sup> )	2.12	2.20	2.18	2.15
Maximum Dry Density (t/m <sup>3</sup> )	2.18	2.19	2.19	2.17
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>97.5</b>	<b>100.5</b>	<b>99.5</b>	<b>99.0</b>

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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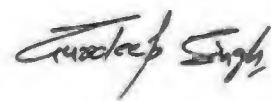
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6327-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 715 to 723
Location: Darwin	Internal Test Request: 21791/T/25-2361
Component: Fill	Client Reference/s: DA 30.09.25
Area Description: Zuccoli Village	Report Date / Page: 25/10/2025 <span style="float: right;">Page 2 of 4</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-18000	21791/S/25-18001	21791/S/25-18002	21791/S/25-18003
ID / Client ID	DA 30.09.25	DA 30.09.25	DA 30.09.25	DA 30.09.25
Lot Number	Lot 715 to 723	Lot 715 to 723	Lot 715 to 723	Lot 715 to 723
Date / Time Tested	30/09/2025 15:10	30/09/2025 15:20	30/09/2025 15:30	30/09/2025 15:40
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	FSL	FSL	Layer 1	Layer 1
Easting m	18649.527	18689.517	18672.042	18640.268
Northing m	616334.971	616321.579	616312.073	616318.078
R.L	21.691	21.368	21.391	21.574
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-18000	21791/S/25-18001	21791/S/25-18002	21791/S/25-18003
MDR Sample Date / Update	30/09/2025	30/09/2025	30/09/2025	30/09/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	8.5	9.0	8.4	8.3
Optimum Moisture Content (%)	9.5	10.0	10.5	10.5
Variation from OMC (%)	1.0% Drier than OMC	1.0% Drier than OMC	2.5% Drier than OMC	2.0% Drier than OMC
<b>Moisture Ratio (%)</b>	<b>89.0</b>	<b>90.0</b>	<b>79.0</b>	<b>79.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.33	2.36	2.24	2.24
Field Dry Density (t/m <sup>3</sup> )	2.14	2.17	2.06	2.07
Maximum Dry Density (t/m <sup>3</sup> )	2.19	2.18	2.18	2.17
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>98.0</b>	<b>100.0</b>	<b>95.0</b>	<b>95.5</b>

Remarks
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 <p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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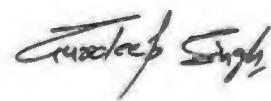
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6327-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 715 to 723
Location: Darwin	Internal Test Request: 21791/T/25-2361
Component: Fill	Client Reference/s: DA 30.09.25
Area Description: Zuccoli Village	Report Date / Page: 25/10/2025 <span style="float: right;">Page 3 of 4</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-18004	21791/S/25-18005	
ID / Client ID	DA 30.09.25	DA 30.09.25	
Lot Number	Lot 715 to 723	Lot 715 to 723	
Date / Time Tested	30/09/2025 15:50	30/09/2025 16:00	
Material Source	On-Site	On-Site	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Modified	Modified	
Stabilised Material Curing Time	-	-	
Location ID	Layer 1	Layer 1	
Easting m	18607.788	18587.218	
Northing m	616324.481	616334.978	
R.L	21.435	21.261	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	
MDR Sample Number	21791/S/25-18004	21791/S/25-18005	
MDR Sample Date / Update	30/09/2025	30/09/2025	
Assigned MDR (Yes / No)	No	No	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	8.1	7.7	
Optimum Moisture Content (%)	11.0	11.0	
Variation from OMC (%)	3.0% Drier than OMC	3.0% Drier than OMC	
<b>Moisture Ratio (%)</b>	<b>72.5</b>	<b>71.0</b>	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.24	2.24	
Field Dry Density (t/m <sup>3</sup> )	2.08	2.08	
Maximum Dry Density (t/m <sup>3</sup> )	2.17	2.17	
Dry Density Ratio Required (%)	95	95	
<b>Dry Density Ratio (%)</b>	<b>96.0</b>	<b>96.0</b>	

Remarks
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	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

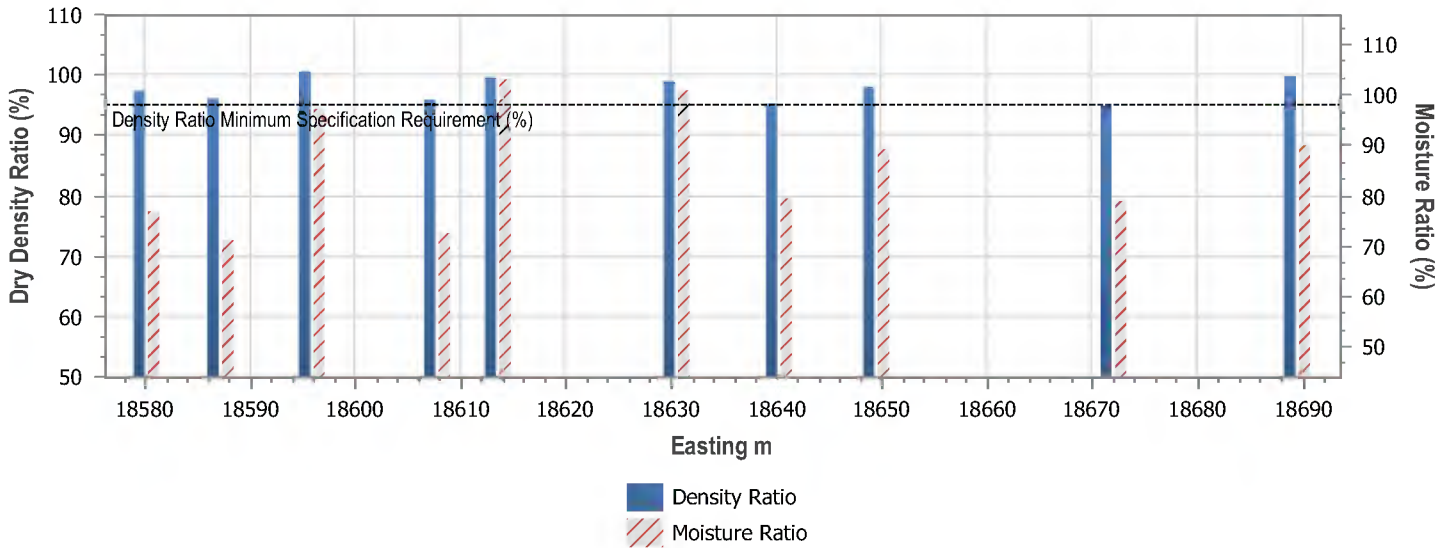
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6327-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 715 to 723
Location: Darwin	Internal Test Request: 21791/T/25-2361
Component: Fill	Client Reference/s: DA 30.09.25
Area Description: Zuccoli Village	Report Date / Page: 25/10/2025 <span style="float: right;">Page 4 of 4</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


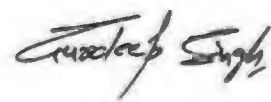
### LOT TEST RESULT SUMMARY



Tests in Lot = 10	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	71.1	103.1	85.9	11.768
Dry Density Ratio (%)	94.8	100.5	97.6	1.998

<b>Lot Number:</b>	<b>Lot 715 to 723</b>
<b>Mean Moisture Ratio (%):</b>	<b>85.9</b>
<b>Mean Density Ratio (%):</b>	<b>97.6</b>

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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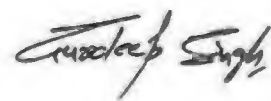
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6536-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot# 739-742
Location: Darwin	Internal Test Request: 21791/T/25-2582
Component: Field Density Testing	Client Reference/s: DA 16.10.2025
Area Description: Zuccoli	Report Date / Page: 4/11/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-19067	21791/S/25-19068	21791/S/25-19069	21791/S/25-19070
ID / Client ID	-	-	-	-
Lot Number	Lot# 739-742	Lot# 739-742	Lot# 739-742	Lot# 739-742
Date / Time Tested	16/10/2025 14:10	16/10/2025 14:20	16/10/2025 14:30	16/10/2025 14:40
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	Lot# 739-742	Lot# 739-742	Lot# 739-742	Lot# 739-742
Easting m	718615	718629	718621	718643
Northing m	8616447	8616462	8616479	8616542
R.L.				
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-19067	21791/S/25-19068	21791/S/25-19069	21791/S/25-19070
MDR Sample Date / Update	16/10/2025	16/10/2025	16/10/2025	16/10/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.6	12.3	8.5	11.3
Optimum Moisture Content (%)	13.5	13.0	11.5	13.5
Variation from OMC (%)	2.0% Drier than OMC	0.5% Drier than OMC	3.0% Drier than OMC	2.0% Drier than OMC
<b>Moisture Ratio (%)</b>	<b>86.0</b>	<b>95.0</b>	<b>75.0</b>	<b>85.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.32	2.31	2.32	2.39
Field Dry Density (t/m <sup>3</sup> )	2.08	2.06	2.13	2.15
Maximum Dry Density (t/m <sup>3</sup> )	2.10	2.04	2.14	2.08
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>99.0</b>	<b>100.5</b>	<b>100.0</b>	<b>103.0</b>

Remarks
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	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

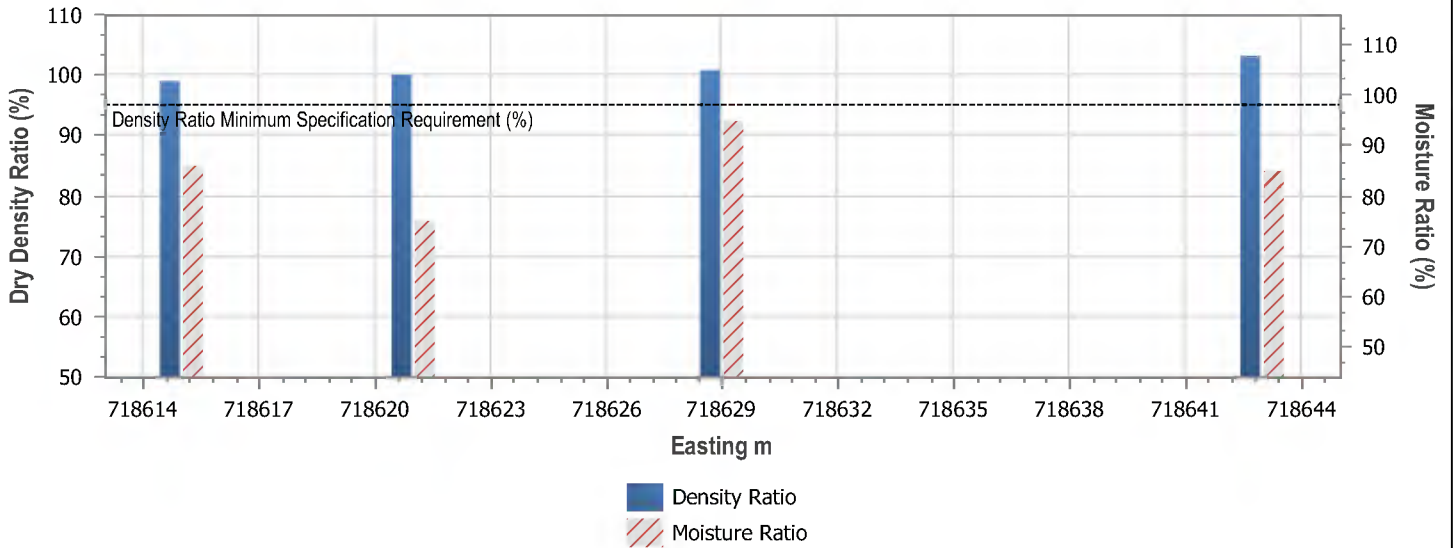
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6536-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot# 739-742
Location: Darwin	Internal Test Request: 21791/T/25-2582
Component: Field Density Testing	Client Reference/s: DA 16.10.2025
Area Description: Zuccoli	Report Date / Page: 4/11/2025 <span style="float: right;">Page 2 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


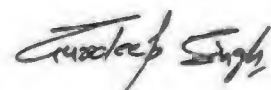
### LOT TEST RESULT SUMMARY



Tests in Lot = 4	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	74.9	94.8	85.1	8.141
Dry Density Ratio (%)	98.9	103.0	100.7	1.726

<b>Lot Number:</b>	<b>Lot# 739-742</b>
<b>Mean Moisture Ratio (%):</b>	<b>85.1</b>
<b>Mean Density Ratio (%):</b>	<b>100.7</b>

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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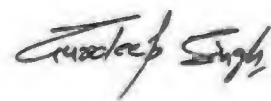
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6546-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 743 - 745
Location: Darwin	Internal Test Request: 21791/T/25-2626
Component: Fill	Client Reference/s: DA 21.10.25
Area Description: Zuccoli Village Phase 3.9	Report Date / Page: 4/11/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-19267	21791/S/25-19268	21791/S/25-19269	
ID / Client ID	DA 21.10.25	DA 21.10.25	DA 21.10.25	
Lot Number	Lot 743 - 745	Lot 743 - 745	Lot 743 - 745	
Date / Time Tested	21/10/2025 16:00	21/10/2025 16:10	21/10/2025 16:20	
Material Source	On-Site	On-Site	On-Site	
Material Type	General Fill	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Modified	Modified	Modified	
Stabilised Material Curing Time	-	-	-	
Location ID	FSL	Layer 1	FSL	
Easting m	18617.80	18617.53	18617.53	
Northing m	616547.05	616569.69	616569.68	
R.L	23.85	23.84	24.05	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	
MDR Sample Number	21791/S/25-19267	21791/S/25-19268	21791/S/25-19269	
MDR Sample Date / Update	21/10/2025	21/10/2025	21/10/2025	
Assigned MDR (Yes / No)	No	No	No	
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	9.9	13.5	5.9	
Optimum Moisture Content (%)	14.0	14.5	9.5	
Variation from OMC (%)	4.0% Drier than OMC	1.0% Drier than OMC	3.5% Drier than OMC	
<b>Moisture Ratio (%)</b>	<b>72.0</b>	<b>92.5</b>	<b>64.0</b>	
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.27	2.26	2.32	
Field Dry Density (t/m <sup>3</sup> )	2.06	1.99	2.19	
Maximum Dry Density (t/m <sup>3</sup> )	2.05	1.97	2.18	
Dry Density Ratio Required (%)	95	95	95	
<b>Dry Density Ratio (%)</b>	<b>100.5</b>	<b>101.0</b>	<b>100.5</b>	

Remarks
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 <p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

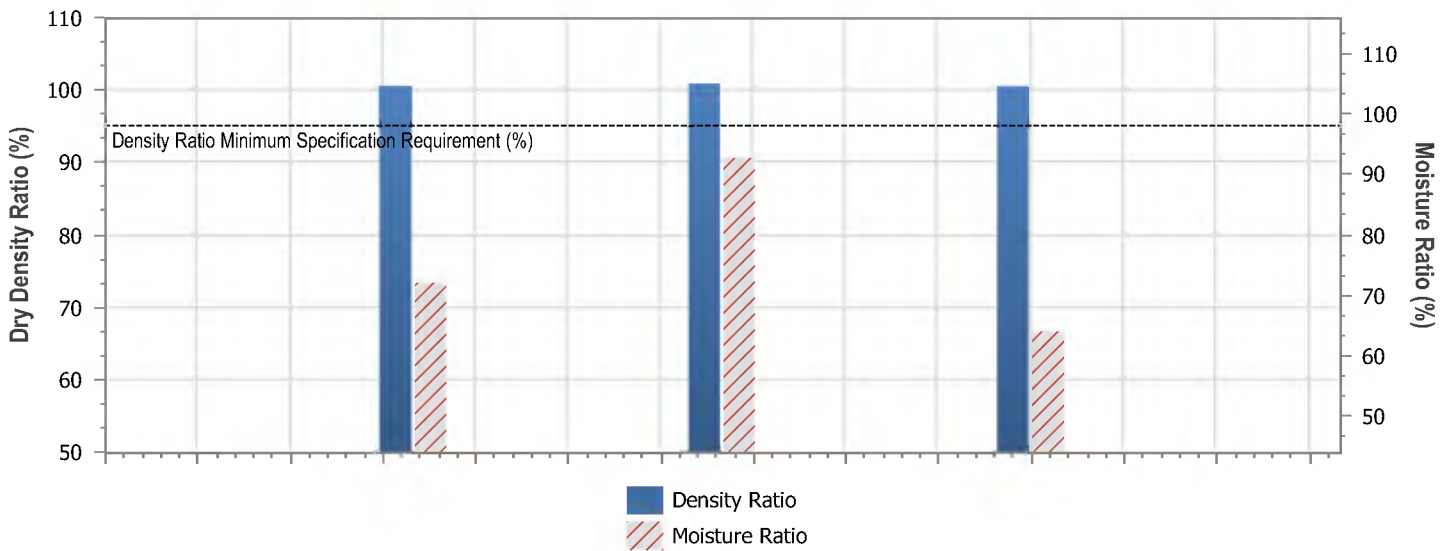
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6546-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 743 - 745
Location: Darwin	Internal Test Request: 21791/T/25-2626
Component: Fill	Client Reference/s: DA 21.10.25
Area Description: Zuccoli Village Phase 3.9	Report Date / Page: 4/11/2025 <span style="float: right;">Page 2 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


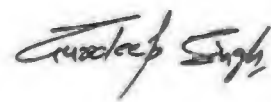
### LOT TEST RESULT SUMMARY



Tests in Lot = 3	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	63.9	92.7	76.2	14.852
Dry Density Ratio (%)	100.4	100.8	100.5	0.245

<b>Lot Number:</b>	<b>Lot 743 - 745</b>
<b>Mean Moisture Ratio (%):</b>	<b>76.2</b>
<b>Mean Density Ratio (%):</b>	<b>100.5</b>

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## DRY DENSITY RATIO / MOISTURE RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-6596-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot# 757-759
Location: Darwin	Internal Test Request: 21791/T/25-2660
Component: Field Density Testing	Client Reference/s: DA 24.10.2025
Area Description: Zuccoli	Report Date / Page: 6/11/2025 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-19454	21791/S/25-19455	21791/S/25-19456	
ID / Client ID	F.S.L	F.S.L	F.S.L	
Lot Number	Lot# 757-759	Lot# 757-759	Lot# 757-759	
Date / Time Tested	24/10/2025 14:40	24/10/2025 14:50	24/10/2025 15:05	
Material Source	On-Site	On-Site	On-Site	
Material Type	General Fill	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Modified	Modified	Modified	
Stabilised Material Curing Time	-	-	-	
Location ID	Lot# 757	Lot# 758	Lot# 759	
Easting m	18692.16	18675.96	18652.19	
Northing m	616532.10	616530.90	616527.53	
R.L	24.23	24.19	24.04	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	
MDR Sample Number	21791/S/25-19454	21791/S/25-19455	21791/S/25-19456	
MDR Sample Date / Update	24/10/2025	24/10/2025	24/10/2025	
Assigned MDR (Yes / No)	No	No	No	
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	9.7	10.6	13.8	
Optimum Moisture Content (%)	12.5	13.5	13.5	
Variation from OMC (%)	2.5% Drier than OMC	3.0% Drier than OMC	0.0% Wetter than OMC	
<b>Moisture Ratio (%)</b>	<b>78.0</b>	<b>78.5</b>	<b>101.0</b>	
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.38	2.26	2.26	
Field Dry Density (t/m <sup>3</sup> )	2.17	2.04	1.99	
Maximum Dry Density (t/m <sup>3</sup> )	2.12	2.09	2.08	
Dry Density Ratio Required (%)	95	95	95	
<b>Dry Density Ratio (%)</b>	<b>102.5</b>	<b>98.0</b>	<b>95.5</b>	

Remarks

	<p>Reported results relate only to items sampled and tested by the laboratory. Accredited for compliance with ISO/IEC 17025 - Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Sunil Sukhdeo Form ID: W27ASRep Rev 1</p>
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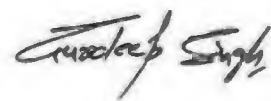

## DRY DENSITY RATIO / MOISTURE RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-4947-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot CF1
Location: Darwin	Internal Test Request: 21791/T/25-1894
Component: Field Density Testing	Client Reference/s: DA 22.08.2025
Area Description: Lot 791-794 LY 1	Report Date / Page: 3/09/2025 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-15603		
ID / Client ID	Layer 1		
Lot Number	Lot CF1		
Date / Time Tested	22/08/2025 14:40		
Material Source	On-Site		
Material Type	General Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	175 / 200 / 200		
Standard or Modified	Modified		
Stabilised Material Curing Time	-		
Location ID	Lot 791-794		
Easting m	18573.499		
Northing m	616250.804		
R.L	18.924		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize Wet / Dry (%)	0 / 0		
MDR Sample Number	21791/S/25-15603		
MDR Sample Date / Update	22/08/2025		
Assigned MDR (Yes / No)	No		
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	9.6		
Optimum Moisture Content (%)	8.5		
Variation from OMC (%)	1.0% Wetter than OMC		
<b>Moisture Ratio (%)</b>	<b>110.0</b>		
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.30		
Field Dry Density (t/m <sup>3</sup> )	2.10		
Maximum Dry Density (t/m <sup>3</sup> )	2.19		
Dry Density Ratio Required (%)	95		
<b>Dry Density Ratio (%)</b>	<b>96.0</b>		

Remarks
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Accreditation Number: 1986 Corporate Site Number: 21791	Approved Signatory: Gurdeep Singh Form ID: W27ASRep Rev 1



## DRY DENSITY RATIO / MOISTURE RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-4956-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Various
Location: Darwin	Internal Test Request: 21791/T/25-1854
Component: Level 1	Client Reference/s: DA 20.08.2025
Area Description: Zuccoli	Report Date / Page: 3/09/2025 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-15377	21791/S/25-15378	21791/S/25-15379	21791/S/25-15380
ID / Client ID	-	-	-	-
Lot Number	Lot CF5	Lot CF5	Lot CF1/CF3	Lot CF1/CF3
Date / Time Tested	20/08/2025	20/08/2025	20/08/2025	20/08/2025
Material Source	-	-	-	-
Material Type	Existing	Existing	Existing	Existing
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / - / 200	175 / - / 200	175 / - / 200	175 / - / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	698-699 LY1	698-699 LY1	Existing Drain Sec 1 LY1	Existing Drain Sec 1 LY2
Easting m	18749.971	18753.314	18557.640	18566.832
Northing m	616271.828	616296.210	616249.995	616295.958
R.L	20.182	20.511	18.441	19.317
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-15377	21791/S/25-15378	21791/S/25-15379	21791/S/25-15380
MDR Sample Date / Update	20/08/2025	20/08/2025	20/08/2025	20/08/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	9.8	9.5	11.7	10.3
Optimum Moisture Content (%)	9.0	8.0	10.0	10.5
Variation from OMC (%)	1.0% Wetter than OMC	1.5% Wetter than OMC	1.5% Wetter than OMC	Field Moisture at OMC
<b>Moisture Ratio (%)</b>	<b>109.0</b>	<b>116.0</b>	<b>114.5</b>	<b>100.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.20	2.24	2.20	2.21
Field Dry Density (t/m <sup>3</sup> )	2.01	2.04	1.97	2.00
Maximum Dry Density (t/m <sup>3</sup> )	2.10	2.12	2.06	2.08
Dry Density Ratio Required (%)	-	-	-	-
<b>Dry Density Ratio (%)</b>	<b>95.5</b>	<b>96.0</b>	<b>95.5</b>	<b>96.0</b>

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 21791		Approved Signatory: Sunil Sukhdeo Form ID: W27ASRep Rev 1

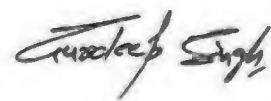

## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5044-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 816- Layer 2
Location: Darwin	Internal Test Request: 21791/T/25-1987
Component: Field Density Testing	Client Reference/s: DA 28.08.2025
Area Description: Level 1 Testing	Report Date / Page: 8/09/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-16112	21791/S/25-16113	21791/S/25-16114	21791/S/25-16115
ID / Client ID	Layer 2	Layer 2	Layer 1	Layer 1
Lot Number	Lot 816- Layer 2	Lot 817- Layer 2	Lot 817- Layer 1	Lot 816- Layer 1
Date / Time Tested	28/08/2025 15:10	28/08/2025 15:20	28/08/2025 15:30	28/08/2025 15:40
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	Lot 816	Lot 817	Lot 817	Lot 816
Easting m	18753.794	18753.489	18743.385	18742.353
Northing m	616079.800	616109.162	616107.129	616085.094
R.L	18.105	18.353	18.473	18.323
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-16112	21791/S/25-16113	21791/S/25-16114	21791/S/25-16115
MDR Sample Date / Update	28/08/2025	28/08/2025	28/08/2025	28/08/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	13.0	12.8	11.5	11.5
Optimum Moisture Content (%)	11.0	10.5	11.0	11.5
Variation from OMC (%)	2.0% Wetter than OMC	2.0% Wetter than OMC	0.5% Wetter than OMC	0.0% Wetter than OMC
<b>Moisture Ratio (%)</b>	<b>118.0</b>	<b>120.0</b>	<b>102.5</b>	<b>101.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.28	2.35	2.29	2.34
Field Dry Density (t/m <sup>3</sup> )	2.02	2.08	2.06	2.10
Maximum Dry Density (t/m <sup>3</sup> )	2.07	2.16	2.11	2.14
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>97.0</b>	<b>96.0</b>	<b>97.5</b>	<b>98.5</b>

Remarks
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Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3
Accreditation Number: 1986 Corporate Site Number: 21791	

## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

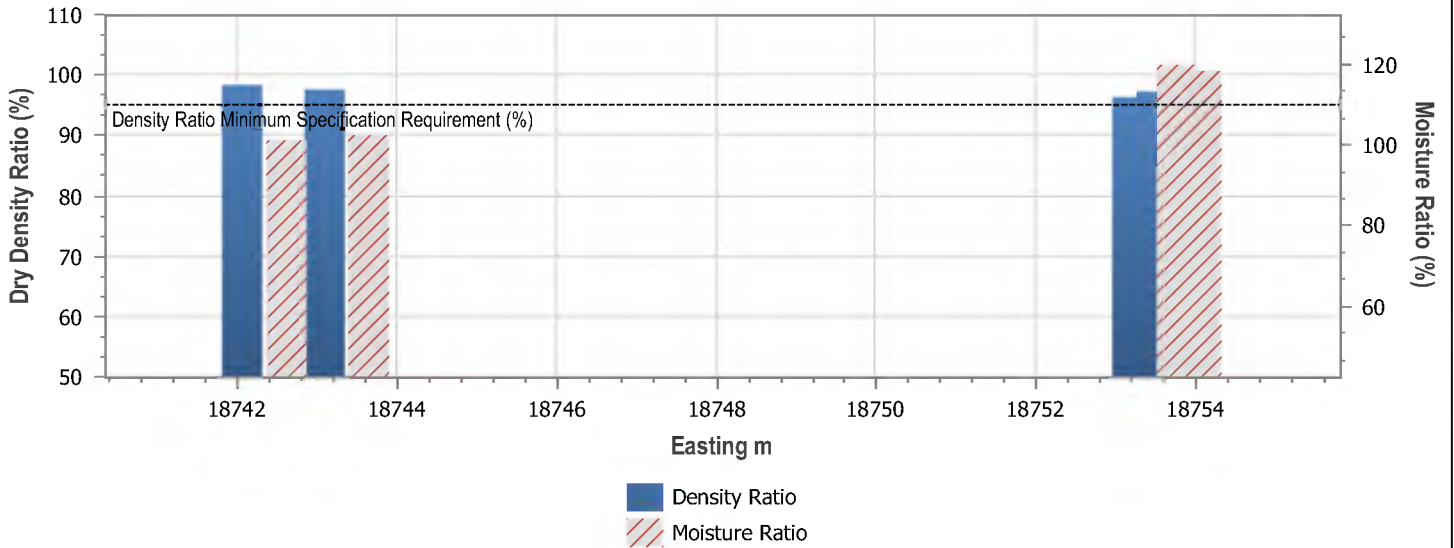
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5044-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 816- Layer 2
Location: Darwin	Internal Test Request: 21791/T/25-1987
Component: Field Density Testing	Client Reference/s: DA 28.08.2025
Area Description: Level 1 Testing	Report Date / Page: 8/09/2025 <span style="float: right;">Page 2 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


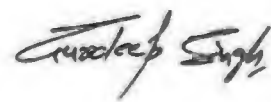
### LOT TEST RESULT SUMMARY



Tests in Lot = 4	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	101.1	119.8	110.4	10.021
Dry Density Ratio (%)	96.2	98.3	97.3	0.851

<b>Lot Number:</b>	<b>Lot 816- Layer 2</b>
<b>Mean Moisture Ratio (%):</b>	<b>110.4</b>
<b>Mean Density Ratio (%):</b>	<b>97.3</b>

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 21791		Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3

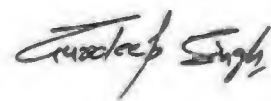

## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5423-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Existing Drain Sec 1
Location: Darwin	Internal Test Request: 21791/T/25-1870
Component: Field Density Testing	Client Reference/s: DA 21.08.2025
Area Description: Zuccoli	Report Date / Page: 19/09/2025 <span style="float: right;">Page 1 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-15427	21791/S/25-15428	21791/S/25-15429	21791/S/25-15430
ID / Client ID	-	-	-	-
Lot Number	Existing Drain Sec 1	Existing Drain Sec 1	Existing Drain Sec 1	Existing Drain Sec 1
Date / Time Tested	21/08/2025 14:10	21/08/2025 14:20	21/08/2025 14:30	21/08/2025 14:40
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Fill	Fill	Fill	Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	Layer 3	Layer 4	Layer 3	Layer 4
Easting m	18592.564	18592.564	18564.341	18564.341
Northing m	616248.631	616248.631	616225.887	616225.887
R.L	19.213	19.000	17.685	17.452
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-15427	21791/S/25-15428	21791/S/25-15429	21791/S/25-15430
MDR Sample Date / Update	21/08/2025	21/08/2025	21/08/2025	21/08/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	13.1	12.5	13.0	12.3
Optimum Moisture Content (%)	11.0	12.0	11.0	12.0
Variation from OMC (%)	2.0% Wetter than OMC	0.5% Wetter than OMC	2.0% Wetter than OMC	0.0% Wetter than OMC
<b>Moisture Ratio (%)</b>	<b>117.0</b>	<b>103.5</b>	<b>119.0</b>	<b>101.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.29	2.28	2.34	2.33
Field Dry Density (t/m <sup>3</sup> )	2.02	2.02	2.07	2.07
Maximum Dry Density (t/m <sup>3</sup> )	2.07	2.05	2.07	2.07
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>97.5</b>	<b>98.5</b>	<b>100.0</b>	<b>100.0</b>

Remarks
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Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3
Accreditation Number: 1986 Corporate Site Number: 21791	


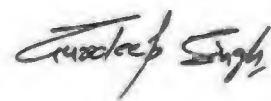
## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5423-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Existing Drain Sec 1
Location: Darwin	Internal Test Request: 21791/T/25-1870
Component: Field Density Testing	Client Reference/s: DA 21.08.2025
Area Description: Zuccoli	Report Date / Page: 19/09/2025 <span style="float: right;">Page 2 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-15431	21791/S/25-15432	
ID / Client ID	-	-	
Lot Number	Existing Drain Sec 1	Existing Drain Sec 1	
Date / Time Tested	21/08/2025 15:00	21/08/2025 15:10	
Material Source	On-Site	On-Site	
Material Type	Fill	Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Modified	Modified	
Stabilised Material Curing Time	-	-	
Location ID	Layer 3	Layer 4	
Easting <span style="float: right;">m</span>	18599.429	18599.429	
Northing <span style="float: right;">m</span>	616221.791	616221.791	
R.L.	18.485	18.210	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	
MDR Sample Number	21791/S/25-15431	21791/S/25-15432	
MDR Sample Date / Update	21/08/2025	21/08/2025	
Assigned MDR (Yes / No)	No	No	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	14.3	12.6	
Optimum Moisture Content (%)	12.5	11.0	
Variation from OMC (%)	2.0% Wetter than OMC	1.5% Wetter than OMC	
<b>Moisture Ratio (%)</b>	<b>116.5</b>	<b>114.0</b>	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.26	2.25	
Field Dry Density (t/m <sup>3</sup> )	1.97	2.00	
Maximum Dry Density (t/m <sup>3</sup> )	2.05	2.08	
Dry Density Ratio Required (%)	95	95	
<b>Dry Density Ratio (%)</b>	<b>96.0</b>	<b>96.0</b>	

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

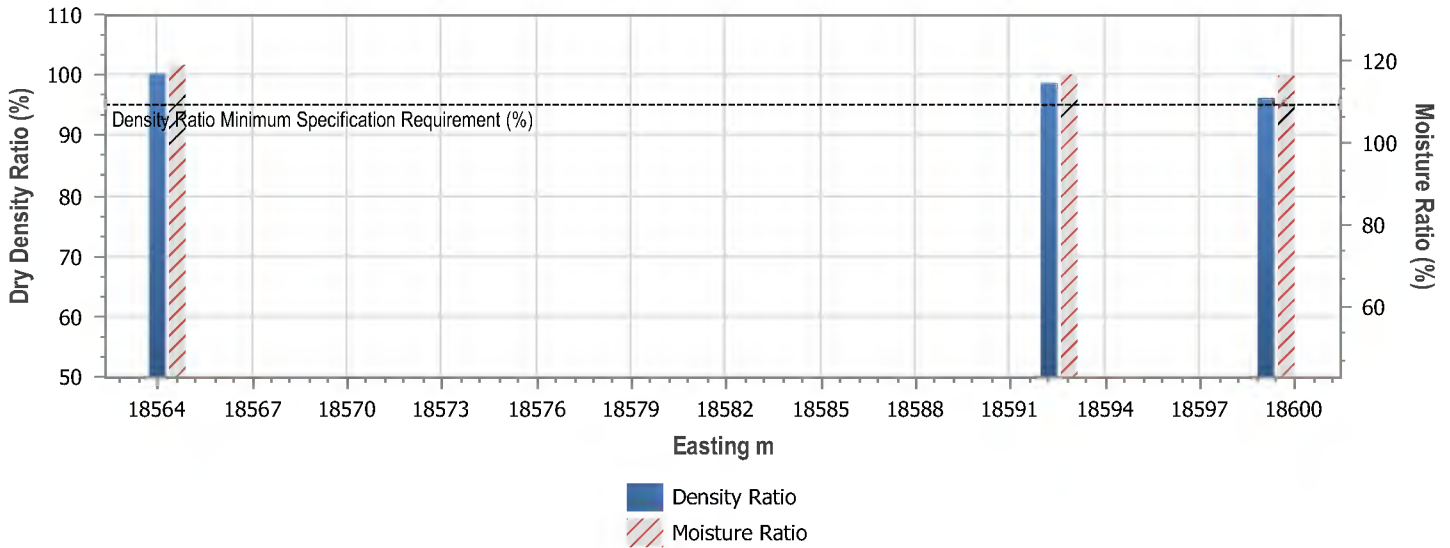
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5423-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Existing Drain Sec 1
Location: Darwin	Internal Test Request: 21791/T/25-1870
Component: Field Density Testing	Client Reference/s: DA 21.08.2025
Area Description: Zuccoli	Report Date / Page: 19/09/2025 <span style="float: right;">Page 3 of 3</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


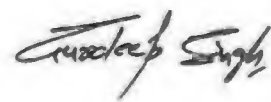
### LOT TEST RESULT SUMMARY



Tests in Lot = 6	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	101.3	119.1	111.9	7.535
Dry Density Ratio (%)	95.9	100.2	98.1	1.878

<b>Lot Number:</b>	<b>Existing Drain Sec 1</b>
<b>Mean Moisture Ratio (%):</b>	<b>111.9</b>
<b>Mean Density Ratio (%):</b>	<b>98.1</b>

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3</p>
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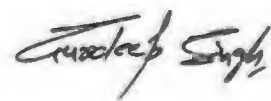

## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5425-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 815
Location: Darwin	Internal Test Request: 21791/T/25-1995
Component: Field Density Testing	Client Reference/s: DA 29.08.2025
Area Description: Level 1	Report Date / Page: 19/09/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-16129	21791/S/25-16130	
ID / Client ID	Layer 1	Layer 2	
Lot Number	Lot 815	Lot 815	
Date / Time Tested	29/08/2025 14:55	29/08/2025 15:10	
Material Source	On-Site	On-Site	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Modified	Modified	
Stabilised Material Curing Time	-	-	
Location ID	Lot 815	Lot 815	
Easting m	18752.839	18753.722	
Northing m	616079.122	616076.473	
R.L	18.153	18.318	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	
MDR Sample Number	21791/S/25-16129	21791/S/25-16130	
MDR Sample Date / Update	29/08/2025	29/08/2025	
Assigned MDR (Yes / No)	No	No	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	12.0	9.8	
Optimum Moisture Content (%)	12.5	11.0	
Variation from OMC (%)	0.5% Drier than OMC	1.0% Drier than OMC	
<b>Moisture Ratio (%)</b>	<b>97.0</b>	<b>90.0</b>	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.34	2.32	
Field Dry Density (t/m <sup>3</sup> )	2.09	2.12	
Maximum Dry Density (t/m <sup>3</sup> )	2.11	2.17	
Dry Density Ratio Required (%)	95	95	
<b>Dry Density Ratio (%)</b>	<b>99.0</b>	<b>97.5</b>	

Remarks
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Accredited for compliance with ISO/IEC 17025 – Testing		
	Accreditation Number: 1986 Corporate Site Number: 21791	Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3

## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

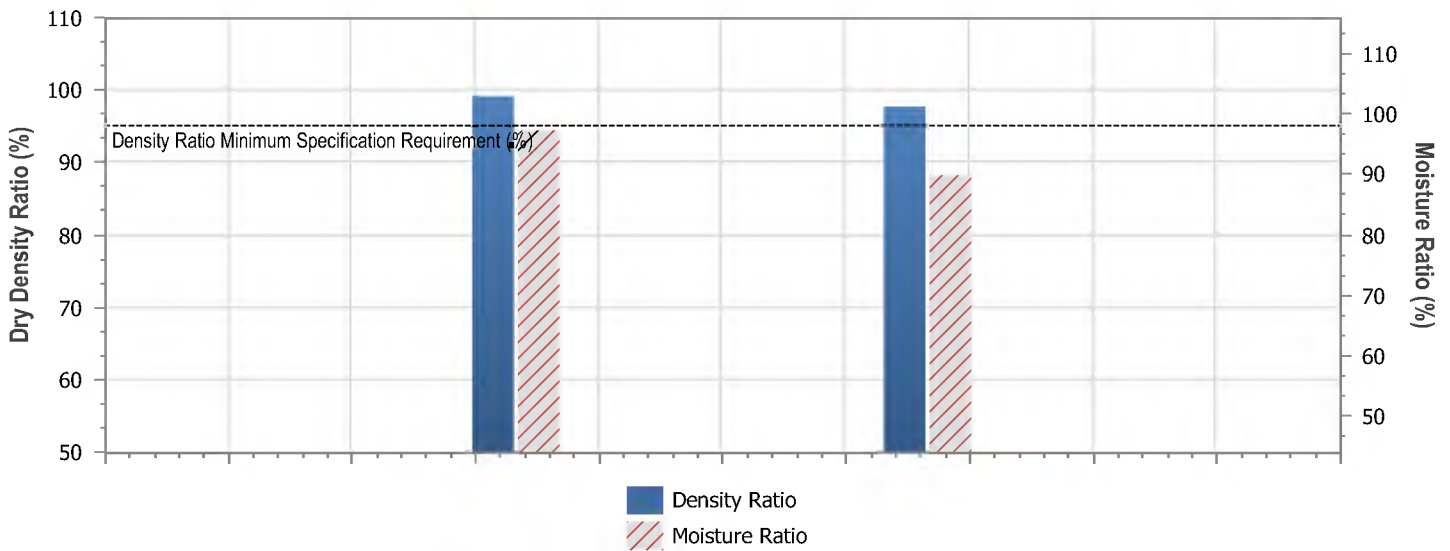
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5425-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 815
Location: Darwin	Internal Test Request: 21791/T/25-1995
Component: Field Density Testing	Client Reference/s: DA 29.08.2025
Area Description: Level 1	Report Date / Page: 19/09/2025 <span style="float: right;">Page 2 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


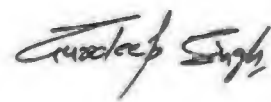
### LOT TEST RESULT SUMMARY



Tests in Lot = 2	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	89.8	97.2	93.5	5.233
Dry Density Ratio (%)	97.7	99.1	98.4	0.970

<b>Lot Number:</b>	<b>Lot 815</b>
<b>Mean Moisture Ratio (%):</b>	<b>93.5</b>
<b>Mean Density Ratio (%):</b>	<b>98.4</b>

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
	Accreditation Number: 1986 Corporate Site Number: 21791	Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3



## DRY DENSITY RATIO / MOISTURE RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5439-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot CF1
Location: Darwin	Internal Test Request: 21791/T/25-1910
Component: Field Density Testing	Client Reference/s: DA 25.08.2025
Area Description: Lot 791-794	Report Date / Page: 23/09/2025 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-15664	21791/S/25-15665	
ID / Client ID	Correction Layer 2	Correction Layer 1	
Lot Number	Lot CF1	Lot CF1	
Date / Time Tested	25/08/2025 13:20	25/08/2025 13:40	
Material Source	On-Site	On-Site	
Material Type	General Fill	General Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Modified	Modified	
Stabilised Material Curing Time	-	-	
Location ID	Lot 791- 794 CL2	Lot 791- 794 CL1	
Easting	m 18579.258	185841.75	
Northing	m 616232.38	616229.776	
R.L	18.496	18.596	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	
MDR Sample Number	21791/S/25-15664	21791/S/25-15665	
MDR Sample Date / Update	25/08/2025	25/08/2025	
Assigned MDR (Yes / No)	No	No	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	13.5	9.4	
Optimum Moisture Content (%)	11.5	11.5	
Variation from OMC (%)	2.0% Wetter than OMC	2.5% Drier than OMC	
<b>Moisture Ratio (%)</b>	<b>117.0</b>	<b>80.0</b>	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.30	2.32	
Field Dry Density (t/m <sup>3</sup> )	2.03	2.12	
Maximum Dry Density (t/m <sup>3</sup> )	2.11	2.12	
Dry Density Ratio Required (%)	95	95	
<b>Dry Density Ratio (%)</b>	<b>96.0</b>	<b>100.0</b>	

Remarks

<p>Accredited for compliance with ISO/IEC 17025 – Testing</p>  <p>Accreditation Number: 1986 Corporate Site Number: 21791</p>	 <p>Approved Signatory: Sunil Sukhdeo Form ID: W27ASRep Rev 1</p>
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## DRY DENSITY RATIO / MOISTURE RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5443-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 790-795, 813, 814
Location: Darwin	Internal Test Request: 21791/T/25-2001
Component: Field Density Testing	Client Reference/s: DA 1.09.2025
Area Description: Level 1	Report Date / Page: 23/09/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-16143	21791/S/25-16144	21791/S/25-16145	21791/S/25-16146
ID / Client ID	Layer 1	Layer 2	Layer 1	Layer 2
Lot Number	Lot 790-795, 813, 814	Lot 790-795, 813, 814	Lot 790-795, 813, 814	Lot 790-795, 813, 814
Date / Time Tested	1/09/2025 13:30	1/09/2025 13:40	1/09/2025 14:10	1/09/2025 14:20
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	Lot 813	Lot 814	Lot 790-795	Lot 790-795
Easting m	18755.572	18739.275	18577.139	18593.642
Northing m	616029.543	616041.945	616214.152	616249.751
R.L	17.459	17.792	17.989	19.716
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-16143	21791/S/25-16144	21791/S/25-16145	21791/S/25-16146
MDR Sample Date / Update	1/09/2025	1/09/2025	1/09/2025	1/09/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	12.6	10.4	8.2	10.1
Optimum Moisture Content (%)	12.0	12.0	12.0	11.0
Variation from OMC (%)	0.5% Wetter than OMC	1.5% Drier than OMC	4.0% Drier than OMC	1.0% Drier than OMC
<b>Moisture Ratio (%)</b>	<b>103.5</b>	<b>85.5</b>	<b>67.5</b>	<b>90.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.38	2.42	2.30	2.27
Field Dry Density (t/m <sup>3</sup> )	2.11	2.19	2.13	2.06
Maximum Dry Density (t/m <sup>3</sup> )	2.13	2.13	2.12	2.12
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>99.0</b>	<b>103.0</b>	<b>100.5</b>	<b>97.0</b>

Remarks
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Accredited for compliance with ISO/IEC 17025 – Testing		
	Accreditation Number: 1986 Corporate Site Number: 21791	Approved Signatory: Sunil Sukhdeo Form ID: W27ASRep Rev 1



## DRY DENSITY RATIO / MOISTURE RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5443-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Lot 790-795, 813, 814
Location: Darwin	Internal Test Request: 21791/T/25-2001
Component: Field Density Testing	Client Reference/s: DA 1.09.2025
Area Description: Level 1	Report Date / Page: 23/09/2025 <span style="float: right;">Page 2 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-16147		
ID / Client ID	Layer 1		
Lot Number	Lot 790-795, 813, 814		
Date / Time Tested	1/09/2025 14:35		
Material Source	On-Site		
Material Type	General Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	175 / 200 / 200		
Standard or Modified	Modified		
Stabilised Material Curing Time	-		
Location ID	Lot 790-795		
Easting	m 18595.059		
Northing	m 616241.499		
R.L	19.251		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize Wet / Dry (%)	0 / 0		
MDR Sample Number	21791/S/25-16147		
MDR Sample Date / Update	1/09/2025		
Assigned MDR (Yes / No)	No		
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	11.2		
Optimum Moisture Content (%)	11.5		
Variation from OMC (%)	0.5% Drier than OMC		
<b>Moisture Ratio (%)</b>	<b>97.0</b>		
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.36		
Field Dry Density (t/m <sup>3</sup> )	2.12		
Maximum Dry Density (t/m <sup>3</sup> )	2.13		
Dry Density Ratio Required (%)	95		
<b>Dry Density Ratio (%)</b>	<b>99.5</b>		

Remarks
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Accredited for compliance with ISO/IEC 17025 – Testing		
	Accreditation Number: 1986 Corporate Site Number: 21791	Approved Signatory: Sunil Sukhdeo Form ID: W27ASRep Rev 1

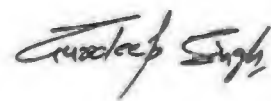

## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5607-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Various (Lot 812, 692-688)
Location: Darwin	Internal Test Request: 21791/T/25-2059
Component: Field Density Testing	Client Reference/s: DA 5.09.2025
Area Description: Zuccoli- Level 1	Report Date / Page: 30/09/2025 <span style="float: right;">Page 1 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	21791/S/25-16353	21791/S/25-16354	21791/S/25-16355	21791/S/25-16356
ID / Client ID	Layer 1	Layer 2	Layer 2	Layer 2
Lot Number	Various (Lot 812, 692-688)	Various (Lot 812, 692-688)	Various (Lot 812, 692-688)	Various (Lot 812, 692-688)
Date / Time Tested	5/09/2025 11:30	5/09/2025 11:40	5/09/2025 11:50	5/09/2025 12:05
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	General Fill	General Fill	General Fill	General Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Modified	Modified	Modified	Modified
Stabilised Material Curing Time	-	-	-	-
Location ID	Lot 812	Lot 692-688	Lot 692-688	Lot 692-688
Easting m	18750.59	18607.37	18578.00	18589.41
Northing m	615997.66	616253.34	616260.28	616264.12
R.L	17.56	19.92	19.85	19.92
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize Wet / Dry (%)	0 / 0	0 / 0	0 / 0	0 / 0
MDR Sample Number	21791/S/25-16353	21791/S/25-16354	21791/S/25-16355	21791/S/25-16356
MDR Sample Date / Update	5/09/2025	5/09/2025	5/09/2025	5/09/2025
Assigned MDR (Yes / No)	No	No	No	No
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	12.2	13.5	12.7	12.8
Optimum Moisture Content (%)	12.0	11.5	11.5	12.0
Variation from OMC (%)	Field Moisture at OMC	2.0% Wetter than OMC	1.0% Wetter than OMC	1.0% Wetter than OMC
<b>Moisture Ratio (%)</b>	<b>100.0</b>	<b>116.5</b>	<b>109.0</b>	<b>108.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.31	2.25	2.27	2.29
Field Dry Density (t/m <sup>3</sup> )	2.06	1.98	2.02	2.03
Maximum Dry Density (t/m <sup>3</sup> )	2.10	2.09	2.10	2.10
Dry Density Ratio Required (%)	95	95	95	95
<b>Dry Density Ratio (%)</b>	<b>98.0</b>	<b>95.0</b>	<b>96.0</b>	<b>96.5</b>

Remarks
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Accredited for compliance with ISO/IEC 17025 – Testing		
	Accreditation Number: 1986 Corporate Site Number: 21791	Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3

## LOT REPORT - DRY DENSITY RATIO / MOISTURE RATIO

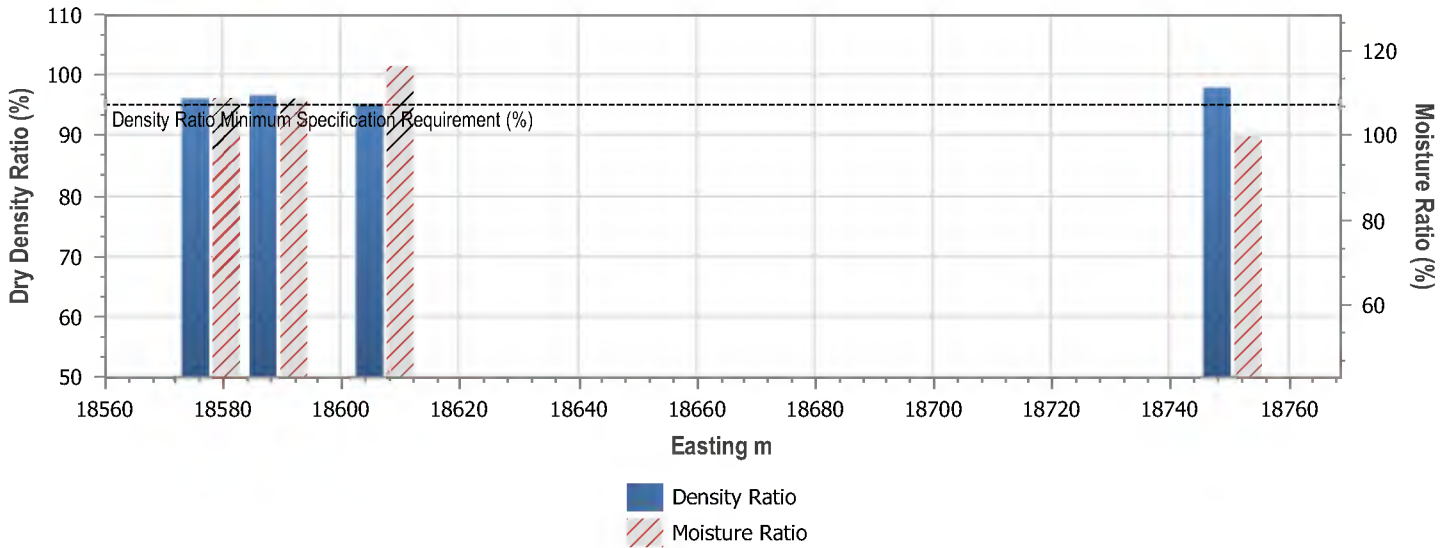
Client: BMD Urban Pty Ltd	Report Number: 21791/R/25-5607-1
Client Address: PO BOX 197, Wynnum	Project Number: 21791/P/25-33
Project: B00259-1 Zuccoli 3.8 to 3.11 - Earthworks Package	Lot Number: Various (Lot 812, 692-688)
Location: Darwin	Internal Test Request: 21791/T/25-2059
Component: Field Density Testing	Client Reference/s: DA 5.09.2025
Area Description: Zuccoli- Level 1	Report Date / Page: 30/09/2025 <span style="float: right;">Page 2 of 2</span>

Test Procedures:	AS1289.5.4.1, AS1289.1.1, AS1289.5.2.1, AS1289.5.8.1, AS1289.2.1.1
Statistical Analysis Test Method:	Lot Average (Lot average calculations are not covered by endorsement)

### Nuclear Gauge Calibration Details

Calibration Number	-	Material Source	-
Calibration Last Updated	-	Material Type	-
Nominated Calibration Layer Depth (mm)	-		


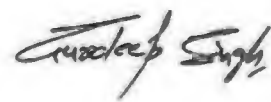
### LOT TEST RESULT SUMMARY



Tests in Lot = 4	Lot Minimum	Lot Maximum	Lot Mean	Standard Deviation
Moisture Ratio (%)	99.8	116.5	108.5	6.829
Dry Density Ratio (%)	94.9	97.9	96.3	1.243

<b>Lot Number:</b>	<b>Various (Lot 812, 692-688)</b>
<b>Mean Moisture Ratio (%):</b>	<b>108.5</b>
<b>Mean Density Ratio (%):</b>	<b>96.3</b>

Remarks

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 21791		Approved Signatory: Gurdeep Singh Form ID: W27ASRepSum Rev 3

## LOW-STRENGTH GROUND AREA DCP RESULTS (6B Soil Type Area)

An investigation was undertaken between 18/08/2025 and 22/09/2025 in areas where lo-strength material had been spread along Aztec Court to identify any areas requiring remediation. The affected areas were stripped to an acceptable level and proof rolled to assess surface stability.

Dynamic Cone Penetrometer (DCP) testing was carried out at selected locations to assess subsurface strength and assist in defining the extent of any required remediation. A total of twenty-three (23) DCP tests were undertaken across Areas 1 to 3, the southwest embankment fill area, and selected allotments along Aztec Court. The DCP testing locations are shown in Figure 1, and the corresponding results are presented in Tables 1 to 5.

Figure 1: Locations of DCP testing, designated areas, and points marked with "X".



Table 1: DCP testing details for the existing drain, pavement, and Lots 809–811 and 779–780

Depth (m)	DCP1	DCP2	DCP3	DCP4	DCP5
Date	18/08/2025	18/08/2025	1/09/2025	1/09/2025	1/09/2025
Location ID	Existing Drain	Pavement Aztec Court)	Adjacent to East Border 809	East Border 779	5m from Lot 780 on Cul-de -sac
0	4	8	4	7	5
0.1	3	4	5	18	6
0.2	3	6	5	23	4
0.3	3	6	11	27	4
0.4	3	8	18	Terminated	5
0.5	3	7	30		7

Depth (m)	DCP1	DCP2	DCP3	DCP4	DCP5
0.6	4	9	Hammer Bouncing		7
0.7	6	18			7
0.8	6	Refusal			Terminated
0.9	7				
1	13				
1.1	6				
1.2	6				
1.3	6				
1.4	6				
1.5	6				
1.6	7				
1.7	6				
1.8	5				
1.9	5				
2	7				
2.1	5				
2.2	7				
2.3	11				
2.4	15				
2.5	28				
2.6	23				
2.7	Refusal				

Table 2: The DCP results presented correspond to the locations shown in blue in Figure 1.

Depth (m)	DCP01	DCP02	DCP03	DCP04
Date	3/9/2025	3/9/2025	3/9/2025	3/9/2025
Location ID	18m South of Lot 779	42m Northeast of DCP1	18m Northeast of DCP2	16m Northeast of DCP3
0	8	5	4	7
0.1	4	2	2	6
0.2	4	2	4	6
0.3	4	3	4	6
0.4	3	2	3	5
0.5	4	2	2	Terminated
0.6	Terminated	2	1	
0.7		2	3	

Depth (m)	DCP01	DCP02	DCP03	DCP04
0.8		1	3	
0.9		3	4	
1		4	5	
1.1		6	7	
1.2		8	Terminated	
1.3		Terminated		

Table 3: DCP results for Area 2 (box-out remediation area).

Depth (m)	DCP01	DCP02	DCP03	DCP04	DCP05
Date	3/9/2025	3/9/2025	3/9/2025	3/9/2025	3/9/2025
Location ID	Border of the Spread	Border of the Spread	Border of the Spread	2.5 m SE of centre	Centre of the Box-out Area
0	5	4	2	2	1
0.1	6	5	1	1	0
0.2	5	4	3	3	1
0.3	7	5	2	2	1
0.4	Terminated	6	2	2	1
0.5		Terminated	2	2	1
0.6			1	2	1
0.7			2	2	2
0.8			1	3	2
0.9			0	3	8
1			1	8	9
1.1			2	12	11
1.2			2	Terminated	Terminated
1.3			3		
1.4			6		
1.5			8		
1.6			12		
1.7			Terminated		

Table 4: DCP results for Area 3 (Box-out for Remediation)

Depth (m)	DCP01	DCP02	DCP03
Date	8/9/2025	8/9/2025	8/9/2025
Location ID	Border of the Spread	Border of the Spread	Border of the Spread
0	1	0	1

Depth (m)	DCP01	DCP02	DCP03
0.1	2	1	1
0.2	1	0	1
0.3	0	1	1
0.4	1	1	2
0.5	2	4	3
0.6	4	5	3
0.7	8	7	6
0.8	7	Terminated	Terminated
0.9	Terminated		

Table 5: Summary of DCP results for the southwest embankment.

Depth (m)	DCP01	DCP02	DCP03	DCP04	DCP05	DCP06
Date	22/9/2025	22/9/2025	22/9/2025	22/9/2025	22/9/2025	22/9/2025
Location ID	North boundary of the embankment	5m south to DCP1	5m south to DCP2	North boundary of the embankment	5m south to DCP4	5m south to DCP5
0	3	11	16	4	5	5
0.1	3	10	20	6	8	4
0.2	3	16	17	4	7	4
0.3	4	Terminated	Terminated	7	9	7
0.4	3			8	20	8
0.5	3			10	Terminated	Terminated
0.6	10			Terminated		
0.7	25					
0.8	Refusal					

**Hayden Riggs** | Senior Geotechnical Engineer / Darwin Team Lead  
**Mobile:** +61 (0) 457 777 246 | **Darwin**

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**From:** Jay Thampi <Jay.Thampi@bmd.com.au>

**Sent:** Thursday, 11 September 2025 1:15 PM

**To:** Hayden Riggs <hayden.riggs@cmwgeo.com>; Dilush Anthonige <dilush.anthonige@cmwgeo.com>

**Cc:** Panayioti Hatzivalsamis <Panayioti.Hatzivalsamis@bmd.com.au>; Matthew Trenow <Matthew.Trenow@bmd.com.au>; Andrew Nakov <Andrew.Nakov@bmd.com.au>

**Subject:** Zuccoli Phase 3.9-3.11 BEWs - Rock Fill Layer methodology

Hi Hayden,

As discussed, please find attached our proposed methodology . The intent is to limit rock fill layer to 800mm below subgrade FSL.

Please let me know if you need any more information

Kind regards

**Jay Thampi**

**SENIOR PROJECT ENGINEER**

**BMD URBAN**

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The BMD Group acknowledges the Traditional Owners of the lands in which we operate and pay respect to Elders past, present and emerging.

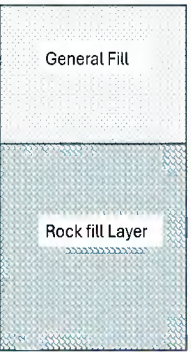
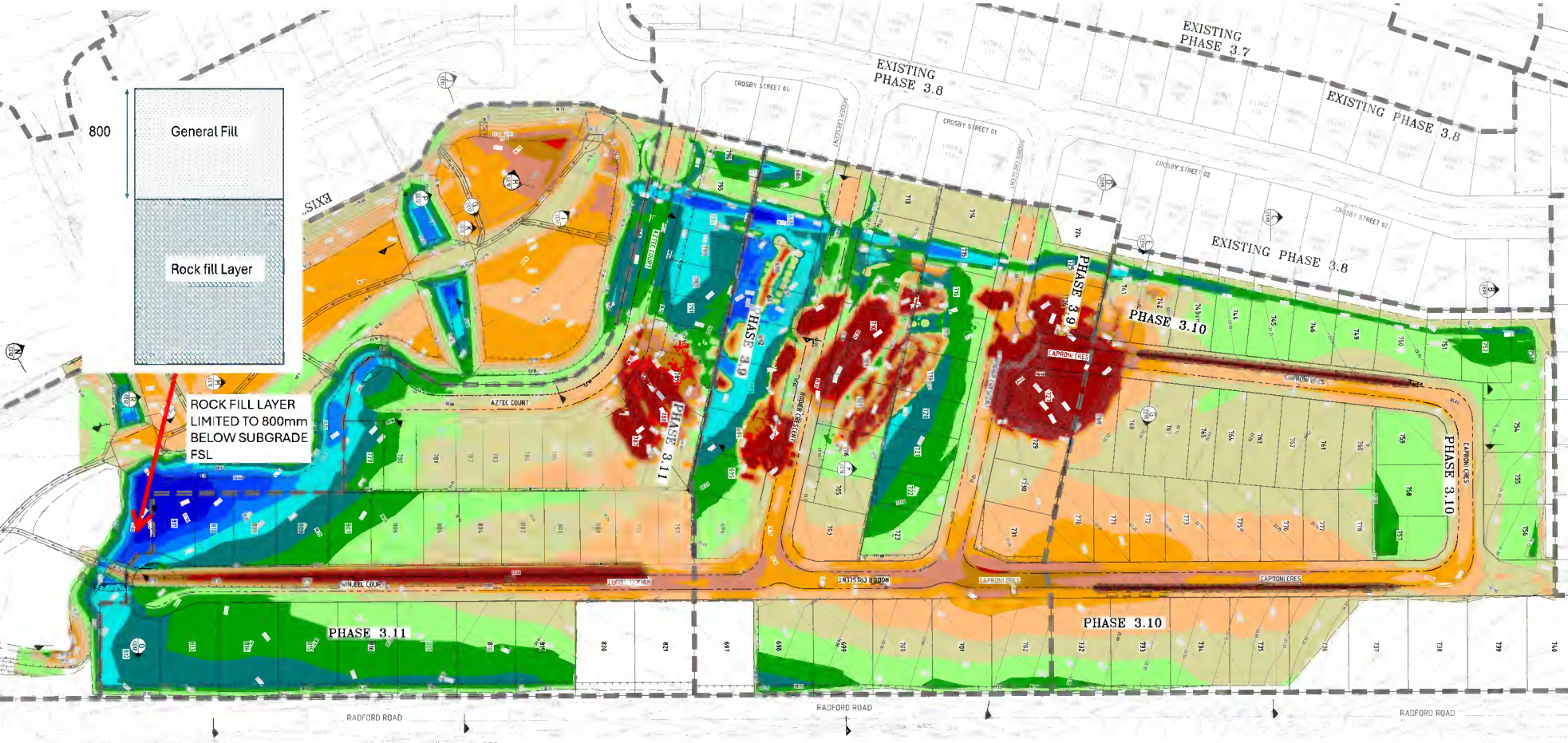
Learn more about our [Reconciliation Action Plan](#).

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**EARTHWORKS DEPTH RANGE**

TIN EXISTING minus 100mm (with stockpiles) TO TIN TEMP BOXING (with temp drains)

	FILL 0 - 0.25m		CUT 0 - 0.25m
	FILL 0.25 - 0.5m		CUT 0.25 - 0.5m
	FILL 0.5 - 0.75m		CUT 0.5 - 0.75m
	FILL 0.75 - 1.0m		CUT 0.75 - 1.0m
	FILL 1.0 - 1.25m		CUT 1.0 - 1.25m
	FILL 1.25 - 1.5m		CUT 1.25 - 1.5m
	FILL 1.5m+		CUT 1.5m+



ROCK FILL LAYER LIMITED TO 800mm BELOW SUBGRADE FSL

---

**RE: Zuccoli Phase 3.9-3.11 BEWs - Rock Fill Layer methodology**

---

**From** Hayden Riggs <hayden.riggs@cmwgeo.com>

**Date** Fri 9/12/2025 1:32 PM

**To** Jay Thampi <Jay.Thampi@bmd.com.au>; Dilush Anthonige <dilush.anthonige@cmwgeo.com>

**Cc** Panayioti Hatzivalsamis <Panayioti.Hatzivalsamis@bmd.com.au>; Matthew Trenow <Matthew.Trenow@bmd.com.au>; Andrew Nakov <Andrew.Nakov@bmd.com.au>

Hi Jay,

Please see the below:

NT main roads spec for reference:

**4.5.5.2 Rocky Material Method**

Use where material contains some cobbles and boulders (maximum size 600 mm) with sufficient fines for the work to be free of voids.

- Break up rocks bridging between adjacent material to prevent cavities being formed.
- Maximum rock dimension: 600 mm or one-half the height of fill at the section where the rock is placed.
- Spread material in layers approximately equal to the maximum rock size.
- Work the rocky material in each layer until it is firm and unyielding.
- Construct to the bottom of the subgrade layer.
- Use standard fill for the subgrade layer

And the advice provided in As3798:

A method specification will usually include required moisture conditioning, a minimum number of passes of a given roller and a maximum layer thickness. Such method specification should be decided upon once the nature of the material to be placed is known and after consideration of the proposed use of the fill. The method specification should be part of the documentation (see Clause 3.3), although it may need to be developed in conjunction with a geotechnical professional.

The method specification for placement of coarse granular material may include test rolling to assist in evaluating the stability of fill materials being placed (see Clause 5.5).

**5.5 TEST ROLLING**

Areas upon which structural fills are to be constructed, all layers of structural fill, and materials within 150 mm of permanent subgrade level in cuttings should be compacted so as to be capable of withstanding test rolling **without visible deformation or springing.**

Suitable plant for test rolling procedures may consist of the following:

- (a) Static smooth steel wheeled rollers with a mass of not less than 12 t and a load intensity under either the front or rear wheels of not less than 6 t/m width of wheel.
- (b) Pneumatic tyred plant with a mass of not less than 20 t and a ground contact pressure under either the front or rear wheels of not less than 450 kPa per tyre. The area over which this ground contact pressure is applied should be not less than 0.035 m<sup>2</sup> per tyre.
- (c) Highway truck with rear axle or axles loaded to not less than 8 t each with tyres inflated to 550 kPa.

Fill layers should be test-rolled immediately following completion of compaction. If further test-rolling is required at some later date, the surface should be moisture-conditioned, as required, and given not less than four coverages of the testing roller before test rolling resumes.

Any areas where visible deformation or springing is detected by test-rolling should be rectified and re-presented for test-rolling, or the opinion of the designer should be sought. Where unstable areas exceed 20% of the area being considered by test-rolling, the whole of the area should be ripped, recompacted and re-presented for test rolling.

An alternative method for test-rolling is to use an impact roller or impact compaction, a non-circular towed or self-propelled module that imparts a high energy dynamic force. Impact rollers can be utilized to identify weak zones or soft spots, but will tend to loosen the surface layer.

It is recommended that a minimum of 8 passes with a vibratory padfoot roller is undertaken, however the method spec needs to be provided by yourself.

Cheers,



**CMW Darwin**

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