



Australian Geotechnical Testing

Level One Inspection and Testing

Project No: AGTE21644
Project: Rivers Edge Stage 4
Suburb: Angle Vale



Client: Neo Infrastructure

Date: 8/04/2022

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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1 Introduction

Australian Geotechnical Testing (AGT) has been engaged by Neo Infrastructure to provide Level 1 Geotechnical Supervision for the Rivers Edge Stage 4. 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 **1/12/2021 to 25/03/2022**.

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:

- **98% Standard Maximum Dry Density (Compaction)**

General fill material used for the construction was locally sourced and predominantly comprising of **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** however the specification required a minimum compaction result of **98%** density ratio Standard Compaction for the **cohesive soils** (AS 12895.7.1 & 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 2,500m² per layer, or 1 test per 500m³ throughout the placement of fill as per AS3798 Table 8.1.

The material was Site Derived **Sandy Clay Fill & Imported Gravelly Sandy Clay Fill**. 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 98% 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 98% 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.

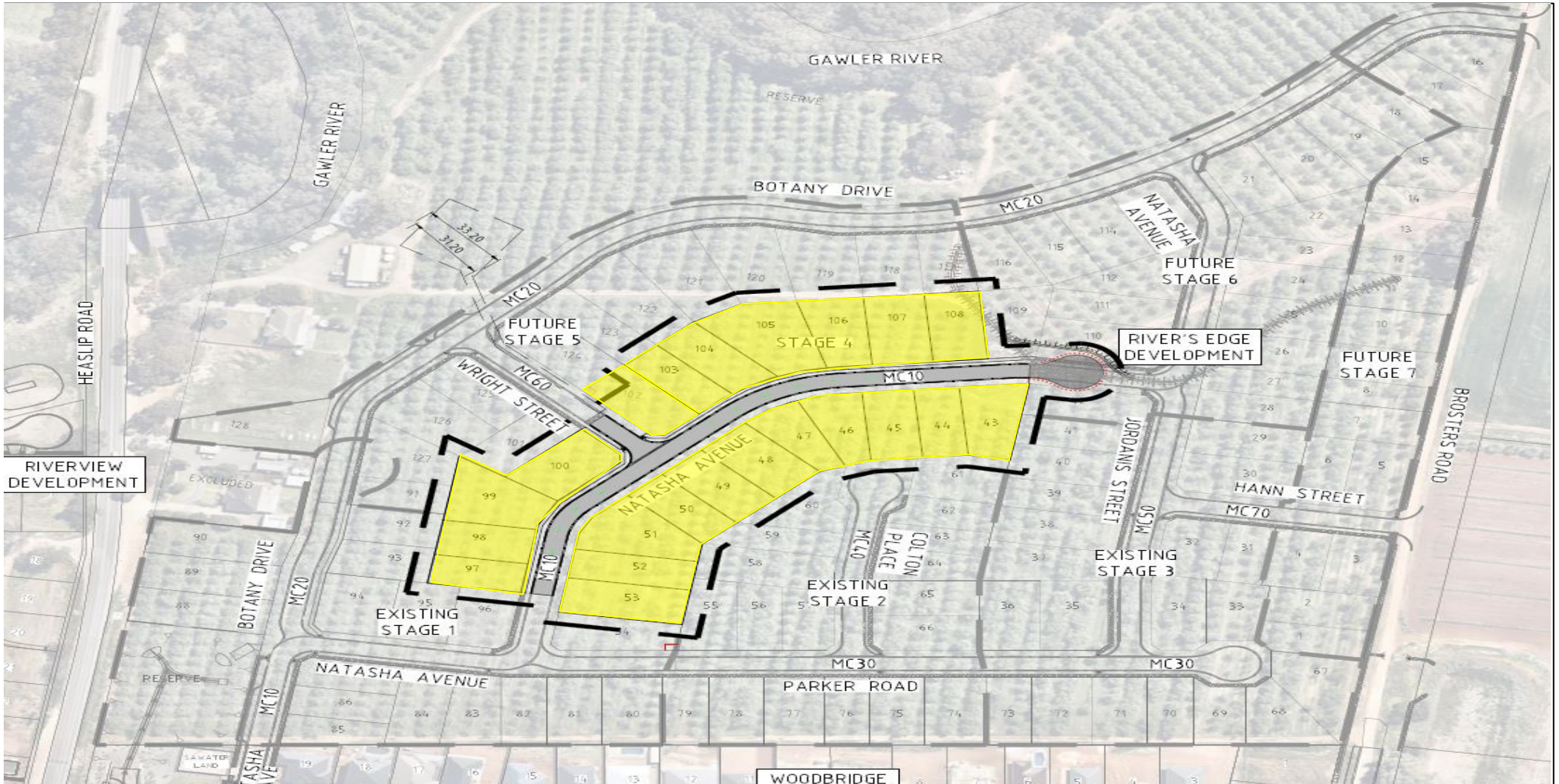


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Appendix A – Site Plan



Key

 Level 1 Fill Area



SITE PLAN - NOT TO SCALE



Report No

AGTE21644

Rivers Edge Stage 4

Angle Vale

Neo Infrastructure

Appendix B – Laboratory Testing

Project Summary Report



Report Date: 08/04/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Contact: Don Winter
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Project Location:
Specification: 98% 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)
**	41041-1	01/12/2021	Lot - 108	4m E	2m S	**	Subgrade	100.0	8.5	6.8	1.91
**	41041-2	01/12/2021	Lot - 107	10m E	6m S	**	Subgrade	98.5	8.0	5.6	1.92
**	41041-3	01/12/2021	Lot - 106	9m E	7m S	**	Subgrade	100.0	7.5	8.0	1.94
**	41041-4	01/12/2021	Lot - 105	6m E	4m S	**	Subgrade	99.5	8.0	3.3	1.96
**	41041-5	01/12/2021	Lot - 104	10m E	5m S	**	Subgrade	99.5	8.0	4.1	1.96
**	41041-6	01/12/2021	Lot - 103	12m E	6m S	**	Subgrade	99.0	8.5	4.1	1.94
**	41041-7	01/12/2021	Lot - 100	12m E	4m S	**	Subgrade	98.5	8.5	4.4	1.92
**	41041-8	01/12/2021	Lot - 99	10m E	5m S	**	Subgrade	99.0	9.5	12.1	1.90
**	41041-9	01/12/2021	Lot - 98	8m E	10m S	**	Subgrade	98.5	8.0	3.8	2.12
**	41041-10	01/12/2021	Lot - 97	10m E	5m S	**	Subgrade	98.5	8.5	3.7	1.95
**	41041-11	01/12/2021	Lot - 53	10m E	2m S	**	Subgrade	99.0	8.5	3.6	1.94
**	41041-12	01/12/2021	Lot - 52	4m E	7m S	**	Subgrade	98.5	8.0	3.9	1.96
**	41041-13	01/12/2021	Lot - 51	7m E	11m S	**	Subgrade	98.5	9.0	3.7	1.87
**	41041-14	01/12/2021	Lot - 50	10m E	5m S	**	Subgrade	98.5	8.0	6.5	1.90
**	41041-15	01/12/2021	Lot - 49	12m E	6m S	**	Subgrade	99.5	13.0	14.4	1.82
**	41041-16	01/12/2021	Lot - 48	9m E	4m S	**	Subgrade	98.0	9.0	12.6	1.80
**	41041-17	01/12/2021	Lot - 47	7m E	8m S	**	Subgrade	98.0	8.5	11.7	1.81
**	41041-18	01/12/2021	Lot - 46	6m E	6m S	**	Subgrade	98.5	9.0	8.0	1.80
**	41041-19	01/12/2021	Lot - 45	6m E	2m S	**	Subgrade	99.0	10.0	9.5	1.86
**	41041-20	01/12/2021	Lot - 44	5m E	5m S	**	Subgrade	98.0	9.0	6.8	1.88
**	41041-21	01/12/2021	Lot - 43	10m E	6m S	**	Subgrade	98.0	9.5	13.2	1.94
**	41041-24	08/12/2021	Sewer Main - Zone 1 - SMB1-1	6	CL	**	Layer 1	99.0	-0.5	18.8	2.02
**	41041-25	08/12/2021	Sewer Main - Zone 1 - SMB2-1	10	1m R	**	Layer 2	100.5	0.0	19.1	2.02
**	41041-26	08/12/2021	Sewer Main - Zone 1 - SMB3-1	25	CL	**	Layer 3	99.0	0.5	19.5	2.01
**	41041-27	08/12/2021	Sewer Main - Zone 2 - SMB1-2	16	1m L	**	Layer 1	99.5	0.5	18.5	2.03
**	41041-28	08/12/2021	Sewer Main - Zone 2 - SMB2-2	30	1m R	**	Layer 2	99.5	0.0	19.2	2.05
**	41041-29	08/12/2021	Sewer Main - Zone 2 - SMB3-2	20	CL	**	Layer 3	99.5	0.0	19.2	2.03
**	41041-30	08/12/2021	Sewer Main - Zone 3 - SMB1-3	6	1m R from CL	**	Layer 1	100.0	-0.5	19.2	2.05
**	41041-31	08/12/2021	Sewer Main - Zone 3 - SMB2-3	20	CL from CL	**	Layer 2	97.5	0.5	19.1	2.02
**	41041-32	08/12/2021	Sewer Main - Zone 3 - SMB3-3	13	1m L from CL	**	Layer 3	100.5	0.0	20.0	2.05
**	41041-33	17/12/2021	Sewer Main - Zone 4 - SMB1-4	8	CL	**	Layer 1	100.5	0.0	12.8	2.11
**	41041-34	17/12/2021	Sewer Main - Zone 4 - SMB2-4	20	CL	**	Layer 2	99.0	0.5	12.4	2.04
**	41041-35	17/12/2021	Sewer Main - Zone 4 - SMB3-4	15	CL	**	Layer 3	100.5	1.5	10.9	1.94
**	41041-36	17/12/2021	Sewer Main - Zone 5 - SMB1-5	30	CL	**	Layer 1	99.0	1.0	14.5	2.09
**	41041-37	17/12/2021	Sewer Main - Zone 5 - SMB2-5	5	CL	**	Layer 2	99.0	1.5	12.1	2.01
**	41041-38	17/12/2021	Sewer Main - Zone 5 - SMB3-5	19	CL	**	Layer 3	98.5	2.5	16.9	2.05
**	41041-39	17/12/2021	Sewer Connections - SC1 Lot 98	**	**	**	FSL	99.5	1.5	17.1	2.00
**	41041-40	17/12/2021	Sewer Connections - SC2 Lot 49	**	**	**	FSL	99.5	2.5	16.9	2.01
**	41041-41	17/12/2021	Sewer Connections - SC3 Lot 105	**	**	**	FSL	100.5	0.0	17.2	2.02
**	41041-42	17/12/2021	Sewer Connections - SC4 Lot 45	**	**	**	FSL	98.5	0.5	16.7	2.00
**	41041-43	17/12/2021	Sewer Connections - SC5 Lot 108	**	**	**	FSL	97.0	0.0	17.6	2.01
**	41041-44	17/12/2021	MHB1 - MH-391.25	**	**	**	Layer 1	98.5	4.5	14.4	1.96
**	41041-45	17/12/2021	MHB2 - MH-391.25	**	**	**	Layer 2	98.0	5.0	13.9	1.96
**	41041-46	22/12/2021	Road - Zone 1 - SG1	5	CL	**	Subgrade	98.5	2.0	16.0	1.97
**	41041-47	22/12/2021	Road - Zone 2 - SG2	15	1m R of CL	**	Subgrade	100.5	1.0	15.7	2.01

Lot #	Sample #	Date Sampled	Location	Line / Offset	Offset	Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	41041-48	22/12/2021	Road - Zone 3-SG3	10	1m L of CL	**	Subgrade	100.5	2.5	16.5	1.99
**	41041-49	22/12/2021	Road - Zone 4-SG4	20	CL	**	Subgrade	98.5	1.5	14.4	1.97
**	41041-50	22/12/2021	Road - Zone 5-SG5	21	1m R of CL	**	Subgrade	100.0	1.5	14.3	1.99
**	41041-53	22/12/2021	Stormwater - SWB2	5	CL	**	Bedding	98.0	6.5	1.6	2.07
**	41041-54	22/12/2021	Stormwater - SWB3	15	CL	**	Bedding	98.0	8.0	0.5	2.05
**	41041-55	22/12/2021	Stormwater - SWB4	20	CL	**	Bedding	98.0	6.5	1.8	2.07
**	41041-56	22/12/2021	Stormwater - SWSS2	16	CL	**	Side Support	98.0	7.0	1.3	2.06
**	41041-57	22/12/2021	Stormwater - SWSS3	9	CL	**	Side Support	98.0	8.0	0.4	2.05
**	41041-58	22/12/2021	Stormwater - SWSS4	20	CL	**	Side Support	98.0	8.0	0.3	2.04
**	41041-59	22/12/2021	Stormwater - SW02	22	CL	**	Overlay	98.0	6.5	1.6	2.07
**	41041-60	22/12/2021	Stormwater - SW03	6	CL	**	Overlay	98.5	6.5	1.7	2.08
**	41041-61	22/12/2021	Stormwater - SW04	12	CL	**	Overlay	99.0	5.0	3.1	2.12
**	41041-62	13/01/2022	Lot 43	20m N	11m W	**	Layer 1	98.0	0.5	17.9	2.02
**	41041-63	13/01/2022	Stormwater - Zone 1	12m	CL	**	Bedding	100.0	1.5	4.7	2.14
**	41041-64	13/01/2022	Stormwater - Zone 1	18m	CL	**	Side Support	101.5	2.0	4.4	2.20
**	41041-65	13/01/2022	Stormwater - Zone 1	8m	CL	**	Overlay	101.0	1.0	5.9	2.22
**	41041-66	14/01/2022	Lot 44	3m W	20m N	**	Layer 1	100.5	2.5	7.5	2.14
**	41041-67	14/01/2022	Lot 45	5m W	22m N	**	Layer 1	98.5	-2.0	10.5	2.21
**	41041-68	14/01/2022	Lot 46	4m W	16m N	**	Layer 1	98.5	-1.0	10.5	2.15
**	41041-69	14/01/2022	Lot 47	3m W	12m N	**	Layer 1	98.5	1.0	8.2	2.16
**	41041-70	14/01/2022	Lot 48	3m W	24m N	**	Layer 1	100.0	0.5	8.4	2.14
**	41041-71	14/01/2022	Lot 49	4m W	18m N	**	Layer 1	99.0	1.0	8.0	2.14
**	41041-72	14/01/2022	Lot 50	12m N	5m	**	Layer 1	98.0	2.5	7.7	2.09
**	41041-73	14/01/2022	Lot 51	7m N	7m	**	Layer 1	98.5	-1.0	13.0	2.14
**	41041-74	14/01/2022	Lot 52	3m N	3m	**	Layer 1	98.5	-2.0	12.6	2.19
**	41041-75	14/01/2022	Lot 53	6m N	6m	**	Layer 1	99.5	-2.5	11.7	2.22
**	41041-76	17/01/2022	Water Main Back Fill Zone 1	22m	CL	**	Overlay	100.5	4.0	4.7	1.90
**	41041-77	17/01/2022	Water Main Back Fill Zone 2	26m	CL	**	Overlay	100.0	3.5	4.6	1.90
**	41041-78	17/01/2022	Water Main Back Fill Zone 3	11m	CL	**	Overlay	100.0	5.0	4.0	1.91
**	41041-79	17/01/2022	Lot 97	8m N	11m W	**	Layer 1	99.0	2.0	12.0	2.00
**	41041-80	17/01/2022	Lot 98	6m N	16m W	**	Layer 1	101.5	3.0	11.3	2.03
**	41041-81	17/01/2022	Lot 99	4m N	10m W	**	Layer 1	100.0	2.5	12.0	2.02
**	41041-82	17/01/2022	Lot 105	15m N	7m W	**	Layer 1	99.0	1.0	9.4	2.15
**	41041-83	17/01/2022	Lot 106	14m N	7m W	**	Layer 1	98.0	0.5	8.6	2.15
**	41041-84	17/01/2022	Lot 107	10m N	8m W	**	Layer 1	99.0	1.0	8.5	2.17
**	41041-85	17/01/2022	Lot 108	13m N	6m W	**	Layer 1	98.0	1.0	8.0	2.12
**	41041-86	20/01/2022	Watermain Backfill - Zone 4	33	CL	**	Overlay	100.0	2.0	8.9	1.99
**	41041-87	20/01/2022	Watermain Backfill - Zone 5	15	CL	**	Overlay	100.5	5.0	10.4	2.10
**	41041-88	20/01/2022	Watermain Connection	Opposite Lot - 52	CL	**	FSL	100.5	0.0	7.3	2.00
**	41041-89	20/01/2022	Watermain Connection	Opposite Lot - 100	CL	**	FSL	100.0	0.0	7.1	2.02
**	41041-90	20/01/2022	Watermain Connection	Opposite Lot - 47	CL	**	FSL	101.0	2.0	5.3	2.00
**	41041-91	20/01/2022	Watermain Connection	Opposite Lot - 106	CL	**	FSL	100.0	0.0	8.3	2.03
**	41041-92	20/01/2022	Watermain Connection	Opposite Lot - 44	CL	**	FSL	100.0	0.0	9.9	2.02
**	41041-93	20/01/2022	Stormwater Backfill - Zone 1	12	CL	**	FSL	98.5	1.0	15.0	1.96
**	41041-94	20/01/2022	Stormwater Backfill - Zone 2	20	CL	**	FSL	98.0	3.5	13.2	1.97
**	41041-95	20/01/2022	Stormwater Backfill - Zone 3	28	CL	**	FSL	102.0	8.5	6.9	2.01
**	41041-96	20/01/2022	Stormwater Backfill - Zone 4	5	CL	**	FSL	101.0	10.0	5.6	1.98
**	41041-97	21/01/2022	CST Crossing - CSX1	4	CL	**	FSL	102.0	4.5	11.8	1.99
**	41041-98	21/01/2022	CST Crossing - CSX2	6	CL	**	FSL	102.0	5.0	11.2	1.98
**	41041-99	21/01/2022	CST Crossing - CSX3	5	CL	**	FSL	98.0	3.5	12.4	2.00
**	41041-100	21/01/2022	CST Crossing - CSX4	2	CL	**	FSL	99.5	5.5	12.0	1.95
**	41041-101	21/01/2022	CST Crossing - CSX5	7	CL	**	FSL	99.0	6.0	12.4	1.98
**	41041-102	21/01/2022	CST Crossing - CSX6	4	CL	**	FSL	99.0	4.5	14.3	1.99

Lot #	Sample #	Date Sampled	Location	Line / Offset	Offset	Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	41041-103	21/01/2022	CST Crossing - CSX7	3	CL	**	FSL	99.0	3.5	10.4	1.91
**	41041-104	03/02/2022	Lot 100	11m E	21m N	**	Layer 1	98.5	-1.0	11.3	2.21
**	41041-105	03/02/2022	Lot 101	12m E	8m N	**	Layer 1	98.0	-1.0	11.8	2.23
**	41041-106	10/02/2022	Lot - 108	12m N	5m W	**	FSL	98.5	-3.5	12.4	2.22
**	41041-107	10/02/2022	Lot - 107	16m N	4m W	**	FSL	98.5	-2.0	10.8	2.24
**	41041-108	10/02/2022	Lot - 106	10m N	6m W	**	FSL	98.0	-6.0	12.3	2.23
**	41041-109	10/02/2022	Lot - 105	18m N	5m W	**	FSL	101.0	1.0	11.1	2.15
**	41041-110	10/02/2022	Lot - 43	13m N	4m W	**	FSL	99.5	-2.5	13.7	2.19
**	41041-111	10/02/2022	Lot - 44	10m N	6m W	**	FSL	98.5	-2.5	12.4	2.20
**	41041-112	11/02/2022	Natasha Avenue - Zone 1	14	1m L from CL	**	Subbase	98.0	0.0	5.1	2.43
**	41041-113	11/02/2022	Natasha Avenue - Zone 2	11	1m R from CL	**	Subbase	98.5	0.0	5.1	2.46
**	41041-114	11/02/2022	Natasha Avenue - Zone 4	24	CL	**	Subbase	98.5	0.0	4.9	2.45
**	41041-115	11/02/2022	Natasha Avenue - Zone 5	33	1m L from CL	**	Subbase	99.5	0.5	5.4	2.45
**	41041-116	11/02/2022	Wright Street - Zone 3	7	CL	**	Subbase	98.0	-1.0	5.8	2.46
**	41041-117	11/02/2022	Lot - 45	18m N	4m W	**	FSL	99.0	-1.5	10.7	2.17
**	41041-118	11/02/2022	Lot - 46	12m N	3m W	**	FSL	98.0	-2.5	10.2	2.11
**	41041-119	11/02/2022	Lot - 47	6m N	12m W	**	FSL	98.0	-1.0	8.7	2.15
**	41041-120	11/02/2022	Lot - 48	7m N	13m W	**	FSL	99.0	-1.5	9.6	2.24
**	41041-121	11/02/2022	Lot - 49	6m N	15m W	**	FSL	98.5	-0.5	9.6	2.22
**	41041-122	11/02/2022	Lot - 50	4m N	14m W	**	FSL	98.5	-2.0	8.8	2.22
**	41041-123	11/02/2022	Lot - 51	8m N	15m W	**	FSL	98.5	4.0	5.2	2.16
**	41041-124	11/02/2022	Lot - 52	6m N	12m W	**	FSL	98.5	2.5	5.4	2.17
**	41041-125	11/02/2022	Lot - 53	5m N	13m W	**	FSL	**	**	7.8	2.15
**	41041-126	11/02/2022	Lot - 102	8m N	7m E	**	Layer 1	98.5	-2.5	11.3	2.16
**	41041-127	11/02/2022	Stormwater Crossing - SWX2	4	CL	**	Top Of Sand	101.0	2.5	5.1	2.26
**	41041-128	14/02/2022	Stormwater Road Crossing - SWX1	6	1m R from CL	**	Top Of Trench	100.0	1.5	4.0	2.38
**	41041-129	14/02/2022	Stormwater Road Crossing - SWX3	4	1m L from CL	**	Top Of Trench	99.5	1.5	4.3	2.37
**	41041-130	15/02/2022	Lot - 103	4m N	12m W	**	Layer 1	99.0	0.5	10.8	2.13
**	41041-131	15/02/2022	Lot - 104	6m N	14m W	**	Layer 1	99.0	0.5	10.1	2.13
**	41041-132	15/02/2022	Soft Spot 1 - Lot 102	7m N	16m W	**	Layer 2	99.0	6.0	7.0	2.14
**	41041-133	15/02/2022	Lot - 102	4m N	18m W	**	Layer 1	98.5	1.0	9.4	2.12
**	41041-134	16/02/2022	Lot - 102	6m N	15m W	**	Layer 2	101.5	-1.0	14.4	2.21
**	41041-135	16/02/2022	Lot - 102	4m N	16m W	**	FSL	101.0	0.5	10.9	2.24
**	41041-136	03/03/2022	Lot - 99	14m N	5m E	**	Layer 1	98.5	-0.5	14.8	2.04
**	41041-137	03/03/2022	Lot - 99	10m N	7m E	**	Layer 2	100.0	0.0	15.0	2.10
**	41041-138	08/03/2022	Common Service Trench Backfill - Zone 1	18	CL	**	Top Of Tench	98.0	-2.0	8.5	1.98
**	41041-139	08/03/2022	Common Service Trench Backfill - Zone 2	32	CL	**	Top Of Tench	98.0	-2.0	7.7	2.03
**	41041-140	08/03/2022	Common Service Trench Backfill - Zone 3	11	CL	**	Top Of Tench	99.0	0.0	6.0	1.88
**	41041-141	08/03/2022	Common Service Trench Backfill - Zone 4	16	CL	**	Top Of Tench	99.0	0.0	6.3	1.88
**	41041-142	08/03/2022	Common Service Trench Backfill - Zone 5	41	CL	**	Top Of Tench	98.5	0.5	6.7	1.88
**	41041-143	17/03/2022	Roadway - Zone 1	10	CL	**	Base Course	102.0	1.5	4.4	2.47
**	41041-144	17/03/2022	Roadway - Zone 2	5	CL	**	Base Course	101.5	1.0	4.6	2.46
**	41041-145	17/03/2022	Roadway - Zone 3	20	CL	**	Base Course	98.0	0.5	5.2	2.39
**	41041-146	17/03/2022	Roadway - Zone 4	31	CL	**	Base Course	99.5	0.5	5.1	2.42
**	41041-147	17/03/2022	Roadway - Zone 5	14	CL	**	Base Course	98.0	1.0	4.6	2.38
**	41041-148	25/03/2022	Lot 97	3m N	6m E	**	FSL	99.5	-0.5	11.6	2.21
**	41041-149	25/03/2022	Lot 98	8m N	16m E	**	FSL	102.5	0.0	4.2	2.28
**	41041-150	25/03/2022	Lot 99	12m N	8m E	**	FSL	98.5	0.0	8.7	2.23
**	41041-151	25/03/2022	Lot 100	3m N	4m E	**	FSL	98.0	1.0	9.2	2.19
**	41041-152	25/03/2022	Lot 102	5m N	15m E	**	FSL	98.0	0.0	7.4	2.22

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT41041-1
Issue Number: 1
Date Issued: 16/12/2021
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5359
Date Sampled: 01/12/2021
Dates Tested: 01/12/2021 - 03/12/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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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	41041-1	41041-2	41041-3	41041-4	41041-5	41041-6
Date Tested	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021
Time Tested	09:00	09:05	09:10	09:15	09:20	09:25
Test Request #/Location	Lot - 108	Lot - 107	Lot - 106	Lot - 105	Lot - 104	Lot - 103
Line / Offset	4m E	10m E	9m E	6m E	10m E	12m E
Offset	2m S	6m S	7m S	4m S	5m S	6m S
Layer / Reduced Level	Subgrade	Subgrade	Subgrade	Subgrade	Subgrade	Subgrade
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)	150	150	150	150	150	150
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**	**	**	**
Oversize (dry basis) %	**	**	**	**	**	**
Curing Hours	48.3	48.3	48.1	48.2	48.0	48.0
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	1.91	1.92	1.94	1.96	1.96	1.94
Field Moisture Content %	6.8	5.6	8.0	3.3	4.1	4.1
Field Dry Density t/m ³	1.79	1.82	1.79	1.89	1.88	1.87
Maximum Dry Density t/m ³	1.79	1.84	1.79	1.91	1.89	1.89
Adjusted Maximum Dry Density t/m ³	**	**	**	**	**	**
Optimum Moisture Content (OMC) %	15.0	13.5	15.5	11.5	12.0	12.5
Adjusted Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Moisture Variation %	8.5	8.0	7.5	8.0	8.0	8.5
Moisture Ratio %	45.0	41.5	51.0	29.0	33.0	32.5
Density Ratio %	100.0	98.5	100.0	99.5	99.5	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT41041-2
Issue Number: 1
Date Issued: 20/12/2021
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5360
Date Sampled: 01/12/2021
Dates Tested: 01/12/2021 - 06/12/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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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	41041-7	41041-8	41041-9	41041-10	41041-11	41041-12
Date Tested	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021
Time Tested	09:30	09:35	09:40	09:45	09:50	09:55
Test Request #/Location	Lot - 100	Lot - 99	Lot - 98	Lot - 97	Lot - 53	Lot - 52
Line / Offset	12m E	10m E	8m E	10m E	10m E	4m E
Offset	4m S	5m S	10m S	5m S	2m S	7m S
Layer / Reduced Level	Subgrade	Subgrade	Subgrade	Subgrade	Subgrade	Subgrade
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)	150	150	150	150	150	150
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**	**	**	**
Oversize (dry basis) %	**	**	**	**	**	**
Curing Hours	96.0	96.0	96.0	96.0	96.0	96.0
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	1.92	1.90	2.12	1.95	1.94	1.96
Field Moisture Content %	4.4	12.1	3.8	3.7	3.6	3.9
Field Dry Density t/m ³	1.84	1.70	2.04	1.88	1.87	1.88
Maximum Dry Density t/m ³	1.87	1.71	2.08	1.90	1.89	1.91
Adjusted Maximum Dry Density t/m ³	**	**	**	**	**	**
Optimum Moisture Content (OMC) %	13.0	22.0	12.0	12.0	12.0	12.0
Adjusted Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Moisture Variation %	8.5	9.5	8.0	8.5	8.5	8.0
Moisture Ratio %	34.0	55.5	32.5	31.0	30.5	33.0
Density Ratio %	98.5	99.0	98.5	98.5	99.0	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-3
Issue Number: 1
Date Issued: 20/12/2021
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5361
Date Sampled: 01/12/2021
Dates Tested: 01/12/2021 - 06/12/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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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	41041-13	41041-14	41041-15	41041-16	41041-17	41041-18
Date Tested	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021	01/12/2021
Time Tested	10:00	10:05	10:10	10:15	10:20	10:25
Test Request #/Location	Lot - 51	Lot - 50	Lot - 49	Lot - 48	Lot - 47	Lot - 46
Line / Offset	7m E	10m E	12m E	9m E	7m E	6m E
Offset	11m S	5m S	6m S	4m S	8m S	6m S
Layer / Reduced Level	Subgrade	Subgrade	Subgrade	Subgrade	Subgrade	Subgrade
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)	150	150	150	150	150	150
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**	**	**	**
Oversize (dry basis) %	**	**	**	**	**	**
Curing Hours	48.3	48.5	49.2	115.4	115.1	115.2
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	1.87	1.90	1.82	1.80	1.81	1.80
Field Moisture Content %	3.7	6.5	14.4	12.6	11.7	8.0
Field Dry Density t/m ³	1.80	1.79	1.59	1.60	1.62	1.66
Maximum Dry Density t/m ³	1.83	1.81	1.59	1.63	1.65	1.69
Adjusted Maximum Dry Density t/m ³	**	**	**	**	**	**
Optimum Moisture Content (OMC) %	12.5	15.0	27.0	21.5	20.5	17.0
Adjusted Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Moisture Variation %	9.0	8.0	13.0	9.0	8.5	9.0
Moisture Ratio %	29.5	44.0	53.0	58.0	57.5	47.0
Density Ratio %	98.5	98.5	99.5	98.0	98.0	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-4
Issue Number: 1
Date Issued: 20/12/2021
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5362
Date Sampled: 01/12/2021
Dates Tested: 01/12/2021 - 03/12/2021
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41041-19	41041-20	41041-21
Date Tested	01/12/2021	01/12/2021	01/12/2021
Time Tested	10:30	10:35	10:40
Test Request #/Location	Lot - 45	Lot - 44	Lot - 43
Line / Offset	6m E	5m E	10m E
Offset	2m S	5m S	6m S
Layer / Reduced Level	Subgrade	Subgrade	Subgrade
Thickness of Layer (mm)	200	200	200
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay
Test Depth (mm)	150	150	150
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	24.0	48.0	48.7
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	1.86	1.88	1.94
Field Moisture Content %	9.5	6.8	13.2
Field Dry Density t/m ³	1.69	1.76	1.71
Maximum Dry Density t/m ³	1.71	1.80	1.74
Adjusted Maximum Dry Density t/m ³	**	**	**
Optimum Moisture Content (OMC) %	19.5	16.0	22.5
Adjusted Optimum Moisture Content (OMC) %	**	**	**
Moisture Variation %	10.0	9.0	9.5
Moisture Ratio %	49.0	43.0	58.5
Density Ratio %	99.0	98.0	98.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-20
Issue Number: 1
Date Issued: 20/01/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5628
Date Sampled: 14/01/2022
Dates Tested: 17/01/2022 - 17/01/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1						
Sample Number	41041-66	41041-67	41041-68	41041-69	41041-70	41041-71
Date Tested	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022	14/01/2022
Time Tested	12:41	12:48	12:56	13:04	13:10	13:16
Test Request #/Location	Lot 44	Lot 45	Lot 46	Lot 47	Lot 48	Lot 49
Easting	3m W	5m W	4m W	3m W	3m W	4m W
Northing	20m N	22m N	16m N	12m N	24m N	18m N
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	Gravelly Sandy	Gravelly Sandy	Gravelly Sandy	Gravelly Sandy	Gravelly Sandy	Gravelly Sandy
Test Depth (mm)	100	100	100	100	100	100
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	13	16	18	17	18	19
Oversize (dry basis) %	13	17	16	18	18	19
Curing Hours	48.5	48.2	49.1	49.9	51.8	52.3
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	2.14	2.21	2.15	2.16	2.14	2.14
Field Moisture Content %	7.5	10.5	10.5	8.2	8.4	8.0
Field Dry Density t/m ³	1.99	2.00	1.95	1.99	1.98	1.98
Maximum Dry Density t/m ³	**	**	**	**	**	**
Adjusted Maximum Dry Density t/m ³	1.98	2.04	1.98	2.02	1.98	2.00
Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	10.0	8.5	9.5	9.5	9.0	9.0
Moisture Variation %	2.5	-2.0	-1.0	1.0	0.5	1.0
Moisture Ratio %	76.0	122.0	111.5	87.5	93.5	88.5
Density Ratio %	100.5	98.5	98.5	98.5	100.0	99.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-21
Issue Number: 1
Date Issued: 28/01/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5629
Date Sampled: 14/01/2022
Dates Tested: 17/01/2022 - 19/01/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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 NATA Accredited Laboratory Number: 20247

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1				
Sample Number	41041-72	41041-73	41041-74	41041-75
Date Tested	14/01/2022	14/01/2022	14/01/2022	14/01/2022
Time Tested	15:28	15:36	15:40	15:43
Test Request #/Location	Lot 50	Lot 51	Lot 52	Lot 53
Easting	12m N	7m N	3m N	6m N
Northing	5m	7m	3m	6m
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	150	150	150	150
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
Test Depth (mm)	100	100	100	100
Fraction Tested (mm)	19.0	19.0	19.0	19.0
Oversize (wet basis) %	19	18	22	20
Oversize (dry basis) %	20	18	22	20
Curing Hours	24.5	24.5	24.5	24.7
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	2.09	2.14	2.19	2.22
Field Moisture Content %	7.7	13.0	12.6	11.7
Field Dry Density t/m ³	1.94	1.90	1.95	1.99
Maximum Dry Density t/m ³	**	**	**	**
Adjusted Maximum Dry Density t/m ³	1.98	1.93	1.98	2.00
Optimum Moisture Content (OMC) %	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	10.0	12.0	10.5	9.5
Moisture Variation %	2.5	-1.0	-2.0	-2.5
Moisture Ratio %	77.0	108.0	119.0	124.5
Density Ratio %	98.0	98.5	98.5	99.5
Compaction Method	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-23
Issue Number: 1
Date Issued: 31/01/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5633
Date Sampled: 17/01/2022
Dates Tested: 17/01/2022 - 18/01/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41041-79	41041-80	41041-81
Date Tested	17/01/2022	17/01/2022	17/01/2022
Time Tested	09:36	09:40	09:46
Test Request #/Location	Lot 97	Lot 98	Lot 99
Line / Offset	8m N	6m N	4m N
Offset	11m W	16m W	10m W
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	150	150	150
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay
Test Depth (mm)	100	100	100
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	24.0	24.0	24.0
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	2.00	2.03	2.02
Field Moisture Content %	12.0	11.3	12.0
Field Dry Density t/m ³	1.79	1.83	1.80
Maximum Dry Density t/m ³	1.80	1.80	1.80
Adjusted Maximum Dry Density t/m ³	**	**	**
Optimum Moisture Content (OMC) %	14.0	14.0	14.5
Adjusted Optimum Moisture Content (OMC) %	**	**	**
Moisture Variation %	2.0	3.0	2.5
Moisture Ratio %	85.5	80.0	82.5
Density Ratio %	99.0	101.5	100.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-24
Issue Number: 1
Date Issued: 31/01/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5634
Date Sampled: 17/01/2022
Dates Tested: 17/01/2022 - 19/01/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

	41041-82	41041-83	41041-84	41041-85
Sample Number	41041-82	41041-83	41041-84	41041-85
Date Tested	17/01/2022	17/01/2022	17/01/2022	17/01/2022
Time Tested	09:54	10:00	10:06	10:14
Test Request #/Location	Lot 105	Lot 106	Lot 107	Lot 108
Line / Offset	15m N	14m N	10m N	13m N
Offset	7m W	7m W	8m W	6m W
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	150	150	150	150
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
Test Depth (mm)	100	100	100	100
Fraction Tested (mm)	19.0	19.0	19.0	19.0
Oversize (wet basis) %	17	30	22	22
Oversize (dry basis) %	18	30	22	21
Curing Hours	2.0	2.0	2.0	2.0
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	2.15	2.15	2.17	2.12
Field Moisture Content %	9.4	8.6	8.5	8.0
Field Dry Density t/m ³	1.97	1.98	2.00	1.97
Maximum Dry Density t/m ³	**	**	**	**
Adjusted Maximum Dry Density t/m ³	1.99	2.03	2.02	2.01
Optimum Moisture Content (OMC) %	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	10.5	9.0	9.5	9.0
Moisture Variation %	1.0	0.5	1.0	1.0
Moisture Ratio %	88.5	96.5	87.0	86.5
Density Ratio %	99.0	98.0	99.0	98.0
Compaction Method	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: AGT41041-30
Issue Number: 1
Date Issued: 10/02/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5755
Date Sampled: 03/02/2022
Dates Tested: 03/02/2022 - 04/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41041-104	41041-105	
Date Tested	03/02/2022	03/02/2022	
Time Tested	09:15	09:27	
Test Request #/Location	Lot 100	Lot 101	
Easting	11m E	12m E	
Northing	21m N	8m N	
Layer / Reduced Level	Layer 1	Layer 1	
Thickness of Layer (mm)	200	200	
Soil Description	Gravelly Sandy	Gravelly Sandy	
Test Depth (mm)	150	150	
Fraction Tested (mm)	19.0	19.0	
Oversize (wet basis) %	16	15	
Oversize (dry basis) %	17	16	
Curing Hours	2.2	2.8	
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	
Field Wet Density t/m ³	2.21	2.23	
Field Moisture Content %	11.3	11.8	
Field Dry Density t/m ³	1.99	2.00	
Maximum Dry Density t/m ³	**	**	
Adjusted Maximum Dry Density t/m ³	2.02	2.04	
Optimum Moisture Content (OMC) %	**	**	
Adjusted Optimum Moisture Content (OMC) %	10.0	10.5	
Moisture Variation %	-1.0	-1.0	
Moisture Ratio %	111.5	109.5	
Density Ratio %	98.5	98.0	
Compaction Method	Standard	Standard	

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-31
Issue Number: 1
Date Issued: 22/02/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5782
Date Sampled: 10/02/2022
Dates Tested: 10/02/2022 - 11/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1						
Sample Number	41041-106	41041-107	41041-108	41041-109	41041-110	41041-111
Date Tested	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Time Tested	04:36	04:34	04:26	04:34	03:56	04:17
Test Request #/Location	Lot - 108	Lot - 107	Lot - 106	Lot - 105	Lot - 43	Lot - 44
Line / Offset	12m N	16m N	10m N	18m N	13m N	10m N
Offset	5m W	4m W	6m W	5m W	4m W	6m W
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	-75mm Gravelly Sand	-75mm Gravelly Sand	-75mm Gravelly Sand	-75mm Gravelly Sand	-75mm Gravelly Sand	-75mm Gravelly Sand
Test Depth (mm)	100	100	100	100	100	100
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	20	20	20	**	20	20
Oversize (dry basis) %	21	21	20	**	21	21
Curing Hours	2.5	2.7	2.8	3.0	3.0	5.8
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	2.22	2.24	2.23	2.15	2.19	2.20
Field Moisture Content %	12.4	10.8	12.3	11.1	13.7	12.4
Field Dry Density t/m ³	1.98	2.03	1.98	1.94	1.93	1.96
Maximum Dry Density t/m ³	**	**	**	1.92	**	**
Adjusted Maximum Dry Density t/m ³	2.01	2.06	2.03	**	1.94	1.99
Optimum Moisture Content (OMC) %	**	**	**	12.0	**	**
Adjusted Optimum Moisture Content (OMC) %	9.0	9.0	6.5	**	11.5	10.0
Moisture Variation %	-3.5	-2.0	-6.0	1.0	-2.5	-2.5
Moisture Ratio %	140.0	119.5	190.5	92.5	120.0	125.0
Density Ratio %	98.5	98.5	98.0	101.0	99.5	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-33
Issue Number: 1
Date Issued: 22/02/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5799
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 14/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1						
Sample Number	41041-117	41041-118	41041-119	41041-120	41041-121	41041-122
Date Tested	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022
Time Tested	11:00	11:06	11:12	11:16	11:20	11:26
Test Request #/Location	Lot - 45	Lot - 46	Lot - 47	Lot - 48	Lot - 49	Lot - 50
Line / Offset	18m N	12m N	6m N	7m N	6m N	4m N
Offset	4m W	3m W	12m W	13m W	15m W	14m W
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	-75mm Gravelly Sand	-75mm Gravelly Sand	-75mm Gravelly Sand	-75mm Gravelly Sand	-75mm Gravelly Sand	-75mm Gravelly Sand
Test Depth (mm)	150	100	100	100	100	100
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	17	19	17	16	16	18
Oversize (dry basis) %	17	18	18	17	16	18
Curing Hours	2.5	3.1	3.4	4.2	4.7	5.2
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	2.17	2.11	2.15	2.24	2.22	2.22
Field Moisture Content %	10.7	10.2	8.7	9.6	9.6	8.8
Field Dry Density t/m ³	1.96	1.92	1.98	2.04	2.02	2.04
Maximum Dry Density t/m ³	**	**	**	**	**	**
Adjusted Maximum Dry Density t/m ³	1.98	1.96	2.02	2.07	2.05	2.07
Optimum Moisture Content (OMC) %	**	**	**	**	**	**
Adjusted Optimum Moisture Content (OMC) %	9.5	7.5	8.0	8.5	9.0	7.0
Moisture Variation %	-1.5	-2.5	-1.0	-1.5	-0.5	-2.0
Moisture Ratio %	115.5	134.0	110.0	115.5	108.0	129.5
Density Ratio %	99.0	98.0	98.0	99.0	98.5	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-34
Issue Number: 1
Date Issued: 22/02/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5800
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 16/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41041-123	41041-124	41041-125
Date Tested	11/02/2022	11/02/2022	11/02/2022
Time Tested	11:30	11:36	11:42
Test Request #/Location	Lot - 51	Lot - 52	Lot - 53
Line / Offset	8m N	6m N	5m N
Offset	15m W	12m W	13m W
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	-75mm Gravelly Sand	-75mm Gravelly Sand	-75mm Gravelly Sand
Test Depth (mm)	100	100	100
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	20	21	**
Oversize (dry basis) %	22	22	-4080
Curing Hours	3.0	3.2	3.3
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	2.16	2.17	2.15
Field Moisture Content %	5.2	5.4	7.8
Field Dry Density t/m ³	2.05	2.06	1.99
Maximum Dry Density t/m ³	**	**	1.98
Adjusted Maximum Dry Density t/m ³	2.08	2.09	**
Optimum Moisture Content (OMC) %	**	**	11.5
Adjusted Optimum Moisture Content (OMC) %	9.0	8.0	**
Moisture Variation %	4.0	2.5	4.0
Moisture Ratio %	56.5	67.0	67.0
Density Ratio %	98.5	98.5	100.5
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-35
Issue Number: 1
Date Issued: 22/02/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5801
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 15/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41041-126		
Date Tested	11/02/2022		
Time Tested	11:50		
Test Request #/Location	Lot - 102		
Line / Offset	8m N		
Offset	7m E		
Layer / Reduced Level	Layer 1		
Thickness of Layer (mm)	200		
Soil Description	-75mm Gravelly Sand		
Test Depth (mm)	150		
Fraction Tested (mm)	19.0		
Oversize (wet basis) %	19		
Oversize (dry basis) %	20		
Curing Hours	2.2		
Method used to Determine Plasticity	Visual/tactile		
Field Wet Density t/m ³	2.16		
Field Moisture Content %	11.3		
Field Dry Density t/m ³	1.94		
Maximum Dry Density t/m ³	**		
Adjusted Maximum Dry Density t/m ³	1.97		
Optimum Moisture Content (OMC) %	**		
Adjusted Optimum Moisture Content (OMC) %	9.0		
Moisture Variation %	-2.5		
Moisture Ratio %	125.5		
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: AGT41041-38
Issue Number: 1
Date Issued: 22/02/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5851
Date Sampled: 15/02/2022
Dates Tested: 15/02/2022 - 16/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41041-130	41041-131	
Date Tested	15/02/2022	15/02/2022	
Time Tested	09:01	09:10	
Test Request #/Location	Lot - 103	Lot - 104	
Line / Offset	4m N	6m N	
Offset	12m W	14m W	
Layer / Reduced Level	Layer 1	Layer 1	
Thickness of Layer (mm)	200	200	
Soil Description	-75mm Gravelly Sand	-75mm Gravelly Sand	
Test Depth (mm)	150	150	
Fraction Tested (mm)	19.0	19.0	
Oversize (wet basis) %	9	8	
Oversize (dry basis) %	9	7	
Curing Hours	18.4	19.1	
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	
Field Wet Density t/m ³	2.13	2.13	
Field Moisture Content %	10.8	10.1	
Field Dry Density t/m ³	1.92	1.93	
Maximum Dry Density t/m ³	**	**	
Adjusted Maximum Dry Density t/m ³	1.95	1.95	
Optimum Moisture Content (OMC) %	**	**	
Adjusted Optimum Moisture Content (OMC) %	11.5	10.5	
Moisture Variation %	0.5	0.5	
Moisture Ratio %	95.0	95.5	
Density Ratio %	99.0	99.0	
Compaction Method	Standard	Standard	

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-39
Issue Number: 1
Date Issued: 22/02/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5852
Date Sampled: 15/02/2022
Dates Tested: 15/02/2022 - 15/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Sample Number	41041-132		
Date Tested	15/02/2022		
Time Tested	09:36		
Test Request #/Location	Soft Spot 1 - Lot 102		
Line / Offset	7m N		
Offset	16m W		
Layer / Reduced Level	Layer 2		
Thickness of Layer (mm)	200		
Soil Description	-75mm Gravelly Sand		
Test Depth (mm)	150		
Fraction Tested (mm)	19.0		
Oversize (wet basis) %	9		
Oversize (dry basis) %	9		
Curing Hours	2.0		
Method used to Determine Plasticity	Visual/tactile		
Field Wet Density t/m ³	2.14		
Field Moisture Content %	7.0		
Field Dry Density t/m ³	2.00		
Maximum Dry Density t/m ³	**		
Adjusted Maximum Dry Density t/m ³	2.02		
Optimum Moisture Content (OMC) %	**		
Adjusted Optimum Moisture Content (OMC) %	12.5		
Moisture Variation %	6.0		
Moisture Ratio %	54.5		
Density Ratio %	99.0		
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: AGT41041-40
Issue Number: 1
Date Issued: 22/02/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5855
Date Sampled: 15/02/2022
Dates Tested: 16/02/2022 - 16/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	41041-133		
Date Tested	15/02/2022		
Time Tested	15:02		
Test Request #/Location	Lot - 102		
Line / Offset	4m N		
Offset	18m W		
Layer / Reduced Level	Layer 1		
Thickness of Layer (mm)	200		
Soil Description	-75mm Gravelly Sand		
Test Depth (mm)	150		
Fraction Tested (mm)	19.0		
Oversize (wet basis) %	9		
Oversize (dry basis) %	9		
Curing Hours	24.0		
Method used to Determine Plasticity	Visual/tactile		
Field Wet Density t/m ³	2.12		
Field Moisture Content %	9.4		
Field Dry Density t/m ³	1.94		
Maximum Dry Density t/m ³	**		
Adjusted Maximum Dry Density t/m ³	1.96		
Optimum Moisture Content (OMC) %	**		
Adjusted Optimum Moisture Content (OMC) %	10.5		
Moisture Variation %	1.0		
Moisture Ratio %	89.5		
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: AGT41041-41
Issue Number: 1
Date Issued: 22/02/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 5861
Date Sampled: 16/02/2022
Dates Tested: 17/02/2022 - 18/02/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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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	41041-134	41041-135	
Date Tested	16/02/2022	16/02/2022	
Time Tested	09:21	15:21	
Test Request #/Location	Lot - 102	Lot - 102	
Line / Offset	6m N	4m N	
Offset	15m W	16m W	
Layer / Reduced Level	Layer 2	FSL	
Thickness of Layer (mm)	200	200	
Soil Description	-75mm Gravelly Sand	-75mm Gravelly Sand	
Test Depth (mm)	150	150	
Fraction Tested (mm)	19.0	19.0	
Oversize (wet basis) %	**	**	
Oversize (dry basis) %	**	**	
Curing Hours	2.8	3.0	
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	
Field Wet Density t/m ³	2.21	2.24	
Field Moisture Content %	14.4	10.9	
Field Dry Density t/m ³	1.93	2.02	
Maximum Dry Density t/m ³	1.90	2.00	
Adjusted Maximum Dry Density t/m ³	**	**	
Optimum Moisture Content (OMC) %	13.5	11.5	
Adjusted Optimum Moisture Content (OMC) %	**	**	
Moisture Variation %	-1.0	0.5	
Moisture Ratio %	107.5	96.0	
Density Ratio %	101.5	101.0	
Compaction Method	Standard	Standard	

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-42
Issue Number: 1
Date Issued: 16/03/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 6015
Date Sampled: 03/03/2022
Dates Tested: 07/03/2022 - 07/03/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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 37 Nicholson Road Evanston South SA 5116
 Phone: 0435 111 647
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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	41041-136	41041-137	
Date Tested	03/03/2022	03/03/2022	
Time Tested	09:32	13:07	
Test Request #/Location	Lot - 99	Lot - 99	
Line / Offset	14m N	10m N	
Offset	5m E	7m E	
Layer / Reduced Level	Layer 1	Layer 2	
Thickness of Layer (mm)	200	200	
Soil Description	Clayey Sand	Clayey Sand	
Test Depth (mm)	150	150	
Fraction Tested (mm)	19.0	19.0	
Oversize (wet basis) %	**	**	
Oversize (dry basis) %	**	**	
Curing Hours	65.7	65.8	
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	
Field Wet Density t/m ³	2.04	2.10	
Field Moisture Content %	14.8	15.0	
Field Dry Density t/m ³	1.78	1.83	
Maximum Dry Density t/m ³	1.81	1.83	
Adjusted Maximum Dry Density t/m ³	**	**	
Optimum Moisture Content (OMC) %	14.5	15.0	
Adjusted Optimum Moisture Content (OMC) %	**	**	
Moisture Variation %	-0.5	0.0	
Moisture Ratio %	102.0	101.0	
Density Ratio %	98.5	100.0	
Compaction Method	Standard	Standard	

Moisture Variation Note:

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

Material Test Report

Report Number: AGT41041-45
Issue Number: 1
Date Issued: 29/03/2022
Client: NEO Infrastructure
 25 Liston Rd, Lonsdale SA
Project Number: AGT41041
Project Name: Rivers Edge Stage 4
Work Request: 6132
Date Sampled: 24/03/2022
Dates Tested: 25/03/2022 - 25/03/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 98% Standard AS1289 5.1.1
Site Selection: Selected by Client



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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	41041-148	41041-149	41041-150	41041-151	41041-152
Date Tested	25/03/2022	25/03/2022	25/03/2022	25/03/2022	25/03/2022
Time Tested	14:00	14:10	14:20	14:30	14:40
Test Request #/Location	Lot 97	Lot 98	Lot 99	Lot 100	Lot 102
Line / Offset	3m N	8m N	12m N	3m N	5m N
Offset	6m E	16m E	8m E	4m E	15m E
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	200	200	200	200	200
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay
Test Depth (mm)	150	150	150	150	150
Fraction Tested (mm)	19.0	19.0	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**	**	**
Oversize (dry basis) %	**	**	**	**	**
Curing Hours	2.0	2.0	2.0	2.0	2.0
Method used to Determine Plasticity	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile	Visual/tactile
Field Wet Density t/m ³	2.21	2.28	2.23	2.19	2.22
Field Moisture Content %	11.6	4.2	8.7	9.2	7.4
Field Dry Density t/m ³	1.98	2.19	2.05	2.00	2.06
Maximum Dry Density t/m ³	1.99	2.14	2.08	2.05	2.10
Adjusted Maximum Dry Density t/m ³	**	**	**	**	**
Optimum Moisture Content (OMC) %	11.0	4.0	8.5	10.0	7.5
Adjusted Optimum Moisture Content (OMC) %	**	**	**	**	**
Moisture Variation %	-0.5	0.0	0.0	1.0	0.0
Moisture Ratio %	105.5	101.0	100.5	91.0	100.0
Density Ratio %	99.5	102.5	98.5	98.0	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC