

Level One Supervision – Statement of Compliance

Level One Supervision **121770/B006-B007** **Lucas L2** **Lucas Estate**

Report Prepared for: Den Ouden Contracting

Den Ouden Contracting / ATT: Billy Den Ouden

billy@denoudencontracting.com.au

Report Prepared by H.Pyke- A.S. James Pty Ltd

26th July 2022



A.S. JAMES Pty Ltd

Geotechnical & Environmental Engineers
Since 1963

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1. INTRODUCTION

This report summarises inspections, Level 1 site testing and compaction results in accordance with the relevant Australian Standards for the earthworks undertaken for general site filling at Lucas L2, Lucas Estate. The fill works were carried out in proposed House Lot 2047 only.

Background:

Level 1 supervision and testing was provided during site filling works on Lucas L2 House Lot 2047 to bring this lot to Finished Fill Level.

Testing Methods:

Inspections, testing and supervision have been carried out by our trained field and laboratory technicians. The testing commenced at a maximum depth of 400mm below finished fill level and extended to finished fill level. The levels given in the reports are approximate levels and some small variation in levels may be expected.

The Level 1 Inspections and Testing covers the highlighted area across House Lot 2047 only (Refer to Plan).

In situ density testing carried out using a nuclear density gauge in accordance with AS 1289.5.8.1. Laboratory standard half compaction testing carried out in accordance with AS 1289.5.7.1 'Methods of Testing Soils for Engineering Purposes'.

Based on the inspections and testing carried out by this office between the 30/6/2022 and 7/7/2022, the fill placed on the above mentioned lot satisfies the requirements of AS 3798 SECTION 8.2 and therefore can be categorised as controlled fill.

2. RESULTS

Inspections:

Initial inspections were carried out on the natural subgrade prior to filling works commencing. These included the removal of vegetation and deleterious material as well proof rolling of the prepared base taking place to ensure the integrity of the sub-grade material before to any filling works commenced.

Materials Used:

The material used during supervised works was the onsite generated material. All material was of a good quality and close to optimum moisture content when excavated on site. Please see individual daily report for material descriptions.

Testing:

Density testing was carried out on a routine basis, testing each compacted layer that generally did not exceed 300mm in thickness.

A total of 3 tests were carried out during these works, with all tested locations achieving a final standard density ratio, at or greater than the specified 95%, and at a moisture content that was between the required 85% to 115% moisture ratio.

Testing for Lucas L2 is covered in reports 121770/B006-B007. Testing frequency has been adopted in accordance with Australian standard as specified in AS 3798 – 2007.

Note:

All excavations and backfilling works for sewer and drainage services have not been covered under Level 1 supervision.

A copy of all testing reports, both field and laboratory, along with inspection and daily field activity reports is attached.

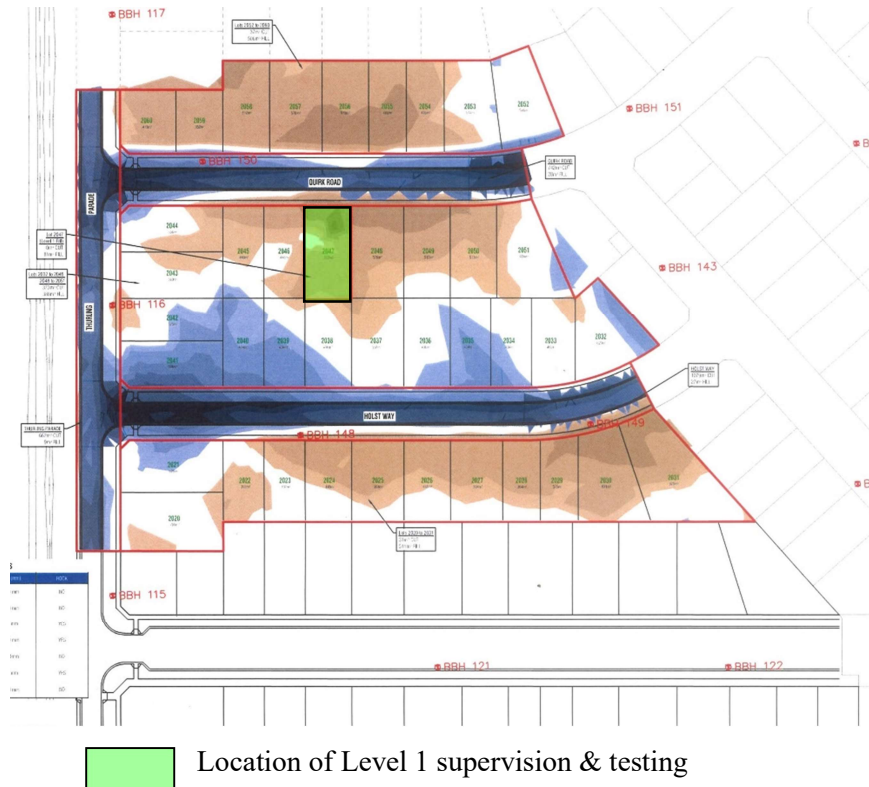
The results of these works indicate acceptable compliance to these compaction requirements.

3. STATEMENT OF COMPLIANCE

A.S. James has undertaken supervision and testing on a level 1 basis in accordance with AS 3798 ‘Guidelines of earthworks for residential developments’.

If the site is left for extended periods and is not free draining and is unprotected/un-maintained, softening of the surface fills may occur between the date of earthworks completion and building construction commencing.

If this is the case, it may be necessary at the commencement of construction to assess the site and determine the depth of moisture penetration into the surface fills and based on this information recommendations to either strip/rework may need to be provided.



Ballarat Facility P.O. Box 1319 Bakery Hill Vic. A.S.James Contact H.Pyke 0409 090 233 heathp@asjames.com.au	JOB: Stage L2 Lucas Estate	JOB No: 121770
		REPORT No: B006
		DATE: 26/07/2022

REPORT OF SITE INSPECTION

Client Den Ouden Contracting
 PO Box 345
 SEBASTOPOL VIC 3356

Site Contact Billy Den Ouden
Contact Email billy@denoudencontracting.com.au

TYPE OF INSPECTION: Visual

LOCATION: House Lot 2047

MEAN LEVEL: Finished Subgrade Level - Approximately 0.6-0.8m Below Finished Fill Level

MATERIAL TYPE: Silty CLAY

EQUIPMENT USED: N/A

OBSERVATIONS: The constructor has stripped the proposed area free of organics, topsoil and silt to expose the anticipated underlying natural Silty CLAY.

CONCLUSIONS AND REMARKS: The constructor was advised to padfoot the base of the prepared area prior to commencing the placement of the proposed fill material.

DATE OF INSPECTION: 30/6/22

INSPECTION CARRIED OUT BY: H.Pyke

IN THE PRESENCE OF: Damien (Den Ouden Contracting)

CERTIFIED BY: _____  26/07/2022

A.S.JAMES SUPERVISING GEOTECHNICAL ENGINEER D.Gunn

Ballarat Facility P.O. Box 1319 Bakery Hill Vic. A.S.James Contact H.Pyke 0409 090 233 heathp@asjames.com.au	JOB: Stage L2 Lucas Estate	Job No. 121770
		Report No. B007
		Date 26/07/2022

Section Tested: House Lot Fill

For Den Ouden Contracting
 PO Box 345
 SEBASTOPOL VIC 3356
Att to Billy Den Ouden
Email billy@denoudencontracting.com.au

Test Number	64	65	66		
Date of Field Test	07/07/22	07/07/22	07/07/22		
Time of Field Test	10:37	10:40	10:42		
Date of Laboratory Test	08/07/22	08/07/22	08/07/22		
Location	Chainage:	See	See	See	
	Offset:	Sketch	Sketch	Sketch	
Depth of Test	400	300	FFL		
Test Layer Thickness (mm)	300	300	300		
Probe Depth (mm)	300	300	300		
Material Type	Silty CLAY, Gravelly	Silty CLAY, Gravelly	Silty CLAY, Gravelly		
Maximum Converted Wet Density (t/m3)	2.10	2.11	1.94		
Optimum Moisture Content (%)	19.5	25.0	30.5		
Field Wet Density (t/m3)	2.17	2.16	1.92		
Field Dry Density (t/m3)	1.81	1.76	1.47		
Field Moisture Content (%)	19.5	22.5	30.5		
Oversize Material (%)	0	8	1		
Compaction Type	Standard	Standard	Standard		
Oversize Retained on :	19mm	19mm	19mm		
Moisture Ratio (%)	100.0	91.5	100.0		
Moisture Variation (%)	0.0	2.0	0.0		
Wet/Dry of Optimum	Dry	Dry	Wet		
Hilf Density Ratio	103.5	102.5	99.5		

Notes: DEPTH OF TESTS TAKEN FROM BELOW & FINISHED FILL LEVEL



Accredited for compliance with ISO/IEC 17025 - Testing
 Accreditation No 9855

Approved Signatory
 H.Pyke (Dip. Lab. Tech.)



26-Jul-22

HILF DENSITY/MOISTURE RATIO, NUCLEAR GAUGE METHOD AS PER AS1289 - 1.1, 1.2.1(6.4),2.1.1,5.7.1,5.8.1 A.S.JAMES FORM No: LR005 FIG 1 / REV 12 / 12/11/21	TESTED BY : H.Pyke	FIGURE
	CHECKED BY: H.Pyke	1 of 2



A.S. JAMES PTY.LTD

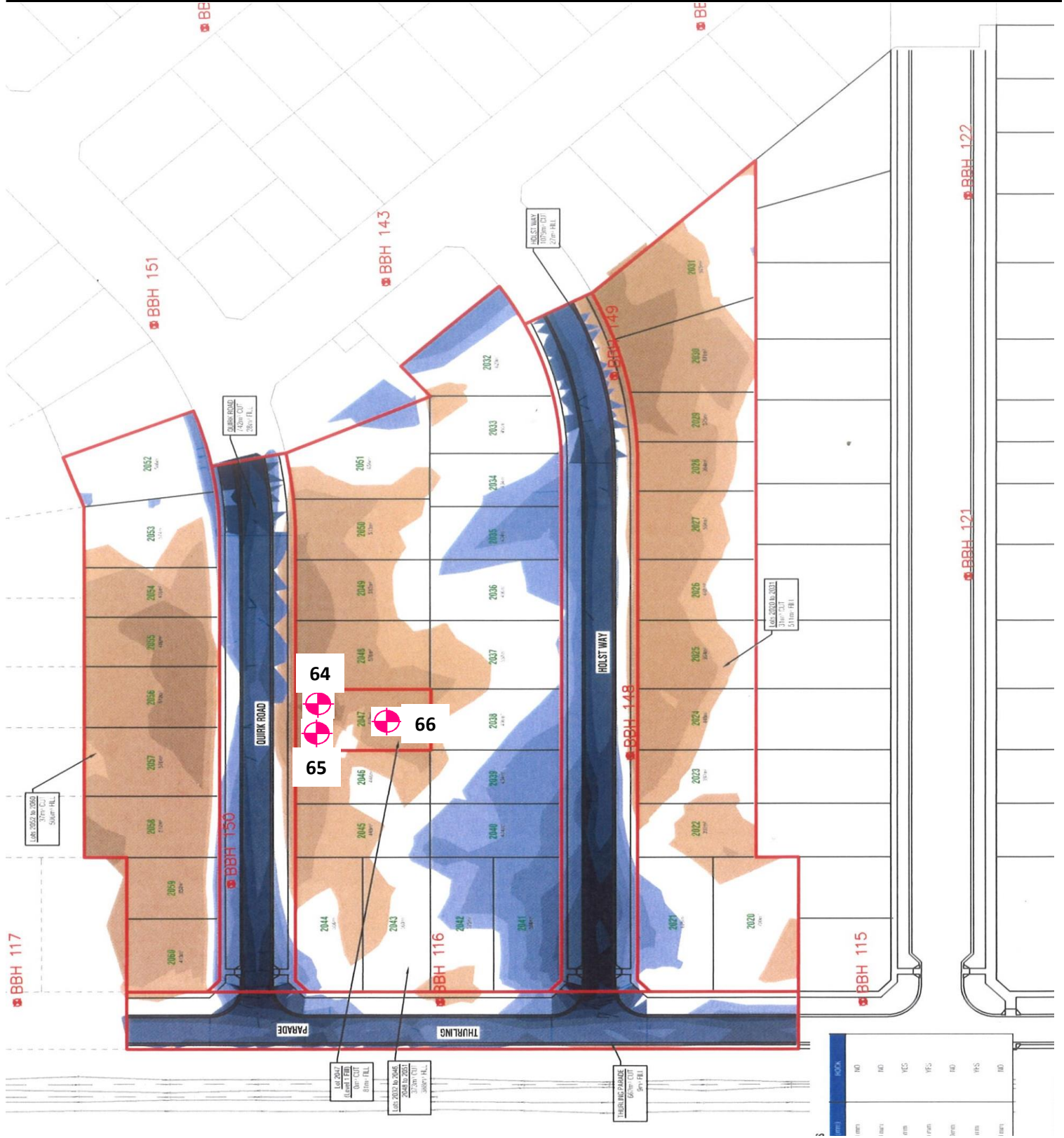
Geotechnical Engineers
Ballarat Facility
P.O. Box 1319 Bakery Hill Vic.
Accreditation No 9855

JOB:
Stage L2
Lucas Estate

Job No. 121770

Report No. B007

Date 26/07/2022



TEST LOCATIONS
DISTANCES GIVEN IN METRES

N.T.S

HILF DENSITY/MOISTURE RATIO, NUCLEAR GAUGE METHOD
AS PER AS1289 - 1.1, 1.2.1(6.4), 2.1.1.5, 7.1.5, 8.1
A.S.JAMES FORM No: LR005 FIG 3 / REV 3 / 30/01/03

TESTED BY : H.Pyke
CHECKED BY: H.Pyke

FIGURE
2 of 2



Ballarat Facility P.O. Box 1319 Bakery Hill Vic. A.S.James Contact H.Pyke 0409 090 233 heathp@asjames.com.au	JOB:	JOB No: 121770
	Stage L2	REPORT No: B007/1
	Lucas Estate	DATE: 26/07/2022

DAILY GEOTECHNICAL ACTIVITY REPORT On Site: 10:00 Off Site: 11:00

Developer :	Constructor: Den Ouden Contracting	Superintendent: Damien
Testing Authority: A.S.James Pty Ltd	Level of GTA brief:	Level one Supervision by Testing Authority
Weather Conditions: Overcast, Showery		

Equipment on Site	In Use	Not in Use		In Use	Not in Use
Excavator	√		Water cart		
Pad Foot vibrating roller	√		D6 Dozer		
815 Compactor			Dump Truck (On Site)		
Grader			Trucks (From off site)		

Works in progress

Location	
Stripping	
Excavating	
Filling	House Lot
Rolling	House Lot

Comments, Details & Observations:
 The constructor has continued to place the site won fill material within lot 2047. The constructor has filled the area to finished fill level due to the weather conditions in an attempt to finish the area. Testing has been carried out at varying depths with the material tested appearing to be well compacted and slightly dry of optimum moisture content. Assuming that the tests taken pass, this will complete the level 1 supervision and testing for this lot.

Inspections
 Inspection Type & Location:

Comments & Details:

Material Type / Quality / Source / Approval:
 Gravelly Silty CLAY - Site won, material appears suitable for immediate placement and is close to optimum moisture content.

Compaction Testing:

Numbers performed	3	Test No.s	64-66	Location	House Lot
Numbers performed		Test No.s		Location	
Numbers performed		Test No.s		Location	

Specification Requirements

Standard / Modified	Density Ratio (%)	98
Standard	Moisture Ratio (%)	85 - 115

Compliance to Specification

	Conforming Tests	Non Conforming Tests
Density	64,65,66	
Moisture	64,65,66	

Site Instructions Given (Tick box)

Approval to Place Fill	[v]	Filling Methods Approved	[v]	Rework / Re-roll required	[]
Stripped surface Not / Approved	[v]	Filled Area Under Review	[]	Moisture Conditioning required	[]

Comments & Details