



# Australian Geotechnical Testing

## Level One Inspection and Testing

**Project No: AGTE230504**

**Project: Miravale Stage 7**

**Suburb: Angle Vale**



**Client: Neo Infrastructure**

**Date: 23/11/23**

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Geotechnical	Pavement	Environmental	Residential	Design
Slope Stability Assessment	Land Capability Assessments	Erosion and Sediment Control Plan		
Retaining Walls	Level 1 Supervision	Earthworks Specification's	Percolation	

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# Contents

**Contents ..... 2**

**1 Introduction ..... 1**

**2 Scope of Works ..... 1**

**3 Inspections / Supervision ..... 1**

**4 Testing ..... 2**

**5 Conclusion ..... 2**

**6 Applicability ..... 3**

**Appendix A – Site Plan ..... 4**

**Appendix B – Laboratory Testing ..... 5**

## 1 Introduction

Australian Geotechnical Testing (AGT) has been engaged by Neo Infrastructure to provide Level 1 Geotechnical Supervision for the Miravale Stage 7 project. The Estate is located at Angle Vale.

This Level 1 report presents the results of supervision activities, compaction and moisture control, material placement and laboratory testing for ground works undertaken for the project. This report covers construction activities carried out from the 13<sup>th</sup> of April 2023 to 27<sup>th</sup> of April 2023.

## 2 Scope of Works

The scope of works involved the placement of on-site General Fill. Fill Material was placed in Level one fill areas, in accordance with **AS 3798-2007, Guidelines on earthworks for commercial and residential developments and project specifications**. The level of FILL to be placed is less than 5m as per AS3798 Section 1.1.

The fill material is required as per AS3798 and the project specification to achieve:

- **95% Standard Maximum Dry Density (Compaction)**

General fill material used for the construction was locally sourced and predominantly comprising of **Gravelly Sandy CLAY**.

## 3 Inspections / Supervision

Full-time Level 1 supervision and inspection was undertaken including the supervision and inspections regarding the stripping and removal as per AS3798 Section 3 shall have removed:

- Organic soils, such as topsoils, severely root affected subsoils and peat;
- Contaminated soils are part of the brief;
- Materials which undergo volume change or loss of strength when disturbed and exposed to moisture;
- Silts, or materials that have deleterious engineering properties of silt;
- Other materials with properties that are unsuitable for the forming of structural fill;
- Fill that contains wood, metal plastic, boulders or other deleterious material, in sufficient proportions to affect the required performance of the fill.
- The maximum particle size of any rocks or other lumps, within the layer, has not exceeded two-thirds ( $\frac{2}{3}$ ) of the compacted layer thickness.

The lots inspected were essentially homogeneous in relation to material type and moisture condition, rolling response and compaction technique and which has been used for the assessment of relative compaction of an area of work (AS3798 Section 1.2.8).

Prior to placement any existing filled ground, for which the conditions of the placement are not adequately documented have not been assumed to have been of either standard compaction or of the composition adequate to support fill or any loads has been removed (AS3798 Section 2).

## 4 Testing

The project was classified as **Residential**, thereby requiring a minimum compaction result of **95%** density ratio Standard Compaction for the **cohesive soils** (AS 1289 5.7.1 & 5.1.1) throughout the Level 1 Fill and in accordance with AS 3798-2007 – Table 5.2. The test was performed using a Nuclear Density Gauge for field density determination AS 1289.5.8.1.

As a minimum testing was undertaken either 3 tests per lot, 1 test per 2,500m<sup>2</sup> per layer, or 1 test per 500m<sup>3</sup> throughout the placement of fill as per AS3798 Table 8.1.

The material was **site derived Sandy CLAY Fill & Imported Gravelly Sandy CLAY**. The material was placed in approximately 300mm loose layers, rolling effort with on-site Compactor (to seal of each layer of placed General Fill material) to a compacted 200mm layer that achieved 95% Standard Compaction which met Australian Standards specifications. This was considered the best method to achieve compaction using the plant and machinery available.

The NATA compaction reports verify the achievement of the minimum density requirement of 95% Standard Compaction throughout the full depth area, with each layer tested accordingly. All test results were provided to our client: Neo Infrastructure for inclusion within their internal quality system.

At the completion of the structural layers and material within 150mm of permanent subgrade level in cuttings, test rolling was undertaken and the layers withstood test rolling without visible deformation or springing (AS 3798 Section 5.5).

The area covered by this Level 1 Supervision report is shown in the Site Plan (Refer to Appendix A). The results of the laboratory Testing are indicated in Appendix B.

## 5 Conclusion

On the completion of the earthworks and after analysing the materials used, it has been concluded that the filling procedure conducted by **our client Neo Infrastructure satisfied** the general requirements of AS 3798 regards to the placement of fill materials on a project under Level 1 Supervision and in accordance with the project specification as provided to AGT.

The fill meets the requirements for “structural fill for residential applications” in accordance with AS3798. The fill has been placed, compacted and tested in accordance with AS3798 and the fill meets the requirements for controlled fill in accordance with AS2870 (2011) “Residential Slabs and Footings”.

This report has been prepared for the benefit of our client with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose without our prior review and agreement. No responsibility for this report will be taken by AGT if it is altered in any way, or not reproduced in full.

## 6 Applicability

The findings and conclusions contained in this Report are made based on site conditions that existed at the time this work was conducted. The conclusions presented in this report are relevant to the conditions of the site and the state of legislation currently enacted as at the date of this report.

Findings and conclusions are made assuming that the soil, groundwater, geological and chemical conditions detailed within this report are accurate and remain applicable to the site at the time of writing. The conclusions of this report may become invalid if filling or excavation occurs after the boreholes and test pits referred to in this report were drilled or excavated. No other warranties are made or intended.

AGT has used a degree of skill and care ordinarily exercised by reputable members of our profession practicing in the same or similar locality.

AGT does not make any representation or warranty that the conclusions in this report will be applicable in the future as there may be changes in the condition of the site, applicable legislation or other factors that would affect the conclusions contained in this report. This report has been prepared exclusively for use by our Client. This report cannot be reproduced without the written authorisation of AGT and then can only be reproduced in its entirety.



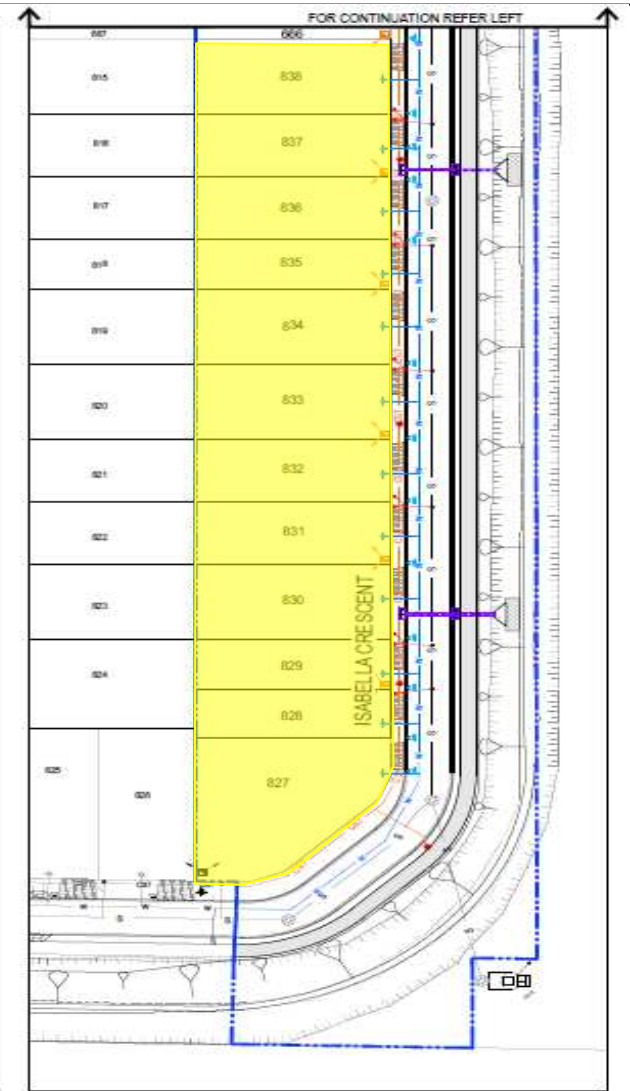
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## Appendix A – Site Plan





**Key**

 Level One Fill Location



SITE PLAN - NOT TO SCALE



Report No

AGTE230504

**Miravale Stage 7**

**Angle Vale**

Neo Infrastructure

## Appendix B – Laboratory Testing



# Project Summary Report

**Report Date:** 23/11/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Contact:** Don Winter **Project Number:** AGT41333  
**Project Name:** Miravale Stage 7 **Project Location:** Angle Vale  
**Specification:** 95% Standard AS1289 5.1.1  
**Test Methods:** AS 1289 5.1.1 STD & 5.4.1 & 5.8.1 & 2.1.1



Australian Geotechnical Testing  
 Adelaide Laboratory 37 Nicholson Road Evanston South SA 5116  
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Lot #	Sample #	Date Sampled	Location	Line / Offset	Offset	Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	41333-1	03/04/2023	Lot - 615	12m S	3m E	**	Subgrade	98.0	0.5	13.7	2.06
**	41333-2	03/04/2023	Lot - 620	18m S	2m E	**	Subgrade	99.0	2.0	11.9	2.07
**	41333-3	03/04/2023	Lot - 619	6m S	5m E	**	Layer 1	102.5	0.5	12.2	2.21
**	41333-4	03/04/2023	Lot - 614	20m S	3m E	**	Layer 1	102.0	1.0	11.7	2.22
**	41333-5	04/04/2023	Allotment Fill - Lot 616	4m E	16m S	**	Layer 2	98.5	2.0	10.7	2.08
**	41333-6	04/04/2023	Allotment Fill - Lot 620	2m E	10m S	**	Layer 2	102.0	1.0	12.2	2.15
**	41333-7	05/04/2023	Allotment Fill - Lot 614	3m E	16m S	**	Layer 3	102.5	1.0	12.6	2.17
**	41333-8	05/04/2023	Allotment Fill - Lot 618	2m E	12m S	**	Layer 3	98.0	0.5	13.5	2.10
**	41333-9	05/04/2023	Allotment Fill - Lot 609	4m E	10m S	**	Subgrade	98.0	0.5	12.3	2.16
**	41333-10	05/04/2023	Allotment Fill - Lot 612	3m E	14m S	**	Subgrade	98.0	-0.5	9.5	2.17
**	41333-11	05/04/2023	Allotment Fill - Lot 610	3m E	9m S	**	Layer 1	98.0	-0.5	9.8	2.18
**	41333-12	05/04/2023	Allotment Fill - Lot 613	5m E	8m S	**	Layer 1	98.0	0.0	9.6	2.19
**	41333-13	12/04/2023	Allotment Fill - Lot 666	4m S	16m E	**	Subgrade	97.5	-1.5	7.7	2.21
**	41333-14	12/04/2023	Allotment Fill - Lot 664	5m S	10m E	**	Subgrade	96.5	-1.5	8.1	2.20
**	41333-15	12/04/2023	Allotment Fill - Lot 662	2m S	12m E	**	Subgrade	98.0	-1.5	7.6	2.20
**	41333-16	12/04/2023	Allotment Fill - Lot 665	5m S	20m E	**	Subgrade	96.5	-0.5	6.8	2.20
**	41333-17	12/04/2023	Allotment Fill - Lot 663	4m S	12m E	**	Subgrade	97.0	-1.5	7.8	2.21
**	41333-18	12/04/2023	Allotment Fill - Lot 661	3m S	9m E	**	Subgrade	99.0	-1.5	7.9	2.21
**	41333-19	13/04/2023	Roadway Fill - Isabella crescent	10m N	2m W	**	Subgrade	102.0	1.0	9.2	2.24
**	41333-20	13/04/2023	Roadway Fill - Isabella crescent	16m N	1m W	**	Layer 1	101.0	1.0	9.0	2.20
**	41333-21	13/04/2023	Allotment Fill - Lot 828	3m S	10m E	**	Subgrade	100.5	0.5	9.5	2.23
**	41333-22	13/04/2023	Allotment Fill - Lot 828	4m S	20m E	**	Layer 1	100.5	0.0	9.7	2.20
**	41333-23	13/04/2023	Allotment Fill - Lot 666	3m S	16m E	**	Layer 2	102.0	1.5	8.3	2.24
**	41333-24	13/04/2023	Allotment Fill - Lot 664	5m S	12m E	**	Layer 2	100.5	1.5	8.8	2.20
**	41333-25	13/04/2023	Allotment Fill - 662	4m S	13m E	**	Layer 2	102.0	-1.5	9.1	2.27
**	41333-26	17/04/2023	Allotment Fill - Lot 661	3m S	10m E	**	Layer 3	100.5	0.5	9.3	2.17
**	41333-27	17/04/2023	Allotment Fill - Lot 663	4m S	16m E	**	Layer 3	101.0	0.5	8.5	2.20
**	41333-28	17/04/2023	Allotment Fill - Lot 665	5m S	12m E	**	Layer 3	98.5	0.0	9.4	2.18
**	41333-29	17/04/2023	Allotment Fill - Lot 666	4m S	6m E	**	Layer 4	103.5	0.5	8.9	2.22
**	41333-30	17/04/2023	Allotment Fill - Lot 664	4m S	18m E	**	Layer 4	101.5	1.5	10.0	2.19
**	41333-31	17/04/2023	Allotment Fill - Lot 662	2m S	20m E	**	Layer 4	101.5	0.5	8.7	2.22
**	41333-32	17/04/2023	Allotment Fill - Lot 661	3m S	16m E	**	Layer 5	101.5	1.5	7.5	2.21
**	41333-33	17/04/2023	Allotment Fill - Lot 663	2m S	10m E	**	Layer 5	100.5	-1.5	8.8	2.22
**	41333-34	17/04/2023	Allotment Fill - Lot 665	4m S	21m E	**	Layer 5	100.5	1.5	7.6	2.19
**	41333-35	18/04/2023	Lot 662 - Refer To Plan	**	**	**	Layer 6	99.0	2.0	7.6	2.16
**	41333-36	18/04/2023	Lot 664 - Refer To Plan	**	**	**	Layer 6	96.5	1.0	10.6	2.16
**	41333-37	18/04/2023	Lot 666 - Refer To Plan	**	**	**	Layer 6	95.5	0.5	9.0	2.14
**	41333-38	19/04/2023	Lot 660	6m S	15m E	**	Subgrade	102.5	0.5	8.9	2.25
**	41333-39	19/04/2023	Lot 623	10m S	12m E	**	Subgrade	103.0	2.0	7.2	2.24
**	41333-40	19/04/2023	Lot 623	8m N	18m E	**	Layer 1	98.5	-2.0	8.4	2.21
**	41333-42	20/04/2023	Allotment Fill - Lot 624	10m S	3m E	**	Subgrade	100.5	-1.5	9.2	2.23
**	41333-43	20/04/2023	Allotment Fill - Lot 626	6m S	4m E	**	Subgrade	98.5	-2.0	9.0	2.19
**	41333-44	20/04/2023	Allotment Fill - Lot 628	14m S	8m E	**	Subgrade	100.5	-0.5	8.9	2.21
**	41333-45	20/04/2023	Allotment Fill - Lot 628	21m S	7m E	**	Layer 1	101.5	2.0	7.8	2.22
**	41333-46	20/04/2023	Allotment Fill - Lot 626	16m S	4m E	**	Layer 1	99.5	0.0	8.7	2.19
**	41333-47	20/04/2023	Allotment Fill - Lot 624	14m S	2m E	**	Layer 1	98.5	0.0	9.5	2.22
**	41333-61	21/04/2023	Allotment Fill - Lot 662	4m S	10m E	**	Layer 2	99.5	0.0	8.4	2.21
**	41333-62	21/04/2023	Allotment Fill - Lot 625	10m S	2m E	**	Layer 2	97.5	-1.0	9.8	2.21
**	41333-63	21/04/2023	Allotment Fill - Lot 627	21m S	4m E	**	Layer 2	96.5	-2.0	9.2	2.19
**	41333-64	21/04/2023	Allotment Fill - Lot 629	10m S	3m E	**	Subgrade	97.5	-1.0	9.2	2.22
**	41333-65	21/04/2023	Allotment Fill - Lot 630	12m S	4m E	**	Layer 1	**	**	8.4	2.21
**	41333-66	21/04/2023	Allotment Fill - Lot 629	9m S	5m E	**	Layer 2	98.0	-0.5	9.6	2.21
**	41333-67	21/04/2023	Allotment Fill - Lot 659	4m S	12m E	**	Layer 2	96.5	-1.5	9.7	2.19
**	41333-68	24/04/2023	Allotment Fill - Lot 631	4m S	10m E	**	Subgrade	100.0	0.0	9.5	2.21
**	41333-69	24/04/2023	Allotment Fill - Lot 633	2m S	16m E	**	Subgrade	102.0	1.0	9.5	2.22

**	41333-70	24/04/2023	Allotment Fill - Lot 607	3m S	9m E	**	Subgrade	98.0	2.0	5.5	2.23
**	41333-71	24/04/2023	Allotment Fill - Lot 608	3m S	13m E	**	Layer 1	98.5	2.0	5.5	2.22
**	41333-72	24/04/2023	Allotment Fill - Lot 2003	5m S	18m E	**	Layer 1	101.5	1.0	8.4	2.23
**	41333-73	24/04/2023	Allotment Fill - Lot 632	3m S	12m E	**	Layer 1	102.5	-0.5	9.5	2.26
**	41333-74	24/04/2023	Allotment Fill - Lot 612	16m S	3m E	**	Layer 2	95.0	1.0	5.8	2.16
**	41333-75	24/04/2023	Allotment Fill - Lot 609	10m S	4m E	**	Layer 2	100.0	1.0	8.9	2.18
**	41333-77	26/04/2023	Allotment Fill - Lot 607	4m S	14m E	**	Layer 2	98.5	0.5	8.4	2.20
**	41333-78	26/04/2023	Allotment Fill - Lot 633	2m S	17m E	**	Layer 2	99.0	1.0	7.1	2.22
**	41333-79	26/04/2023	Allotment Fill - Lot 631	3m S	8m E	**	Layer 2	99.0	-0.5	6.8	2.22
**	41333-80	26/04/2023	Allotment Fill - Lot 630	10m S	4m E	**	Layer 3	101.0	-1.5	8.4	2.24
**	41333-81	26/04/2023	Allotment Fill - Lot 628	14m S	7m E	**	Layer 3	99.5	-1.5	9.0	2.23
**	41333-82	26/04/2023	Allotment Fill - Lot 626	10m S	3m E	**	Layer 3	101.0	0.5	7.3	2.18
**	41333-83	27/04/2023	Allotment Fill - Lot 608	3m S	14m E	**	Layer 3	99.0	1.0	5.9	2.20
**	41333-84	27/04/2023	Allotment Fill - Lot 2003	2m S	16m E	**	Layer 3	98.0	0.5	5.8	2.19
**	41333-85	27/04/2023	Allotment Fill - Lot 632	2m S	10m E	**	Layer 3	100.0	0.5	7.7	2.19

**Moisture Variation Note:**

Positive values = test is dry of OMC Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-1  
**Issue Number:** 1  
**Date Issued:** 06/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9283  
**Date Sampled:** 03/04/2023  
**Dates Tested:** 04/04/2023 - 04/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

## Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

	41333-1	41333-2	41333-3	41333-4
Sample Number	41333-1	41333-2	41333-3	41333-4
Date Tested	03/04/2023	03/04/2023	03/04/2023	03/04/2023
Time Tested	08:30	08:40	14:45	15:10
Test Request #/Location	Lot - 615	Lot - 620	Lot - 619	Lot - 614
Line / Offset	12m S	18m S	6m S	20m S
Offset	3m E	2m E	5m E	3m E
Layer / Reduced Level	Subgrade	Subgrade	Layer 1	Layer 1
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
Test Depth (mm)	150	150	150	150
Fraction Tested (mm)	19.0	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**	**
Oversize (dry basis) %	**	**	**	**
Curing Hours	3.5	3.7	3.8	4.0
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.06	2.07	2.21	2.22
Field Moisture Content %	13.7	11.9	12.2	11.7
Field Dry Density t/m <sup>3</sup>	1.82	1.85	1.97	1.98
Maximum Dry Density t/m <sup>3</sup>	1.86	1.87	1.92	1.95
Adjusted Maximum Dry Density t/m <sup>3</sup>	**	**	**	**
Optimum Moisture Content (OMC) %	14.0	14.0	13.0	12.5
Adjusted Optimum Moisture Content (OMC) %	**	**	**	**
Moisture Variation %	0.5	2.0	0.5	1.0
Moisture Ratio %	96.5	85.0	95.0	92.0
Density Ratio %	<b>98.0</b>	<b>99.0</b>	<b>102.5</b>	<b>102.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

### Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-2  
**Issue Number:** 1  
**Date Issued:** 06/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9295  
**Date Sampled:** 04/04/2023  
**Dates Tested:** 04/04/2023 - 06/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

## Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

	41333-5	41333-6	
Sample Number	41333-5	41333-6	
Date Tested	04/04/2023	04/04/2023	
Time Tested	10:00	10:12	
Test Request #/Location	Allotment Fill - Lot 616	Allotment Fill - Lot 620	
Line / Offset	4m E	2m E	
Offset	16m S	10m S	
Layer / Reduced Level	Layer 2	Layer 2	
Thickness of Layer (mm)	200	200	
Soil Description	Sandy Clay	Sandy Clay	
Test Depth (mm)	150	150	
Fraction Tested (mm)	19.0	19.0	
Oversize (wet basis) %	**	**	
Oversize (dry basis) %	**	**	
Curing Hours	26.6	26.3	
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	
Field Wet Density t/m <sup>3</sup>	2.08	2.15	
Field Moisture Content %	10.7	12.2	
Field Dry Density t/m <sup>3</sup>	1.88	1.91	
Maximum Dry Density t/m <sup>3</sup>	1.91	1.88	
Adjusted Maximum Dry Density t/m <sup>3</sup>	**	**	
Optimum Moisture Content (OMC) %	13.0	13.0	
Adjusted Optimum Moisture Content (OMC) %	**	**	
Moisture Variation %	2.0	1.0	
Moisture Ratio %	83.0	93.5	
Density Ratio %	<b>98.5</b>	<b>102.0</b>	
Compaction Method	<b>Standard</b>	<b>Standard</b>	

### Moisture Variation Note:

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-3  
**Issue Number:** 1  
**Date Issued:** 06/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9299  
**Date Sampled:** 05/04/2023  
**Dates Tested:** 05/04/2023 - 06/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1						
Sample Number	41333-7	41333-8	41333-9	41333-10	41333-11	41333-12
Date Tested	05/04/2023	05/04/2023	05/04/2023	05/04/2023	05/04/2023	05/04/2023
Time Tested	07:50	08:00	09:00	09:10	09:30	09:35
Test Request #/Location	Allotment Fill - Lot 614	Allotment Fill - Lot 618	Allotment Fill - Lot 609	Allotment Fill - Lot 612	Allotment Fill - Lot 610	Allotment Fill - Lot 613
Line / Offset	3m E	2m E	4m E	3m E	3m E	5m E
Offset	16m S	12m S	10m S	14m S	9m S	8m S
Layer / Reduced Level	Layer 3	Layer 3	Subgrade	Subgrade	Layer 1	Layer 1
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
Test Depth (mm)	175	175	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**	**	**	**
Oversize (dry basis) %	**	**	**	**	**	**
Curing Hours	2.0	2.2	2.5	2.7	2.8	2.8
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.17	2.10	2.16	2.17	2.18	2.19
Field Moisture Content %	12.6	13.5	12.3	9.5	9.8	9.6
Field Dry Density t/m <sup>3</sup>	1.93	1.85	1.92	1.98	1.99	2.00
Maximum Dry Density t/m <sup>3</sup>	1.88	1.89	1.96	2.02	2.03	2.03
Adjusted Maximum Dry Density t/m <sup>3</sup>	**	**	**	**	**	**
Optimum Moisture Content (OMC) %	14.0	13.5	12.5	9.0	9.5	9.5
Adjusted Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Moisture Variation %	1.0	0.5	0.5	-0.5	-0.5	0.0
Moisture Ratio %	91.5	98.0	97.0	103.5	105.5	101.5
Density Ratio %	<b>102.5</b>	<b>98.0</b>	<b>98.0</b>	<b>98.0</b>	<b>98.0</b>	<b>98.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-4  
**Issue Number:** 1  
**Date Issued:** 06/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9342  
**Date Sampled:** 12/04/2023  
**Dates Tested:** 13/04/2023 - 13/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1						
Sample Number	41333-13	41333-14	41333-15	41333-16	41333-17	41333-18
Date Tested	12/04/2023	12/04/2023	12/04/2023	12/04/2023	12/04/2023	12/04/2023
Time Tested	09:16	09:21	09:28	12:10	12:26	12:34
Test Request #/Location	Allotment Fill - Lot 666	Allotment Fill - Lot 664	Allotment Fill - Lot 662	Allotment Fill - Lot 665	Allotment Fill - Lot 663	Allotment Fill - Lot 661
Line / Offset	4m S	5m S	2m S	5m S	4m S	3m S
Offset	16m E	10m E	12m E	20m E	12m E	9m E
Layer / Reduced Level	Subgrade	Subgrade	Subgrade	Subgrade	Subgrade	Subgrade
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
Test Depth (mm)	175	175	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	11	19	20	21	21	17
Oversize (dry basis) %	10	17	18	20	21	16
Curing Hours	2.0	2.2	2.3	5.3	6.7	7.3
Method used to Determine Plasticity	Visual/tactile	**	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.21	2.20	2.20	2.20	2.21	2.21
Field Moisture Content %	7.7	8.1	7.6	6.8	7.8	7.9
Field Dry Density t/m <sup>3</sup>	2.05	2.03	2.05	2.05	2.05	2.05
Maximum Dry Density t/m <sup>3</sup>	**	**	**	**	**	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.10	2.11	2.09	2.13	2.11	2.07
Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	6.0	7.0	6.5	6.5	6.5	6.5
Moisture Variation %	-1.5	-1.5	-1.5	-0.5	-1.5	-1.5
Moisture Ratio %	123.5	119.5	120.0	104.5	120.5	121.5
Density Ratio %	<b>97.5</b>	<b>96.5</b>	<b>98.0</b>	<b>96.5</b>	<b>97.0</b>	<b>99.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC



# Material Test Report

**Report Number:** AGT41333-5  
**Issue Number:** 1  
**Date Issued:** 06/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9355  
**Date Sampled:** 13/04/2023  
**Dates Tested:** 14/04/2023 - 17/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1						
Sample Number	41333-19	41333-20	41333-21	41333-22	41333-23	41333-24
Date Tested	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023
Time Tested	08:05	08:16	08:21	08:35	12:40	13:00
Test Request #/Location	Roadway Fill - Isabella crescent	Roadway Fill - Isabella crescent	Allotment Fill - Lot 828	Allotment Fill - Lot 828	Allotment Fill - Lot 666	Allotment Fill - Lot 664
Line / Offset	10m N	16m N	3m S	4m S	3m S	5m S
Offset	2m W	1m W	10m E	20m E	16m E	12m E
Layer / Reduced Level	Subgrade	Layer 1	Subgrade	Layer 1	Layer 2	Layer 2
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
Test Depth (mm)	175	175	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	15	12	14	16	17	13
Oversize (dry basis) %	14	11	12	15	17	12
Curing Hours	48.5	48.7	48.4	48.6	48.8	49.2
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.24	2.20	2.23	2.20	2.24	2.20
Field Moisture Content %	9.2	9.0	9.5	9.7	8.3	8.8
Field Dry Density t/m <sup>3</sup>	2.05	2.01	2.04	2.01	2.07	2.02
Maximum Dry Density t/m <sup>3</sup>	**	**	**	**	**	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.01	2.00	2.03	2.00	2.02	2.02
Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	10.0	10.0	10.0	9.5	10.0	10.0
Moisture Variation %	1.0	1.0	0.5	0.0	1.5	1.5
Moisture Ratio %	90.5	89.0	93.5	102.0	84.5	86.0
Density Ratio %	<b>102.0</b>	<b>101.0</b>	<b>100.5</b>	<b>100.5</b>	<b>102.0</b>	<b>100.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-6  
**Issue Number:** 1  
**Date Issued:** 06/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9356  
**Date Sampled:** 13/04/2023  
**Dates Tested:** 14/04/2023 - 18/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41333-25		
Date Tested	13/04/2023		
Time Tested	13:15		
Test Request #/Location	Allotment Fill - 662		
Line / Offset	4m S		
Offset	13m E		
Layer / Reduced Level	Layer 2		
Thickness of Layer (mm)	200		
Soil Description	Gravelly Sandy Clay		
Test Depth (mm)	175		
Fraction Tested (mm)	19.0		
Oversize (wet basis) %	18		
Oversize (dry basis) %	17		
Curing Hours	2.7		
Method used to Determine Plasticity	Visual/tactile		
Field Wet Density t/m <sup>3</sup>	2.27		
Field Moisture Content %	9.1		
Field Dry Density t/m <sup>3</sup>	2.08		
Maximum Dry Density t/m <sup>3</sup>	**		
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.03		
Optimum Moisture Content (OMC) %	**		
Adjusted Optimum Moisture Content (OMC) %	8.0		
Moisture Variation %	-1.5		
Moisture Ratio %	116.5		
Density Ratio %	<b>102.0</b>		
Compaction Method	<b>Standard</b>		

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-7  
**Issue Number:** 1  
**Date Issued:** 06/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9373  
**Date Sampled:** 17/04/2023  
**Dates Tested:** 18/04/2023 - 20/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1						
Sample Number	41333-26	41333-27	41333-28	41333-29	41333-30	41333-31
Date Tested	17/04/2023	17/04/2023	17/04/2023	17/04/2023	17/04/2023	17/04/2023
Time Tested	08:15	08:20	08:25	14:30	14:35	14:40
Test Request #/Location	Allotment Fill - Lot 661	Allotment Fill - Lot 663	Allotment Fill - Lot 665	Allotment Fill - Lot 666	Allotment Fill - Lot 664	Allotment Fill - Lot 662
Line / Offset	3m S	4m S	5m S	4m S	4m S	2m S
Offset	10m E	16m E	12m E	6m E	18m E	20m E
Layer / Reduced Level	Layer 3	Layer 3	Layer 3	Layer 4	Layer 4	Layer 4
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
Test Depth (mm)	175	175	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	17	17	18	12	14	14
Oversize (dry basis) %	17	16	18	11	13	14
Curing Hours	3.2	3.7	4.8	5.5	6.2	6.8
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.17	2.20	2.18	2.22	2.19	2.22
Field Moisture Content %	9.3	8.5	9.4	8.9	10.0	8.7
Field Dry Density t/m <sup>3</sup>	1.98	2.03	1.99	2.04	2.00	2.05
Maximum Dry Density t/m <sup>3</sup>	**	**	**	**	**	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	1.97	2.01	2.02	1.97	1.97	2.01
Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	10.0	9.0	9.0	9.5	11.5	9.0
Moisture Variation %	0.5	0.5	0.0	0.5	1.5	0.5
Moisture Ratio %	93.0	93.5	102.0	94.5	86.0	96.5
Density Ratio %	<b>100.5</b>	<b>101.0</b>	<b>98.5</b>	<b>103.5</b>	<b>101.5</b>	<b>101.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-8  
**Issue Number:** 1  
**Date Issued:** 06/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9374  
**Date Sampled:** 17/04/2023  
**Dates Tested:** 18/04/2023 - 20/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41333-32	41333-33	41333-34
Date Tested	17/04/2023	17/04/2023	17/04/2023
Time Tested	16:00	16:05	16:10
Test Request #/Location	Allotment Fill - Lot 661	Allotment Fill - Lot 663	Allotment Fill - Lot 665
Line / Offset	3m S	2m S	4m S
Offset	16m E	10m E	21m E
Layer / Reduced Level	Layer 5	Layer 5	Layer 5
Thickness of Layer (mm)	200	200	200
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
Test Depth (mm)	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	8	12	5
Oversize (dry basis) %	8	11	5
Curing Hours	2.2	2.3	2.2
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.21	2.22	2.19
Field Moisture Content %	7.5	8.8	7.6
Field Dry Density t/m <sup>3</sup>	2.06	2.04	2.04
Maximum Dry Density t/m <sup>3</sup>	**	**	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.03	2.03	2.03
Optimum Moisture Content (OMC) %	**	**	**
Adjusted Optimum Moisture Content (OMC) %	8.5	7.0	9.0
Moisture Variation %	1.5	-1.5	1.5
Moisture Ratio %	85.5	122.5	82.5
Density Ratio %	<b>101.5</b>	<b>100.5</b>	<b>100.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-9  
**Issue Number:** 1  
**Date Issued:** 06/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9389  
**Date Sampled:** 18/04/2023  
**Dates Tested:** 19/04/2023 - 21/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41333-35	41333-36	41333-37
Date Tested	18/04/2023	18/04/2023	18/04/2023
Time Tested	14:02	14:16	14:27
Test Request #/Location	Lot 662 - Refer To Plan	Lot 664 - Refer To Plan	Lot 666 - Refer To Plan
Layer / Reduced Level	Layer 6	Layer 6	Layer 6
Thickness of Layer (mm)	200	200	200
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
Test Depth (mm)	150	150	150
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	7	**	15
Oversize (dry basis) %	7	**	15
Curing Hours	2.0	2.1	2.4
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.16	2.16	2.14
Field Moisture Content %	7.6	10.6	9.0
Field Dry Density t/m <sup>3</sup>	2.01	1.95	1.97
Maximum Dry Density t/m <sup>3</sup>	**	2.02	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.03	**	2.06
Optimum Moisture Content (OMC) %	**	11.5	**
Adjusted Optimum Moisture Content (OMC) %	9.5	**	9.5
Moisture Variation %	2.0	1.0	0.5
Moisture Ratio %	78.0	90.5	96.5
Density Ratio %	<b>99.0</b>	<b>96.5</b>	<b>95.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-10  
**Issue Number:** 1  
**Date Issued:** 09/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9390  
**Date Sampled:** 19/04/2023  
**Dates Tested:** 19/04/2023 - 20/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41333-38	41333-39	
Date Tested	19/04/2023	19/04/2023	
Time Tested	08:02	08:16	
Test Request #/Location	Lot 660	Lot 623	
Line / Offset	6m S	10m S	
Offset	15m E	12m E	
Layer / Reduced Level	Subgrade	Subgrade	
Thickness of Layer (mm)	200	200	
Soil Description	Gravelly Sand	Gravelly Sand	
Test Depth (mm)	150	150	
Fraction Tested (mm)	19.0	19.0	
Oversize (wet basis) %	18	17	
Oversize (dry basis) %	17	17	
Curing Hours	2.0	2.0	
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	
Field Wet Density t/m <sup>3</sup>	2.25	2.24	
Field Moisture Content %	8.9	7.2	
Field Dry Density t/m <sup>3</sup>	2.06	2.09	
Maximum Dry Density t/m <sup>3</sup>	**	**	
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.02	2.04	
Optimum Moisture Content (OMC) %	**	**	
Adjusted Optimum Moisture Content (OMC) %	9.5	9.0	
Moisture Variation %	0.5	2.0	
Moisture Ratio %	94.5	80.0	
Density Ratio %	<b>102.5</b>	<b>103.0</b>	
Compaction Method	<b>Standard</b>	<b>Standard</b>	

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC



# Material Test Report

**Report Number:** AGT41333-11  
**Issue Number:** 1  
**Date Issued:** 09/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9391  
**Date Sampled:** 19/04/2023  
**Dates Tested:** 19/04/2023 - 20/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41333-40		
Date Tested	19/04/2023		
Time Tested	12:40		
Test Request #/Location	Lot 623		
Line / Offset	8m N		
Offset	18m E		
Layer / Reduced Level	Layer 1		
Thickness of Layer (mm)	200		
Soil Description	Gravelly Sand		
Test Depth (mm)	150		
Fraction Tested (mm)	19.0		
Oversize (wet basis) %	16		
Oversize (dry basis) %	15		
Curing Hours	3.6		
Method used to Determine Plasticity	Visual/tactile		
Field Wet Density t/m <sup>3</sup>	2.21		
Field Moisture Content %	8.4		
Field Dry Density t/m <sup>3</sup>	2.04		
Maximum Dry Density t/m <sup>3</sup>	**		
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.07		
Optimum Moisture Content (OMC) %	**		
Adjusted Optimum Moisture Content (OMC) %	6.5		
Moisture Variation %	-2.0		
Moisture Ratio %	128.5		
Density Ratio %	98.5		
Compaction Method	Standard		

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-13  
**Issue Number:** 1  
**Date Issued:** 09/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9400  
**Date Sampled:** 20/04/2023  
**Dates Tested:** 21/04/2023 - 21/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1						
Sample Number	41333-42	41333-43	41333-44	41333-45	41333-46	41333-47
Date Tested	20/04/2023	20/04/2023	20/04/2023	20/04/2023	20/04/2023	20/04/2023
Time Tested	08:45	08:50	08:55	09:30	09:35	09:40
Test Request #/Location	Allotment Fill - Lot 624	Allotment Fill - Lot 626	Allotment Fill - Lot 628	Allotment Fill - Lot 628	Allotment Fill - Lot 626	Allotment Fill - Lot 624
Line / Offset	10m S	6m S	14m S	21m S	16m S	14m S
Offset	3m E	4m E	8m E	7m E	4m E	2m E
Layer / Reduced Level	Subgrade	Subgrade	Subgrade	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand
Test Depth (mm)	175	175	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	17	17	18	17	18	19
Oversize (dry basis) %	16	16	18	18	18	18
Curing Hours	3.0	3.6	74.8	2.3	2.0	3.2
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.23	2.19	2.21	2.22	2.19	2.22
Field Moisture Content %	9.2	9.0	8.9	7.8	8.7	9.5
Field Dry Density t/m <sup>3</sup>	2.04	2.01	2.03	2.06	2.01	2.03
Maximum Dry Density t/m <sup>3</sup>	**	**	**	**	**	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.03	2.04	2.02	2.04	2.03	2.06
Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	7.5	7.0	8.5	10.0	9.0	10.0
Moisture Variation %	-1.5	-2.0	-0.5	2.0	0.0	0.0
Moisture Ratio %	123.0	132.5	106.5	80.0	97.5	98.0
Density Ratio %	<b>100.5</b>	<b>98.5</b>	<b>100.5</b>	<b>101.5</b>	<b>99.5</b>	<b>98.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-17  
**Issue Number:** 1  
**Date Issued:** 09/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9416  
**Date Sampled:** 21/04/2023  
**Dates Tested:** 24/04/2023 - 26/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

## Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Sample Number	41333-61	41333-62	41333-63	41333-64	41333-65	41333-66
Date Tested	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023
Time Tested	08:00	08:10	08:20	08:30	08:40	08:50
Test Request #/Location	Allotment Fill - Lot 662	Allotment Fill - Lot 625	Allotment Fill - Lot 627	Allotment Fill - Lot 629	Allotment Fill - Lot 630	Allotment Fill - Lot 629
Line / Offset	4m S	10m S	21m S	10m S	12m S	9m S
Offset	10m E	2m E	4m E	3m E	4m E	5m E
Layer / Reduced Level	Layer 2	Layer 2	Layer 2	Subgrade	Layer 1	Layer 2
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand
Test Depth (mm)	175	175	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	16	19	18	20	**	17
Oversize (dry basis) %	16	18	17	19	-1371	16
Curing Hours	29.7	25.8	47.2	47.8	61.4	62.4
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.21	2.21	2.19	2.22	2.21	2.21
Field Moisture Content %	8.4	9.8	9.2	9.2	8.4	9.6
Field Dry Density t/m <sup>3</sup>	2.04	2.01	2.01	2.03	2.04	2.02
Maximum Dry Density t/m <sup>3</sup>	**	**	**	**	2.03	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.05	2.06	2.08	2.09	**	2.06
Optimum Moisture Content (OMC) %	**	**	**	**	11.0	**
Adjusted Optimum Moisture Content (OMC) %	8.5	9.0	7.5	8.0	**	9.5
Moisture Variation %	0.0	-1.0	-2.0	-1.0	2.5	-0.5
Moisture Ratio %	97.5	110.5	124.0	113.5	76.0	103.0
Density Ratio %	<b>99.5</b>	<b>97.5</b>	<b>96.5</b>	<b>97.5</b>	<b>100.0</b>	<b>98.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

### Moisture Variation Note:

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-18  
**Issue Number:** 1  
**Date Issued:** 09/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9417  
**Date Sampled:** 21/04/2023  
**Dates Tested:** 24/04/2023 - 27/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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## Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Sample Number	41333-67		
Date Tested	21/04/2023		
Time Tested	10:00		
Test Request #/Location	Allotment Fill - Lot 659		
Line / Offset	4m S		
Offset	12m E		
Layer / Reduced Level	Layer 2		
Thickness of Layer (mm)	200		
Soil Description	Gravelly Sand		
Test Depth (mm)	175		
Fraction Tested (mm)	19.0		
Oversize (wet basis) %	18		
Oversize (dry basis) %	17		
Curing Hours	2.2		
Method used to Determine Plasticity	Visual/tactile		
Field Wet Density t/m <sup>3</sup>	2.19		
Field Moisture Content %	9.7		
Field Dry Density t/m <sup>3</sup>	2.00		
Maximum Dry Density t/m <sup>3</sup>	**		
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.07		
Optimum Moisture Content (OMC) %	**		
Adjusted Optimum Moisture Content (OMC) %	8.0		
Moisture Variation %	-1.5		
Moisture Ratio %	117.5		
Density Ratio %	96.5		
Compaction Method	Standard		

### Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-19  
**Issue Number:** 1  
**Date Issued:** 09/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9448  
**Date Sampled:** 24/04/2023  
**Dates Tested:** 27/04/2023 - 29/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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## Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Sample Number	41333-68	41333-69	41333-70	41333-71	41333-72	41333-73
Date Tested	24/04/2023	24/04/2023	24/04/2023	24/04/2023	24/04/2023	24/04/2023
Time Tested	08:55	09:06	09:18	10:01	10:11	10:20
Test Request #/Location	Allotment Fill - Lot 631	Allotment Fill - Lot 633	Allotment Fill - Lot 607	Allotment Fill - Lot 608	Allotment Fill - Lot 2003	Allotment Fill - Lot 632
Line / Offset	4m S	2m S	3m S	3m S	5m S	3m S
Offset	10m E	16m E	9m E	13m E	18m E	12m E
Layer / Reduced Level	Subgrade	Subgrade	Subgrade	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand
Test Depth (mm)	175	175	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	19	20	17	13	15	19
Oversize (dry basis) %	18	19	17	13	14	17
Curing Hours	3.8	4.5	5.0	5.5	6.3	4.2
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.21	2.22	2.23	2.22	2.23	2.26
Field Moisture Content %	9.5	9.5	5.5	5.5	8.4	9.5
Field Dry Density t/m <sup>3</sup>	2.02	2.02	2.11	2.10	2.06	2.07
Maximum Dry Density t/m <sup>3</sup>	**	**	**	**	**	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.02	1.98	2.15	2.14	2.03	2.02
Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	9.5	10.5	7.5	7.5	9.5	9.0
Moisture Variation %	0.0	1.0	2.0	2.0	1.0	-0.5
Moisture Ratio %	101.0	91.0	73.0	72.5	89.5	105.0
Density Ratio %	<b>100.0</b>	<b>102.0</b>	<b>98.0</b>	<b>98.5</b>	<b>101.5</b>	<b>102.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

### Moisture Variation Note:

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-20  
**Issue Number:** 1  
**Date Issued:** 10/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9449  
**Date Sampled:** 24/04/2023  
**Dates Tested:** 27/04/2023 - 29/04/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41333-74	41333-75	41333-76
Date Tested	24/04/2023	24/04/2023	24/04/2023
Time Tested	13:00	13:10	13:30
Test Request #/Location	Allotment Fill - Lot 612	Allotment Fill - Lot 609	Roadway - Plato Court
Line / Offset	16m S	10m S	2m S
Offset	3m E	4m E	28m E
Layer / Reduced Level	Layer 2	Layer 2	Layer 1
Thickness of Layer (mm)	200	200	200
Soil Description	Gravelly Sand	Gravelly Sand	Gravelly Sand
Test Depth (mm)	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	22	16	19
Oversize (dry basis) %	21	15	18
Curing Hours	2.1	2.6	3.2
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.16	2.18	2.18
Field Moisture Content %	5.8	8.9	7.6
Field Dry Density t/m <sup>3</sup>	2.04	2.00	2.02
Maximum Dry Density t/m <sup>3</sup>	**	**	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.15	2.00	2.11
Optimum Moisture Content (OMC) %	**	**	**
Adjusted Optimum Moisture Content (OMC) %	6.5	10.0	7.0
Moisture Variation %	1.0	1.0	-0.5
Moisture Ratio %	86.5	91.5	108.5
Density Ratio %	<b>95.0</b>	<b>100.0</b>	<b>95.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC



# Material Test Report

**Report Number:** AGT41333-21  
**Issue Number:** 1  
**Date Issued:** 10/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9450  
**Date Sampled:** 26/04/2023  
**Dates Tested:** 27/04/2023 - 01/05/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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## Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Sample Number	41333-77	41333-78	41333-79	41333-80	41333-81	41333-82
Date Tested	26/04/2023	26/04/2023	26/04/2023	26/04/2023	26/04/2023	26/04/2023
Time Tested	10:00	10:08	10:14	14:05	14:10	14:15
Test Request #/Location	Allotment Fill - Lot 607	Allotment Fill - Lot 633	Allotment Fill - Lot 631	Allotment Fill - Lot 630	Allotment Fill - Lot 628	Allotment Fill - Lot 626
Line / Offset	4m S	2m S	3m S	10m S	14m S	10m S
Offset	14m E	17m E	8m E	4m E	7m E	3m E
Layer / Reduced Level	Layer 2	Layer 2	Layer 2	Layer 3	Layer 3	Layer 3
Thickness of Layer (mm)	200	200	200	200	200	200
Soil Description	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand
Test Depth (mm)	175	175	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	11	18	17	18	12	15
Oversize (dry basis) %	11	17	17	17	11	15
Curing Hours	2.2	2.2	2.1	2.3	2.4	2.2
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.20	2.22	2.22	2.24	2.23	2.18
Field Moisture Content %	8.4	7.1	6.8	8.4	9.0	7.3
Field Dry Density t/m <sup>3</sup>	2.03	2.07	2.08	2.06	2.05	2.03
Maximum Dry Density t/m <sup>3</sup>	**	**	**	**	**	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.06	2.09	2.10	2.05	2.06	2.02
Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	9.0	8.0	6.5	7.0	7.5	7.5
Moisture Variation %	0.5	1.0	-0.5	-1.5	-1.5	0.5
Moisture Ratio %	94.5	88.5	104.0	122.5	122.0	96.5
Density Ratio %	<b>98.5</b>	<b>99.0</b>	<b>99.0</b>	<b>101.0</b>	<b>99.5</b>	<b>101.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

### Moisture Variation Note:

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** AGT41333-22  
**Issue Number:** 1  
**Date Issued:** 10/10/2023  
**Client:** NEO Infrastructure  
 25 Liston Rd, Lonsdale SA  
**Project Number:** AGT41333  
**Project Name:** Miravale Stage 7  
**Project Location:** Angle Vale  
**Work Request:** 9451  
**Date Sampled:** 27/04/2023  
**Dates Tested:** 27/04/2023 - 01/05/2023  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95% Standard AS1289 5.1.1  
**Site Selection:** Selected by Client  
**Location:** Angle Vale



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Approved Signatory: Loky Maynard  
 Laboratory Manager - Adelaide  
 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41333-83	41333-84	41333-85
Date Tested	27/04/2023	27/04/2023	27/04/2023
Time Tested	10:30	10:45	11:00
Test Request #/Location	Allotment Fill - Lot 608	Allotment Fill - Lot 2003	Allotment Fill - Lot 632
Line / Offset	3m S	2m S	2m S
Offset	14m E	16m E	10m E
Layer / Reduced Level	Layer 3	Layer 3	Layer 3
Thickness of Layer (mm)	200	200	200
Soil Description	Gravelly Sand	Gravelly Sand	Gravelly Sand
Test Depth (mm)	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	18	19	16
Oversize (dry basis) %	18	19	15
Curing Hours	4.5	4.5	4.8
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m <sup>3</sup>	2.20	2.19	2.19
Field Moisture Content %	5.9	5.8	7.7
Field Dry Density t/m <sup>3</sup>	2.08	2.07	2.03
Maximum Dry Density t/m <sup>3</sup>	**	**	**
Adjusted Maximum Dry Density t/m <sup>3</sup>	2.10	2.11	2.03
Optimum Moisture Content (OMC) %	**	**	**
Adjusted Optimum Moisture Content (OMC) %	7.0	6.5	8.5
Moisture Variation %	1.0	0.5	0.5
Moisture Ratio %	85.0	90.0	93.0
Density Ratio %	<b>99.0</b>	<b>98.0</b>	<b>100.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC