



23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks

REPORT ON LEVEL 1

EARTHWORKS INSPECTION AND TESTING



PROJECT: 357 Ripley Road Stage 1 Bulk Earthworks

CONTRACTOR: SEE Civil Pty Ltd

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1 INTRODUCTION

1.0 GENERAL

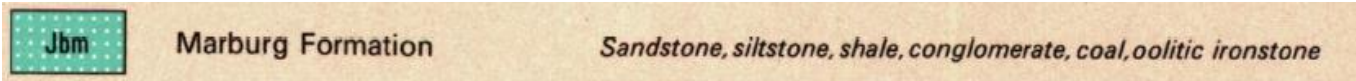
Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with Clause 8.2 of AS 3798-2007 *'Guidelines on earthworks for commercial and residential developments'*.

The fill placed on the site between the 16/08/2021 and 08/09/2022 as detailed in this report is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

1.1 SITE DESCRIPTION

The site is located at 357 Ripley Road in Ripley, Queensland. The site is a residential development which includes future commercial and neighbourhood center allotments, sports fields and parkland.

1.2 SITE GEOLOGY



Source: Moreton Geology Map

2 WORKS AND SPECIFICATIONS

The earthworks generally comprised of Level 1 filling placed across the site as part of the stage 1 bulk earthworks. Filling was conducted by using site won materials. The fill materials were placed in layers not exceeding 200mm and moisture conditioned. Compaction equipment was then utilised to compact the fill until the required density specifications were achieved.

Filling was carried out in accordance with AS3798-2007 *'Guidelines on earthworks for commercial and residential developments'* and with the project specification prepared for the project.

The specification requirements were that all fill was to be placed and compacted in layers to a density ratio of not less than 98% (standard compaction) within the proposed future commercial allotments and 95% (standard compaction) elsewhere across the site.

The extents of filling carried out during the works is shown in the overall bulk earthworks drawing included in appendix B of this report.

3 PREVIOUS EARTHWORKS

No previous earthworks had been undertaken on the site.

4 FILL FOUNDATION

The stripped surfaces of proposed fill areas were inspected, and proof rolled prior to placement of fill. In general, the proof rolling was carried out with the equipment used to compact the fill and water truck. Compliance of the fill foundation and approval to commence filling was on the basis of:

- Adequate removal of topsoil and organics
- Soundness (minimum deflection) under proof rolling

5 COMPLIANCE TESTING

Test locations were randomly selected by the Geotechnical Testing Authority (GTA) Australian Soil and Concrete Testing. Compaction control tests were carried out at regular intervals throughout the placement of fill and after completion in accordance with the minimum test frequency recommendations included in the specifications. The table below summarises the test results. The test locations were not professionally surveyed and should be considered approximate.

All field density tests carried out on the structural fill meet the minimum specification requirements of 98% (standard Compaction) (AS 1289 5.8.1, 5.7.1 & 2.1.1) within the proposed future commercial allotments and 95% (standard compaction) (AS 1289 5.8.1, 5.7.1 & 2.1.1) elsewhere across the site. Any areas where low compaction identified have been reworked and further testing carried out to confirm compliance.

SUMMARY OF FIELD DENSITY TEST RESULTS - COMMERCIAL ALLOTMENTS

Test Number	Test Date	Test Location			Test Level	Density Ratio %
70830	10/09/2022	Lot 1001	E: 8169.3	N: 40291.5	RL: 54.4	98.5
70831	10/09/2022	Lot 1001	E: 8182.0	N: 40293.9	RL: 54.8	98.0
70832	10/09/2022	Lot 1001	E: 8193.7	N: 40313.0	RL: 55.1	99.5
70833	10/09/2022	Lot 1001	E: 8202.2	N: 40303.8	RL: 55.5	101.5
70834	10/09/2022	Lot 1001	E: 8228.9	N: 40312.1	RL: 53.8	102.0
70835	10/09/2022	Lot 1001	E: 8208.4	N: 40327.7	RL: 54.3	98.0
70836	10/09/2022	Lot 1001	E: 8193.6	N: 40322.6	RL: 54.6	99.0
70837	10/09/2022	Lot 1001	E: 8183.5	N: 40340.1	RL: 54.8	98.5
70838	10/09/2022	Lot 1001	E: 8160.6	N: 40344.4	RL: 55.2	98.0
70839	10/09/2022	Lot 1001	E: 8152.7	N: 40350.5	RL: 55.5	101.0
70840	10/09/2022	Lot 1001	E: 8170.5	N: 40360.0	RL: 55.8	100.5
70841	10/09/2022	Lot 1001	E: 8184.8	N: 40364.9	RL: 56.2	99.5
70842	10/09/2022	Lot 1001	E: 8192.1	N: 40374.1	RL: 55.8	101.0
70843	10/09/2022	Lot 1001	E: 8222.8	N: 40325.8	RL: 54.7	101.5
70844	10/09/2022	Lot 1001	E: 8197.4	N: 40337.7	RL: 53.8	98.0
70845	10/09/2022	Lot 1001	E: 8155.8	N: 40361.4	RL: 55.7	100.0
70846	10/09/2022	Lot 1001	E: 8163.9	N: 40298.7	RL: 53.9	100.5
70847	10/09/2022	Lot 1001	E: 8170.3	N: 40300.6	RL: 54.3	99.0
70848	10/09/2022	Lot 1001	E: 8173.0	N: 40333.8	RL: 54.9	100.0
70849	10/09/2022	Lot 1001	E: 8184.0	N: 40356.6	RL: 54.1	98.5
70850	10/09/2022	Lot 1001	E: 8188.6	N: 40370.2	RL: 55.5	102.0
70851	10/09/2022	Lot 1001	E: 8181.3	N: 40328.8	RL: 54.6	103.0
70852	10/09/2022	Lot 1001	E: 8195.6	N: 40351.4	RL: 54.5	103.0
70853	10/09/2022	Lot 1001	E: 8192.1	N: 40366.3	RL: 55.2	103.5
70854	10/09/2022	Lot 1001	E: 8203.5	N: 40359.6	RL: 53.9	99.0
70855	10/09/2022	Lot 1001	E: 8077.3	N: 40357.9	FL - 0.5	98.5
70856	10/09/2022	Lot 1001	E: 8064.1	N: 40338.9	FL - 1.0	100.0

70857	10/09/2022	Lot 1001	E: 8073.4	N: 40260.6	FL	99.5
70858	10/09/2022	Lot 804	18m North, 7m West	SE Corner	FL	98.5
70859	10/09/2022	Lot 804	38m North, 19m West	SE Corner	FL - 0.5	99.0
70860	10/09/2022	Lot 804	65m North, 11m West	SE Corner	FL - 1.0	101.0
71541	16/09/2022	Lot 7000	E: 8140.7	N: 40574.6	RL: 68.3	99.0
71542	16/09/2022	Lot 7000	E: 8156.2	N: 40554.2	RL: 66.4	98.5
71543	16/09/2022	Lot 7000	E: 8160.8	N: 40526.0	RL: 64.1	99.0
71544	16/09/2022	Lot 7000	E: 8158.9	N: 40520.8	RL: 62.7	98.5
71545	16/09/2022	Lot 7000	E: 8168.2	N: 40532.9	RL: 63.4	98.5
71546	16/09/2022	Lot 7000	E: 8163.1	N: 40538.9	RL: 64.1	100.0
71547	16/09/2022	Lot 7000	E: 8155.0	N: 40521.4	RL: 64.8	101.5
71548	16/09/2022	Lot 7000	E: 8158.8	N: 40525.7	RL: 65.0	99.0
71549	16/09/2022	Lot 7000	E: 8162.3	N: 40537.9	RL: 65.3	101.0
71550	16/09/2022	Lot 7000	E: 8160.3	N: 40532.1	RL: 65.0	99.0
71551	16/09/2022	Lot 7000	E: 8154.1	N: 40540.1	RL: 64.7	100.5

No. of Tests: 42

Mean: 99.9 %

SUMMARY OF FIELD DENSITY TEST RESULTS - RESIDENTIAL ALLOTMENTS

Test Number	Test Date	Test Location			Test Level	Density Ratio %
		Fill Area	E	N		
53624	17/08/2021	Fill Area	E:8336.0	N:40184.6	RL:46.3	98.5
53625	17/08/2021	Fill Area	E:8327.5	N:40197.4	RL:46.8	100.0
53626	17/08/2021	Fill Area	E:8329.6	N:40206.1	RL:46.6	101.0
53627	17/08/2021	Fill Area	E:8347.5	N:40159.2	RL:45.1	97.0
53789	18/08/2021	Fill Area	E:8351.6	N:40143.9	RL:48.2	100.5
53790	18/08/2021	Fill Area	E:8343.4	N:40159.8	RL:48.0	96.0
53791	18/08/2021	Fill Area	E:8337.3	N:40175.0	RL:48.2	98.0
53792	18/08/2021	Fill Area	E:8329.9	N:40190.4	RL:47.8	98.5
53793	18/08/2021	Fill Area	E:8322.6	N:40204.9	RL:47.3	96.5
53794	18/08/2021	Fill Area	E:8338.4	N:40146.2	RL:47.2	98.0
53795	18/08/2021	Fill Area	E:8334.8	N:40155.1	RL:48.1	96.0
53796	18/08/2021	Fill Area	E:8331.9	N:40164.0	RL:47.8	98.0
53797	18/08/2021	Fill Area	E:8325.1	N:40176.6	RL:47.0	95.5
53798	18/08/2021	Fill Area	E:8314.9	N:40203.7	RL:48.1	99.5
53799	18/08/2021	Fill Area	E:8307.9	N:40222.8	RL:48.6	99.0
53800	18/08/2021	Fill Area	E:8308.3	N:40203.4	RL:48.1	99.0
53801	18/08/2021	Fill Area	E:8321.3	N:40168.5	RL:48.2	98.5
53802	19/08/2021	Fill Area	E:8123.5	N:40141.8	RL:52.2	96.0
53803	19/08/2021	Fill Area	E:8122.1	N:40125.5	RL:52.0	100.0
53804	19/08/2021	Fill Area	E:8136.9	N:40124.3	RL:52.3	98.5
53805	19/08/2021	Fill Area	E:8138.5	N:40142.2	RL:52.2	99.5
53806	19/08/2021	Fill Area	E:8142.5	N:40164.0	RL:52.4	100.5
53807	19/08/2021	Fill Area	E:8142.6	N:40182.6	RL:52.5	101.5
53808	19/08/2021	Fill Area	E:8108.4	N:40185.7	RL:54.1	98.0
53809	19/08/2021	Fill Area	E:8101.4	N:40155.9	RL:54.0	99.0
53810	19/08/2021	Fill Area	E:8087.9	N:40139.6	RL:54.8	100.5
53811	19/08/2021	Fill Area	E:8085.5	N:40144.5	RL:54.9	99.5
53812	19/08/2021	Fill Area	E:8095.6	N:40163.3	RL:54.7	97.0
53813	19/08/2021	Fill Area	E:8096.8	N:40184.5	RL:55.3	100.5

53957	20/08/2021	Fill Area	E:8224.7	N:40188.1	RL:47.5	97.5
53958	20/08/2021	Fill Area	E:8242.0	N:40199.3	RL:47.9	99.0
53959	20/08/2021	Fill Area	E:8276.3	N:40203.1	RL:48.0	98.0
53960	20/08/2021	Fill Area	E:8277.9	N:40188.8	RL:48.1	96.0
53961	20/08/2021	Fill Area	E:8276.8	N:40169.1	RL:47.6	98.0
53962	20/08/2021	Fill Area	E:8273.6	N:40142.6	RL:47.5	98.0
53963	20/08/2021	Fill Area	E:8272.9	N:40118.5	RL:48.5	98.0
53964	20/08/2021	Fill Area	E:8258.2	N:40123.5	RL:48.3	100.0
53965	20/08/2021	Fill Area	E:8257.2	N:40144.1	RL:48.1	96.5
53966	20/08/2021	Fill Area	E:8258.3	N:40174.9	RL:48.0	96.5
53978	23/08/2021	Fill Area	E:8164.3	N:40119.9	RL:49.8	101.5
53979	23/08/2021	Fill Area	E:8168.4	N:40146.4	RL:50.3	99.5
53980	23/08/2021	Fill Area	E:8193.3	N:40151.3	RL:49.2	102.0
53981	23/08/2021	Fill Area	E:8199.0	N:40123.6	RL:48.9	99.0
53982	23/08/2021	Fill Area	E:8222.6	N:40164.4	RL:48.5	100.5
53983	23/08/2021	Fill Area	E:8264.9	N:40208.1	RL:48.5	98.5
53984	23/08/2021	Fill Area	E:8242.4	N:40168.8	RL:48.3	98.5
53985	23/08/2021	Fill Area	E:8243.7	N:40143.8	RL:48.6	99.0
53986	23/08/2021	Fill Area	E:8246.3	N:40122.2	RL:48.5	99.0
53987	23/08/2021	Fill Area	E:8235.2	N:40109.5	RL:48.7	99.5
54255	25/08/2021	Fill Area	E:8171.6	N:40128.9	RL:49.9	96.0
54256	25/08/2021	Fill Area	E:8188.5	N:40157.3	RL:49.8	98.5
54257	25/08/2021	Fill Area	E:8205.1	N:40198.3	RL:49.3	96.0
54258	25/08/2021	Fill Area	E:8226.6	N:40240.1	RL:49.7	97.5
54259	25/08/2021	Fill Area	E:8264.6	N:40222.7	RL:48.9	99.5
54260	25/08/2021	Fill Area	E:8255.3	N:40174.9	RL:48.9	98.5
54261	25/08/2021	Fill Area	E:8236.4	N:40126.9	RL:49.0	100.0
54262	25/08/2021	Fill Area	E:8272.6	N:40093.7	RL:48.5	95.5
54263	25/08/2021	Fill Area	E:8276.8	N:40116.0	RL:48.4	97.0
54264	25/08/2021	Fill Area	E:8278.7	N:40133.3	RL:47.9	96.0
54500	30/08/2021	Fill Area	E:8171.1	N:40103.2	RL:50.3	98.0
54501	30/08/2021	Fill Area	E:8200.4	N:40096.6	RL:50.0	98.0
54502	30/08/2021	Fill Area	E:8229.1	N:40094.2	RL:49.7	99.5
54503	30/08/2021	Fill Area	E:8275.6	N:40083.7	RL:49.8	97.0
54504	30/08/2021	Fill Area	E:8307.5	N:40077.7	RL:49.9	96.5
54505	30/08/2021	Fill Area	E:8281.4	N:401268	RL:48.7	98.5
54506	30/08/2021	Fill Area	E:8285.3	N:40155.9	RL:48.6	95.5
54507	30/08/2021	Fill Area	E:8288.9	N:40185.4	RL:48.8	98.5
54508	30/08/2021	Fill Area	E:8301.1	N:40231.2	RL:51.0	95.5
54509	30/08/2021	Fill Area	E:8290.5	N:40227.2	RL:50.8	98.5
54510	30/08/2021	Fill Area	E:8269.5	N:40230.6	RL:50.7	99.5
54511	30/08/2021	Fill Area	E:8245.9	N:40234.6	RL:50.9	98.0
54512	30/08/2021	Fill Area	E:8214.4	N:40239.4	RL:50.8	97.0
54513	30/08/2021	Fill Area	E:8301.2	N:40071.9	RL:49.7	97.5
54514	30/08/2021	Fill Area	E:8292.1	N:40229.4	RL:49.9	99.0
54515	30/08/2021	Fill Area	E:8206.3	N:40101.2	RL:49.6	98.5
54516	30/08/2021	Fill Area	E:8231.6	N:40092.1	RL:49.4	95.0
54517	30/08/2021	Fill Area	E:8283.6	N:40125.2	RL:48.3	95.5
54518	30/08/2021	Fill Area	E:8287.3	N:40157.8	RL:48.1	97.0
54808	31/08/2021	SE Fill Area	E: 8182.9	N: 40115.2	RL: 48.4	97.5
54809	31/08/2021	SE Fill Area	E: 8191.6	N: 40126.0	RL: 48.3	96.5
54810	31/08/2021	SE Fill Area	E: 8204.3	N: 40139.8	RL: 48.5	99.0
54811	31/08/2021	SE Fill Area	E: 8211.9	N: 40144.2	RL: 48.3	99.5
54812	31/08/2021	SE Fill Area	E: 8221.0	N: 40163.7	RL: 48.2	99.0
54813	31/08/2021	SE Fill Area	E: 8228.0	N: 40188.1	RL: 48.6	96.0
54814	31/08/2021	SE Fill Area	E: 8234.1	N: 40194.4	RL: 48.7	98.0
54815	31/08/2021	SE Fill Area	E: 8243.7	N: 40215.6	RL: 48.8	97.5
54816	31/08/2021	SE Fill Area	E: 8250.0	N: 40231.0	RL: 48.8	97.0
54853	2/09/2021	SE Fill Area	E: 8177.0	N: 40119.2	RL: 48.9	96.5
54854	2/09/2021	SE Fill Area	E: 8184.2	N: 40126.9	RL: 49.0	95.0
54855	2/09/2021	SE Fill Area	E: 8191.9	N: 40140.1	RL: 49.0	96.5

54856	2/09/2021	SE Fill Area	E: 8196.2	N: 40155.5	RL: 49.2	97.0
54857	2/09/2021	SE Fill Area	E: 8200.3	N: 40171.3	RL: 49.3	96.0
54858	2/09/2021	SE Fill Area	E: 8202.9	N: 40176.5	RL: 48.8	95.5
54859	2/09/2021	SE Fill Area	E: 8211.4	N: 40187.9	RL: 48.7	97.0
54860	2/09/2021	SE Fill Area	E: 8219.6	N: 40192.8	RL: 48.7	96.5
54861	2/09/2021	SE Fill Area	E: 8230.0	N: 40203.3	RL: 48.5	95.5
54862	2/09/2021	SE Fill Area	E: 8239.4	N: 40211.3	RL: 48.5	97.0
54863	2/09/2021	SE Fill Area	E:8180.7	N: 40106.0	RL: 49.3	95.0
54864	2/09/2021	SE Fill Area	E: 8191.0	N: 40120.8	RL: 49.5	95.5
54865	2/09/2021	SE Fill Area	E: 8203.6	N: 40133.5	RL: 49.4	96.5
54866	2/09/2021	SE Fill Area	E: 8215.9	N: 40151.9	RL: 49.3	96.5
54867	2/09/2021	SE Fill Area	E: 8222.0	N: 40162.2	RL: 49.5	95.5
54868	2/09/2021	SE Fill Area	E: 8236.1	N: 40177.3	RL: 49.4	95.5
54869	2/09/2021	SE Fill Area	E: 8240.7	N: 40190.1	RL: 49.5	97.0
54870	2/09/2021	SE Fill Area	E: 8252.2	N: 40193.8	RL: 49.6	97.0
54871	2/09/2021	SE Fill Area	E: 8267.9	N: 40219.3	RL: 49.7	96.0
54872	2/09/2021	SE Fill Area	E: 8279.4	N: 40229.3	RL: 49.6	98.5
54873	3/09/2021	SE Fill Area	E: 8190.4	N: 40124.6	RL: 49.8	97.5
54874	3/09/2021	SE Fill Area	E: 8192.6	N: 40139.7	RL: 49.7	96.0
54875	3/09/2021	SE Fill Area	E: 8196.4	N: 40156.6	RL: 49.8	95.5
54876	3/09/2021	SE Fill Area	E: 8206.0	N: 40190.1	RL: 49.6	96.5
54877	3/09/2021	SE Fill Area	E: 8215.9	N: 40209.0	RL: 49.7	97.5
54878	3/09/2021	SE Fill Area	E: 8218.1	N: 40121.0	RL: 49.9	96.5
54879	3/09/2021	SE Fill Area	E: 8220.9	N: 40135.0	RL: 49.9	97.0
54880	3/09/2021	SE Fill Area	E: 8225.5	N: 40150.8	RL: 49.8	98.0
54881	3/09/2021	SE Fill Area	E: 8229.3	N: 40182.4	RL: 49.7	97.0
54882	3/09/2021	SE Fill Area	E: 8933.4	N: 40198.0	RL: 49.9	96.5
54883	3/09/2021	SE Fill Area	E: 8188.3	N: 40144.1	RL: 49.9	96.0
54884	3/09/2021	SE Fill Area	E: 8197.6	N: 40158.3	RL: 50.0	99.5
54885	3/09/2021	SE Fill Area	E: 8222.7	N: 40190.0	RL: 50.1	97.0
54886	3/09/2021	SE Fill Area	E: 8229.6	N: 40203.4	RL: 49.9	95.5
54887	3/09/2021	SE Fill Area	E: 8235.6	N: 40224.0	RL: 50.0	98.0
55112	7/09/2021	SE Fill Area	E: 8203.1	N: 40145.5	RL: 51.1	97.0
55113	7/09/2021	SE Fill Area	E: 8208.5	N: 40151.5	RL: 51.0	97.5
55114	7/09/2021	SE Fill Area	E: 8211.9	N: 40160.5	RL: 51.2	97.5
55115	7/09/2021	SE Fill Area	E: 8218.4	N: 40182.9	RL: 51.1	97.0
55116	7/09/2021	SE Fill Area	E: 8204.6	N: 40194.8	RL: 51.4	98.5
55117	7/09/2021	SE Fill Area	E: 8197.1	N: 40212.0	RL: 51.5	98.0
55118	7/09/2021	SE Fill Area	E: 8188.8	N: 40220.8	RL: 51.4	100.0
55119	7/09/2021	SE Fill Area	E: 8194.1	N: 40104.7	RL: 51.6	99.0
55120	7/09/2021	SE Fill Area	E: 8199.8	N: 40110.1	RL: 51.6	98.0
55121	7/09/2021	SE Fill Area	E: 8206.0	N: 40116.7	RL: 51.6	98.0
55122	7/09/2021	SE Fill Area	E: 8212.4	N: 40127.3	RL: 51.7	97.0
55123	7/09/2021	SE Fill Area	E: 8228.0	N: 40138.8	RL: 51.9	97.0
55124	7/09/2021	SE Fill Area	E: 8211.5	N: 40143.9	RL: 51.8	98.5
55125	7/09/2021	SE Fill Area	E: 8185.6	N: 40153.2	RL: 51.8	99.5
55126	8/09/2021	Road 2A	E: 8141.2	N: 40290.6	SG - 1.2m	97.5
55127	8/09/2021	Road 2A	E: 8136.6	N: 40299.5	SG - 0.8m	99.5
55128	8/09/2021	Road 2A	E: 8129.9	N: 40334.1	SG - 0.8m	99.0
55129	8/09/2021	Road 2A	E: 8126.5	N: 40361.8	SG - 0.5m	98.5
55130	8/09/2021	SE Fill Area	E: 8171.1	N: 40303.9	RL: 51.7	98.0
55131	8/09/2021	SE Fill Area	E: 8220.4	N: 40325.0	RL: 51.6	97.5
55132	8/09/2021	SE Fill Area	E: 8184.8	N: 40339.6	RL: 51.8	98.0
55133	8/09/2021	SE Fill Area	E: 8146.7	N: 40362.4	RL: 51.6	99.0
55134	8/09/2021	SE Fill Area	E: 8210.4	N: 40240.6	RL: 51.9	99.0
55135	8/09/2021	SE Fill Area	E: 8236.0	N: 40212.5	RL: 51.8	98.5
55136	8/09/2021	SE Fill Area	E: 8238.4	N: 40100.0	RL: 52.1	99.5
55137	8/09/2021	SE Fill Area	E: 8248.4	N: 40133.7	RL: 52.0	99.0
55709	9/09/2021	NE Fill Area	E: 8141.0	N: 40574.2	FL	96.5
55710	9/09/2021	NE Fill Area	E: 8155.3	N: 40553.9	FL	97.0
55711	9/09/2021	NE Fill Area	E: 8161.4	N: 40526.8	RL: 64.4	96.5

55712	9/09/2021	SE Fill Area	E: 8197.6	N: 40337.4	FL	95.5
55713	9/09/2021	SE Fill Area	E: 8155.3	N: 40361.2	FL	94.5
55714	9/09/2021	NE Fill Area	E: 8159.5	N: 40520.0	RL: 62.9	95.5
55715	9/09/2021	NE Fill Area	E: 8167.9	N: 40533.7	RL: 63.6	97.5
55716	9/09/2021	NE Fill Area	E: 8162.6	N: 40539.7	RL: 64.0	97.0
55717	10/09/2021	SE Fill Area	E: 8218.3	N: 40224.0	RL: 52.0	97.5
55718	10/09/2021	SE Fill Area	E: 8230.1	N: 410196.5	RL: 52.2	95.0
55719	10/09/2021	SE Fill Area	E: 8238.5	N: 40199.3	RL: 51.9	97.5
55720	10/09/2021	SE Fill Area	E: 8254.7	N: 40163.0	RL: 51.7	97.0
55721	10/09/2021	SE Fill Area	E: 8280.1	N: 40142.0	RL: 51.5	97.5
55755	13/09/2021	SE Fill Area	E: 8246.4	N: 40101.3	RL: 51.5	96.5
55756	13/09/2021	SE Fill Area	E: 8229.6	N: 40126.3	RL: 51.5	98.0
55757	13/09/2021	SE Fill Area	E: 8215.5	N: 40140.0	RL: 51.6	96.5
55758	13/09/2021	SE Fill Area	E: 8204.8	N: 40166.9	RL: 51.8	97.5
55759	13/09/2021	SE Fill Area	E: 8260.1	N: 40193.7	RL: 51.8	99.0
55760	13/09/2021	SE Fill Area	E: 8188.3	N: 40111.9	RL: 51.7	97.0
55761	13/09/2021	SE Fill Area	E: 8194.4	N: 40126.3	RL: 51.9	97.5
55762	13/09/2021	SE Fill Area	E: 8199.3	N: 40141.8	RL: 51.8	98.5
55763	13/09/2021	SE Fill Area	E: 8206.7	N: 40177.3	RL: 51.9	98.0
55764	13/09/2021	SE Fill Area	E: 8215.5	N: 40184.7	RL: 52.1	96.0
55901	16/09/2021	NW Fill Area	Lots 286/237	Boundary	FL	97.5
55902	16/09/2021	NW Fill Area	Lots 284/285	Boundary	FL	96.5
55903	16/09/2021	NW Fill Area	Lots 282/283	Boundary	FL	96.5
55904	16/09/2021	NW Fill Area	Lots 280/281	Boundary	FL	98.0
55905	16/09/2021	NW Fill Area	Lots 279/300	Boundary	FL	96.5
55906	16/09/2021	NW Fill Area	Lots 293/294	Boundary	FL	100.0
55907	16/09/2021	NW Fill Area	Lots 295/296	Boundary	FL	97.0
55908	16/09/2021	NW Fill Area	Lots 297/298	Boundary	FL	97.0
55909	16/09/2021	NW Fill Area	Lots 299/300	Boundary	FL	99.0
55910	16/09/2021	NW Fill Area	Lots 248/249	Boundary	FL	97.0
55943	17/09/2021	NW Fill Area	Lots 251/252/253	Boundary	FL -0.6m	98.0
55944	17/09/2021	NW Fill Area	Lots 254/255	Boundary	FL -0.4m	97.5
55945	17/09/2021	NW Fill Area	Lots 287/288/289	Boundary	FL -0.6m	100.0
55946	17/09/2021	NW Fill Area	Lots 290/291	Boundary	FL -0.3m	97.5
55947	17/09/2021	NW Fill Area	Lots 101/102/103	Boundary	FL -0.3m	98.5
55950	20/09/2021	SE Fill Area	E: 8206.1	N: 40119.2	FL	98.0
55951	20/09/2021	SE Fill Area	E: 8250.0	N: 40133.7	FL	97.0
55952	20/09/2021	SE Fill Area	E: 8189.5	N: 40152.8	FL	95.5
55953	20/09/2021	SE Fill Area	E: 8236.9	N: 40193.8	FL	97.0
55954	20/09/2021	SE Fill Area	E: 8280.2	N: 40215.7	FL	95.5
56151	22/09/2021	South Fill Area	Lot 44	15m N , 8m W	FL	96.5
56152	22/09/2021	South Fill Area	Lot 43	4m N , 3m W	FL	97.0
56153	22/09/2021	South Fill Area	Lot 42	10m N , 6m W	FL	96.0
56154	22/09/2021	South Fill Area	Lot 41	6m N , 11m W	FL	97.0
56155	22/09/2021	South Fill Area	Lot 40	16m N , 7m W	FL	96.0

57108	21/10/2021	Lot 103	4m off BB	2m off LB	FL - 0.4m	97.0
57109	21/10/2021	Lot 103	20m off BB	8m off LB	FL	96.0
57110	21/10/2021	Lot 104	3m off BB	5m off LB	FL - 0.3m	96.0
57111	21/10/2021	Lot 104	18m off BB	6m off LB	FL	99.5
57112	21/10/2021	Lot 105	10m off BB	3m off LB	FL - 0.3m	95.5
57113	21/10/2021	Lot 105	17m off BB	9m off LB	FL	100.5
57114	21/10/2021	Lot 106	9m off BB	8m off LB	FL	101.0
57115	21/10/2021	Lot 106	21m off BB	2m off LB	FL	95.5
57116	21/10/2021	Lot 107	5m off BB	7m off LB	FL - 0.4m	96.5
57117	21/10/2021	Lot 107	15m off BB	3m off LB	FL	97.0
57118	21/10/2021	Lot 108	11m off BB	1m off LB	FL - 0.4m	95.5
57119	21/10/2021	Lot 108	18m off BB	6m off LB	FL	101.5
57120	21/10/2021	Lot 113	9m off BB	2m off RB	FL	96.5
57121	21/10/2021	Lot 101	11m off BB	4m off RB	FL	102.0
57122	21/10/2021	Lot 100	4m off BB	3m off RB	FL	99.0
57585	1/11/2021	Lot 71	11m off FB	6m off RB	FL	95.5
57586	1/11/2021	Lot 70	15m off FB	2m off RB	FL	100.0
57587	1/11/2021	Lot 69	5m off BB	2m off RB	FL	95.5
57588	1/11/2021	Lot 68	8m off FB	3m off RB	FL	97.0
57589	1/11/2021	Lot 67	4m off BB	2m off RB	FL	98.0
57739	4/11/2021	Lot 66	3m off BB	5m off BB	FL	96.5
57740	4/11/2021	Lot 362	3m off RB	6m off LB	FL	98.5
57741	4/11/2021	Lot 363	11m off FB	6m off FB	FL	97.0
57742	4/11/2021	Lot 364	7m off RB	5m off RB	FL	99.5
60733	9/02/2022	Lot 302	7m off FB	4m off LB	FL - 0.4m	99.5
60734	9/02/2022	Lot 302	9m off BB	3m off LB	FL	98.0
60735	9/02/2022	Lot 303	11m off FB	8m off LB	FL	98.5
60736	9/02/2022	Lot 303	6m off BB	4m off LB	FL - 0.3m	97.5
60737	9/02/2022	Lot 304	8m off FB	6m off LB	FL - 0.5m	97.0
60738	9/02/2022	Lot 304	4m off BB	9m off LB	FL	97.5
60739	9/02/2022	Lot 305	3m off FB	3m off LB	FL	98.5
60740	9/02/2022	Lot 305	13m off BB	7m off LB	FL - 0.3m	101.0
60741	9/02/2022	Lot 277	11m off FB	8m off LB	FL - 0.4m	100.5
60742	9/02/2022	Lot 277	8m off BB	4m off LB	FL	98.0
60743	9/02/2022	Lot 276	10m off FB	2m off LB	FL - 0.6m	98.0
60744	9/02/2022	Lot 276	5m off BB	7m off LB	FL - 0.2m	98.5
60745	9/02/2022	Lot 275	5m off FB	8m off LB	FL	97.5
60746	9/02/2022	Lot 275	9m off BB	3m off LB	FL - 0.3m	98.5
60747	9/02/2022	Lot 274	7m off FB	6m off LB	FL - 0.4m	97.5
60748	9/02/2022	Lot 274	11m off BB	5m off LB	FL	100.5
60749	9/02/2022	Lot 355	16m North, 19m West	SE Corner	FL	98.5
60750	9/02/2022	Lot 307	9m off FB	2m off LB	FL - 0.4m	97.5
60751	9/02/2022	Lot 272	9m off FB	5m off LB	FL - 0.5m	99.0
60752	9/02/2022	Lot 273	3m North, 11m East	SW Corner	FL - 0.2m	98.0
60763	10/02/2022	Lot 266	2m off FB	7m off LB	FL - 0.3m	101.0
60764	10/02/2022	Lot 266	8m off BB	2m off LB	FL	98.0
60765	10/02/2022	Lot 267	10m off FB	8m off LB	FL	100.5
60766	10/02/2022	Lot 267	7m off BB	3m off LB	FL - 0.3m	101.0
60767	10/02/2022	Lot 268	4m off FB	5m off LB	FL - 0.5m	101.0
60768	10/02/2022	Lot 268	2m off BB	6m off LB	FL - 0.2m	98.0
60769	10/02/2022	Lot 269	12m off FB	9m off LB	FL	99.5
60770	10/02/2022	Lot 269	4m off BB	6m off LB	FL - 0.3m	98.5
60771	10/02/2022	Lot 270	9m North, 9m West	SE Corner	FL	99.0
60772	10/02/2022	Lot 271	14m off FB	4m off LB	FL	101.0
60773	10/02/2022	Lot 236	18m off FB	4m off LB	FL - 0.3m	97.0
60774	10/02/2022	Lot 237	17m North, 19m East	SW Corner	FL	96.5
60775	10/02/2022	Lot 238	16m off FB	6m off LB	FL	101.0
60776	10/02/2022	Lot 238	9m off BB	3m off LB	FL - 0.2m	97.0
60777	10/02/2022	Lot 239	13m off FB	2m off LB	FL - 0.3m	97.5
60778	10/02/2022	Lot 239	7m off BB	4m off LB	FL	98.0
60779	10/02/2022	Lot 240	5m off FB	2m off LB	FL - 0.3m	99.0

60780	10/02/2022	Lot 240	9m off BB	8m off LB	FL - 0.5m	98.0
60781	10/02/2022	Lot 241	3m off FB	4m off LB	FL - 0.2m	99.5
60782	10/02/2022	Lot 241	7m off BB	6m off LB	FL	100.0
70894	8/09/2022	Lot 264	8m off North Boundary	19m off East Boundary	F/L	97.0
70895	8/09/2022	Lot 263	6m off North Boundary	11m off East Boundary	F/L	99.0
70896	8/09/2022	Lot 262	9m off North Boundary	17m off East Boundary	F/L	97.5
70897	8/09/2022	Lot 261	6m off North Boundary	12m off East Boundary	F/L	98.5
70898	8/09/2022	Lot 260	8m off North Boundary	10m off East Boundary	F/L	95.5
70899	8/09/2022	Lot 259	9m off North Boundary	26m off East Boundary	F/L	101.5
70900	8/09/2022	Lot 258	8m off North Boundary	9m off East Boundary	F/L	95.5
70901	8/09/2022	Lot 257	6m off North Boundary	12m off East Boundary	F/L	99.0
70902	8/09/2022	Lot 256	6m off North Boundary	24m off East Boundary	F/L	99.0
70903	8/09/2022	Lot 102	12m off North Boundary	8m off East Boundary	F/L	101.0
70904	8/09/2022	Lot 255	19m off North Boundary	6m off East Boundary	F/L	97.5
70905	8/09/2022	Lot 254	18m off North Boundary	5m off East Boundary	F/L	100.5
70906	8/09/2022	Lot 253	17m off North Boundary	7m off East Boundary	F/L	101.0
70907	8/09/2022	Lot 252	10m off North Boundary	8m off East Boundary	F/L	97.0
70908	8/09/2022	Lot 251	2m off North Boundary	12m off East Boundary	F/L	100.5
70909	8/09/2022	Lot 250	4m off North Boundary	8m off East Boundary	F/L	97.5
70910	8/09/2022	Lot 248	6m off North Boundary	10m off East Boundary	F/L	100.0
70911	8/09/2022	Lot 243	8m off North Boundary	12m off East Boundary	F/L	97.5
70912	8/09/2022	Lot 244	8m off North Boundary	10m off East Boundary	F/L	101.5
70913	8/09/2022	Lot 245	9m off North Boundary	8m off East Boundary	F/L	97.5
70914	8/09/2022	Lot 290	10m off North Boundary	4m off East Boundary	F/L	97.0
70915	8/09/2022	Lot 291	11m off North Boundary	3m off East Boundary	F/L	99.5
70916	8/09/2022	Lot 281	12m off North Boundary	10m off East Boundary	F/L	98.0
70917	8/09/2022	Lot 279	6m off North Boundary	13m off East Boundary	F/L	100.5
70918	8/09/2022	Lot 381	10m off North Boundary	22m off East Boundary	F/L	99.0
70919	8/09/2022	Lot 382	14m off North Boundary	25m off East Boundary	F/L	96.5
70920	8/09/2022	Lot 383	22m off North Boundary	5m off East Boundary	F/L	97.0
70921	8/09/2022	Lot 380	6m off North Boundary	20m off East Boundary	F/L	96.5
70922	8/09/2022	Lot 55	12m off North Boundary	4m off East Boundary	F/L	99.5
70923	8/09/2022	Lot 53	6m off North Boundary	2m off East Boundary	F/L	97.0
70924	8/09/2022	Lot 288	19m off North Boundary	8m off East Boundary	F/L	99.5
70925	8/09/2022	Lot 289	14m off North Boundary	3m off East Boundary	F/L	101.5

70926	8/09/2022	Lot 47	28m off North Boundary	5m off East Boundary	F/L	101.0
70927	8/09/2022	Lot 48	30m off North Boundary	1m off East Boundary	F/L	101.0

No. of Tests: 294 Mean: 97.9 %

6 CONCLUSION

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction, as far as we have been able to determine, the structural fill placed on the site as part of the Stage 1 works between the 16/08/2021 and 08/09/2022 is considered to have been carried out in general accordance with AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

7 LIMITATIONS

Unless otherwise stated in this report, this report does not include: Backfill behind retaining structures, Backfill to service trenches, Road Pavements, Any Topsoil placed on the site, Any previous filling on the site, Slope Stability or Site Drainage.

Please do not hesitate to contact me if you have any queries.

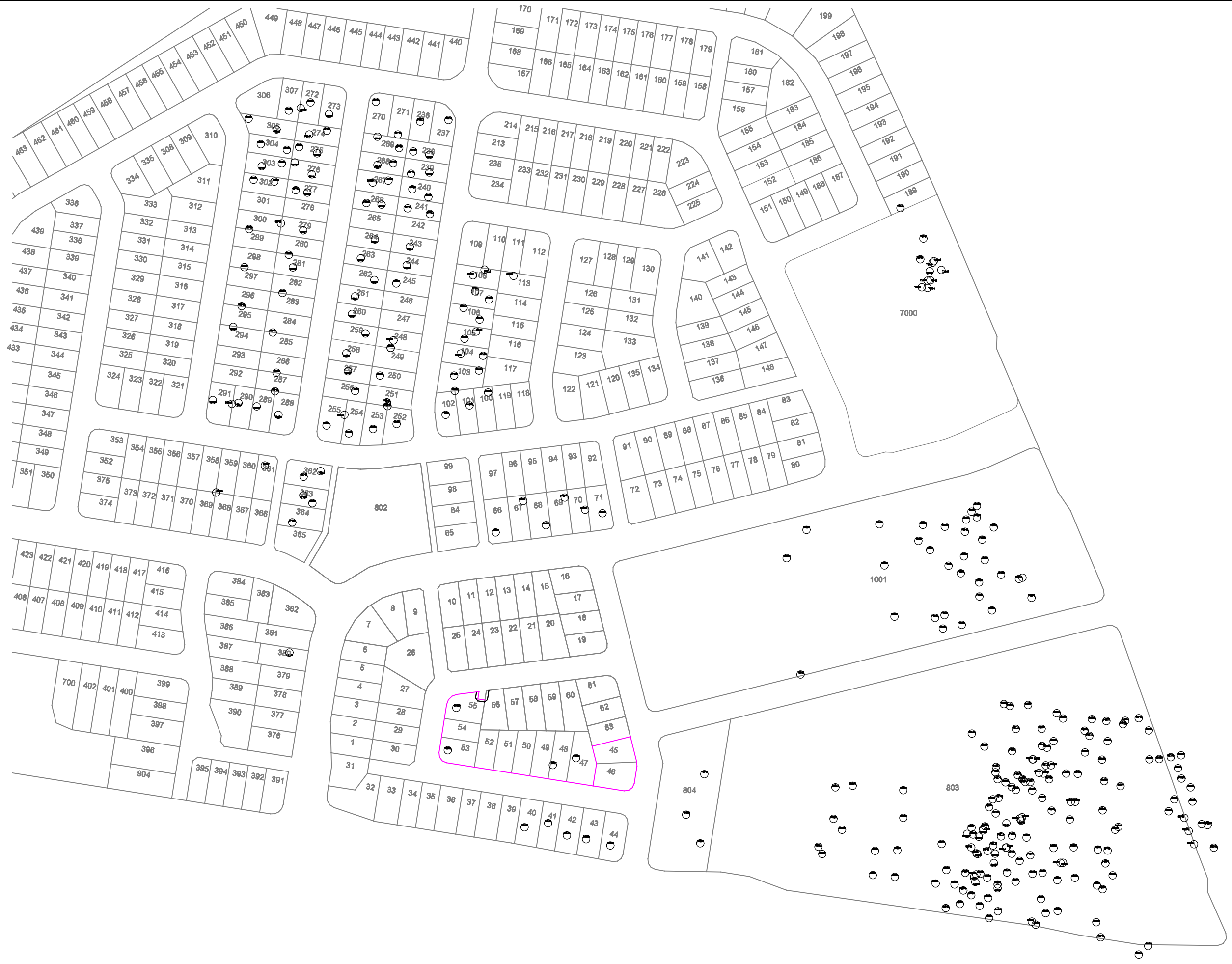
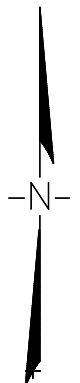
Yours faithfully



Jason Mckenna
 Laboratory Manager
 ASCT Brisbane South
jason.mckenna@asct.com.au

Appendix A

Test Locations



Notes & Disclaimers

The information shown on this plan has been collated from field survey data. No design work has been carried out by SEE Civil. The plan is merely the location of improvements designed by others. All construction has been carried out to the design provided by the client and the client's representative. Underground cables and services must be specifically located by appropriately qualified service locators prior to the commencement of any excavation works. The title boundaries shown hereon were not marked at the time of survey and have been determined by plan dimensions only and not by field survey.

Amendments		Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road, Bellevue Soil Tests
Street Address	
RP Description	

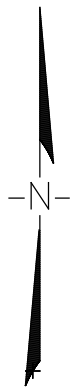
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LGA	

Azimuth	North
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SUBURB	

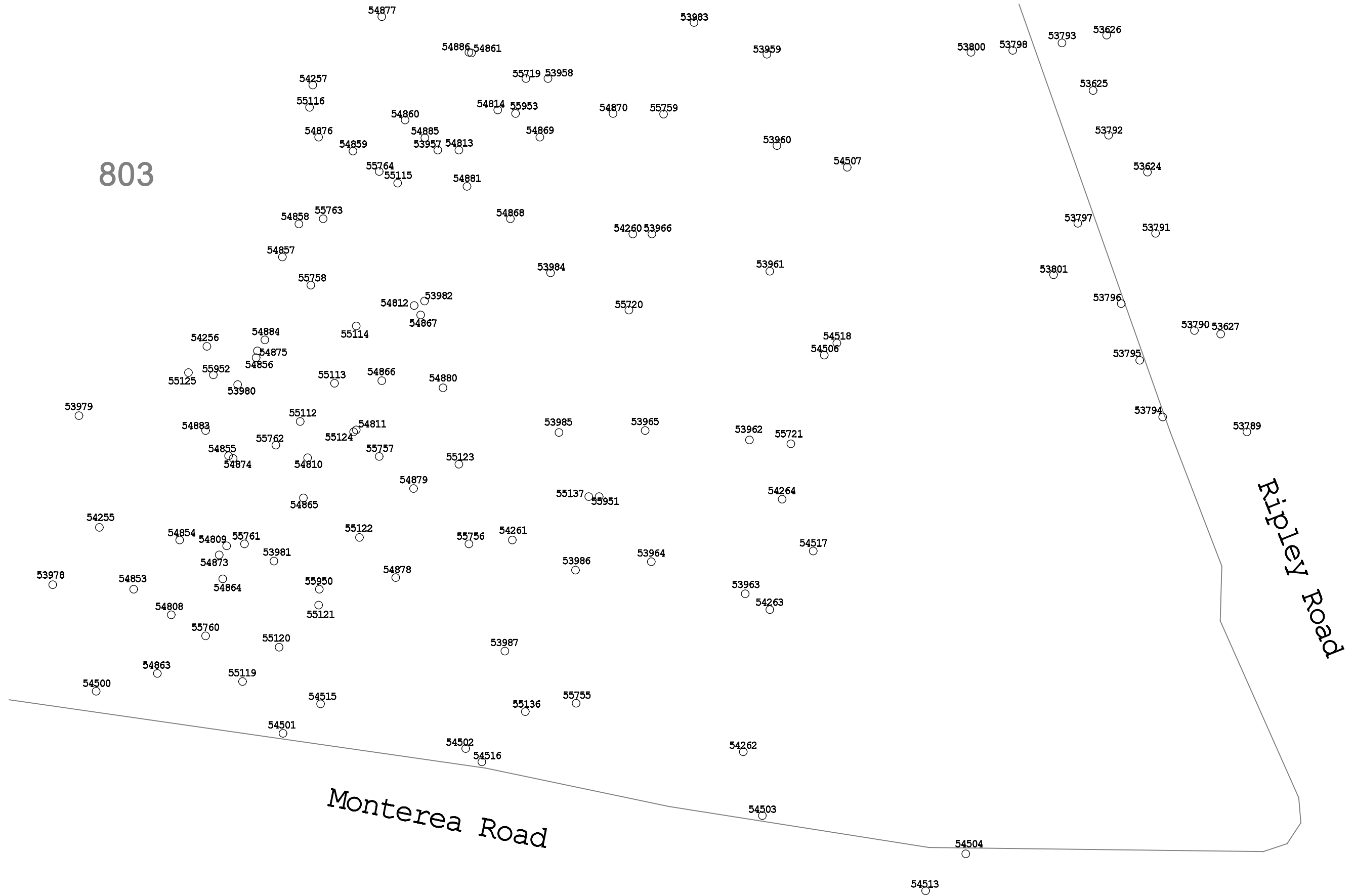
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JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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803



Notes & Disclaimers

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A	Amendments	Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road, Bellevue Soil Tests
Street Address	
RP Description	

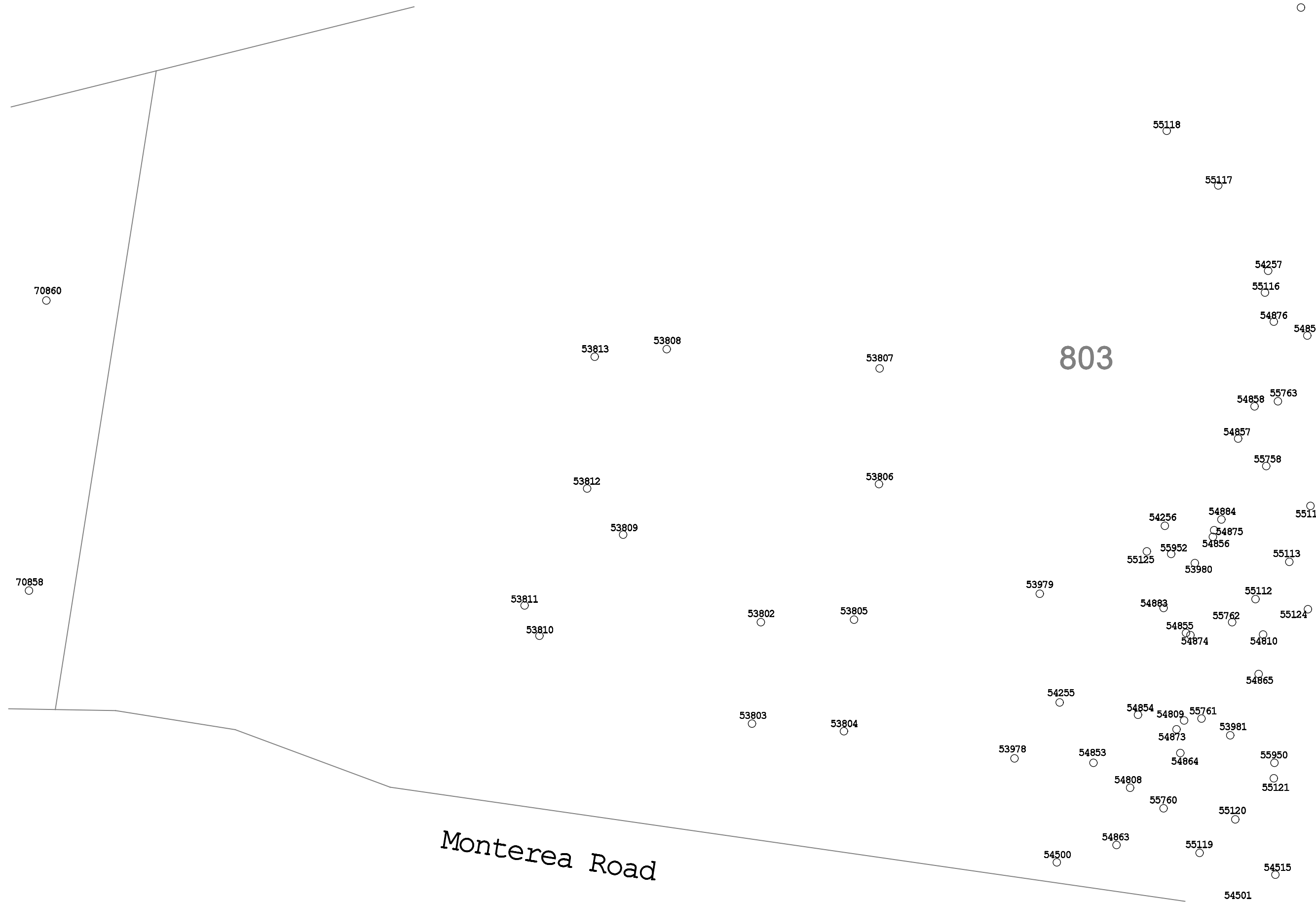
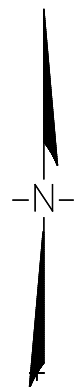
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Azimuth	North
Contour Interval:	
SUBURB	

DATE	5-09-22
JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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Monterea Road

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A	Amendments	Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road , Bellevue Soil Tests
Street Address	
RP Description	

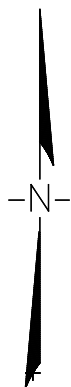
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LGA	SUBURB

Azimuth	North
Contour Interval:	

DATE	5-09-22
JOB NO	J966
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SURVEYED	BJC
CHECKED	
QT	
Scale	1:600

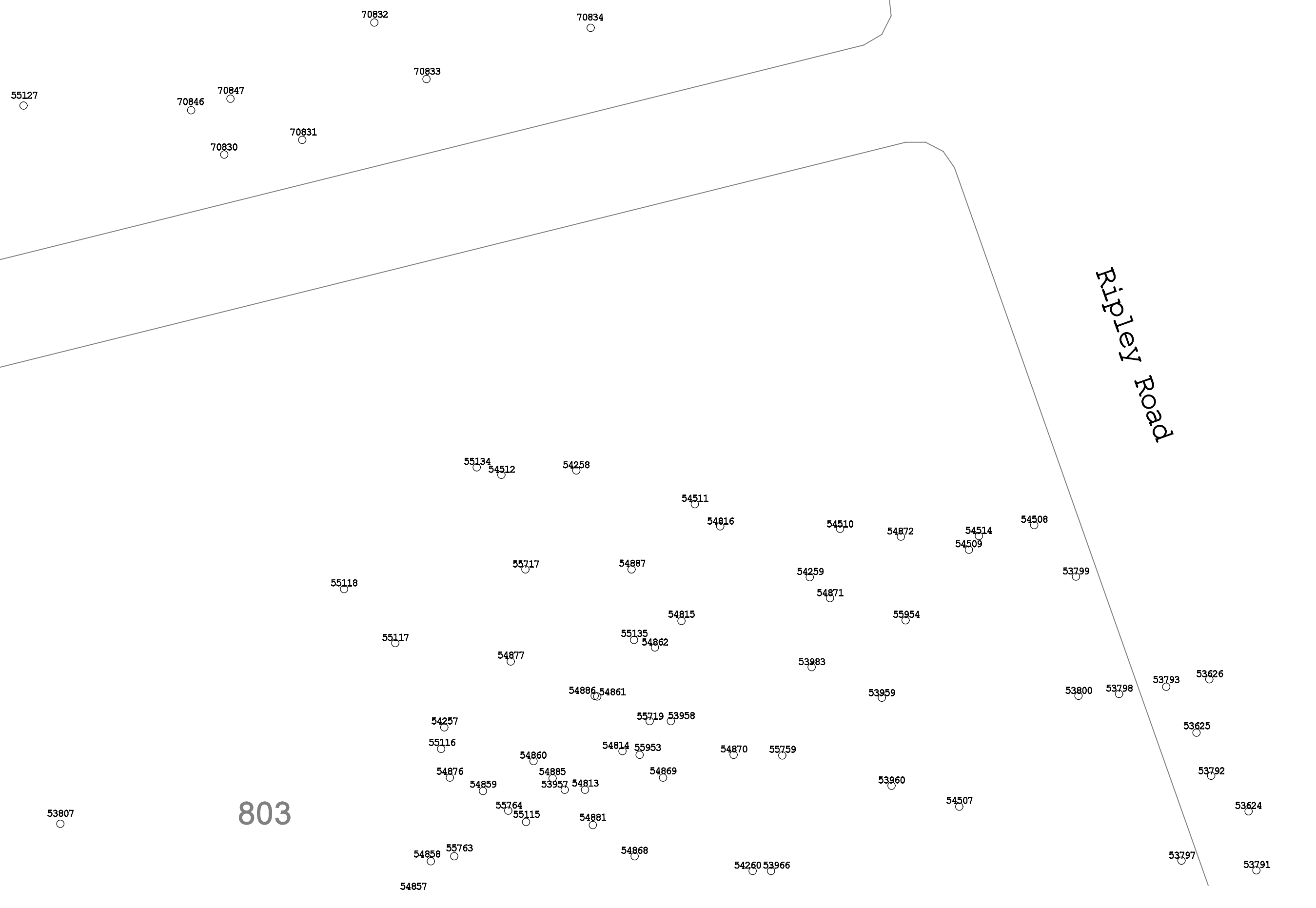


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 Plan No: Tests 2 A3



Ripley Road

803



Notes & Disclaimers

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A	Amendments	Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road, Bellevue Soil Tests
Street Address	
RP Description	

Level Datum	AHD
Origin	
LGA	

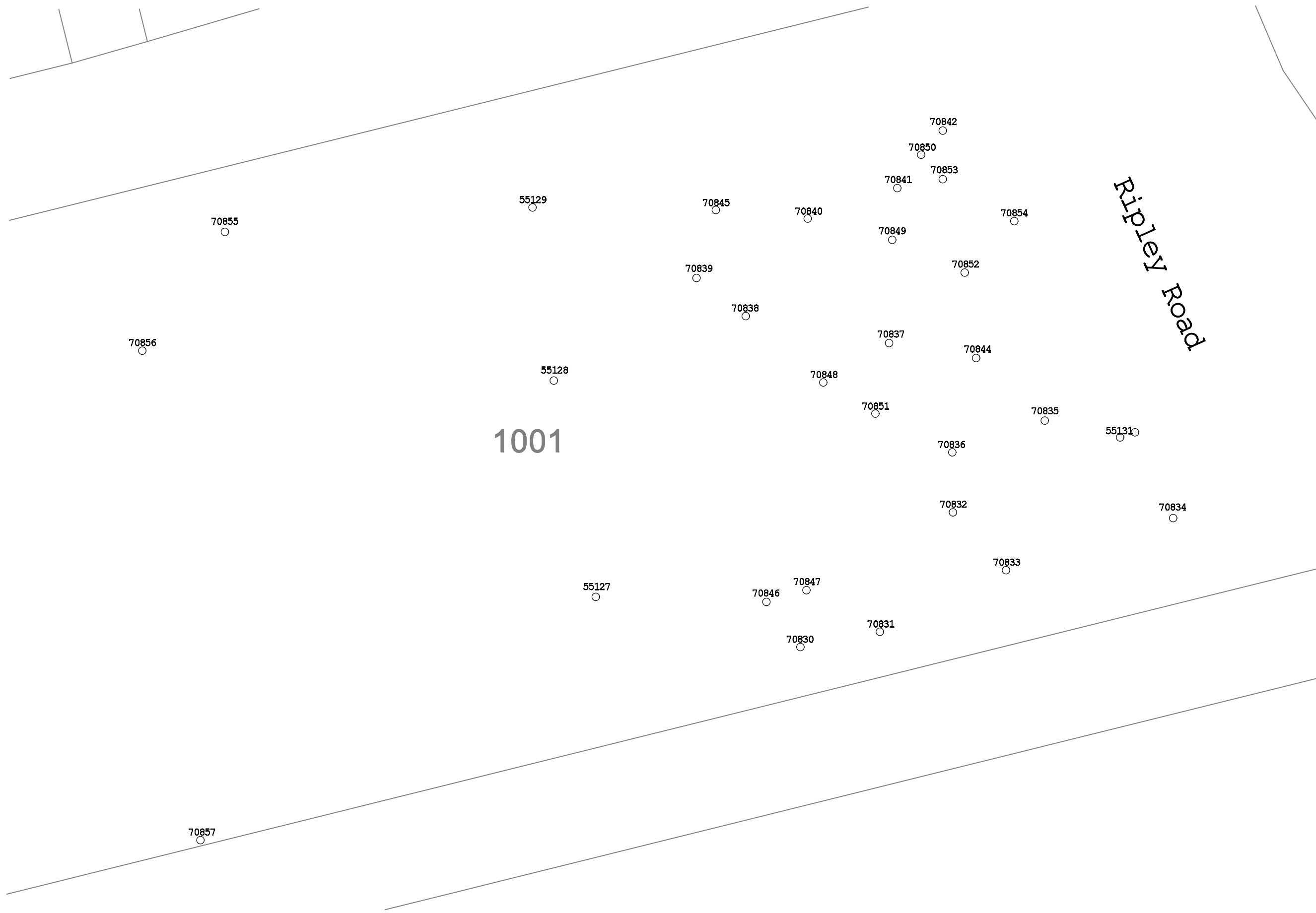
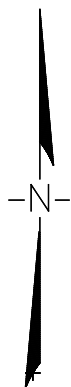
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SUBURB	

DATE	5-09-22
JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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Plan No: Tests 3 A3



Ripley Road

1001

Notes & Disclaimers
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Amendments		Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road, Bellevue Soil Tests
Street Address	
RP Description	

Level Datum	AHD
Origin	
LG	
Azimuth	North
Contour Interval:	
LGA	SUBURB

DATE	5-09-22
JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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 Fax: (02) 6671 2350
 web: seecivil.com.au

Plan No: **Tests 4** **A3**



Notes & Disclaimers

The information shown on this plan has been collated from field survey data. No design work has been carried out by SEE Civil. The plan is merely the location of improvements designed by others. All construction has been carried out to the design provided by the client and the client's representative. Underground cables and services must be specifically located by appropriately qualified service locators prior to the commencement of any excavation works. The title boundaries shown hereon were not marked at the time of survey and have been determined by plan dimensions only and not by field survey.

A	Amendments	Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road, Bellevue Soil Tests
Street Address	
RP Description	

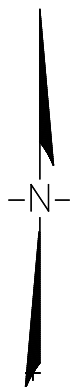
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Origin	
LGA	

Azimuth	North
Contour Interval:	
SUBURB	

DATE	5-09-22
JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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Phone: (02) 6671 2300
Fax: (02) 6671 2350
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Notes & Disclaimers

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A	Amendments	Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road, Bellevue Soil Tests
Street Address	
RP Description	

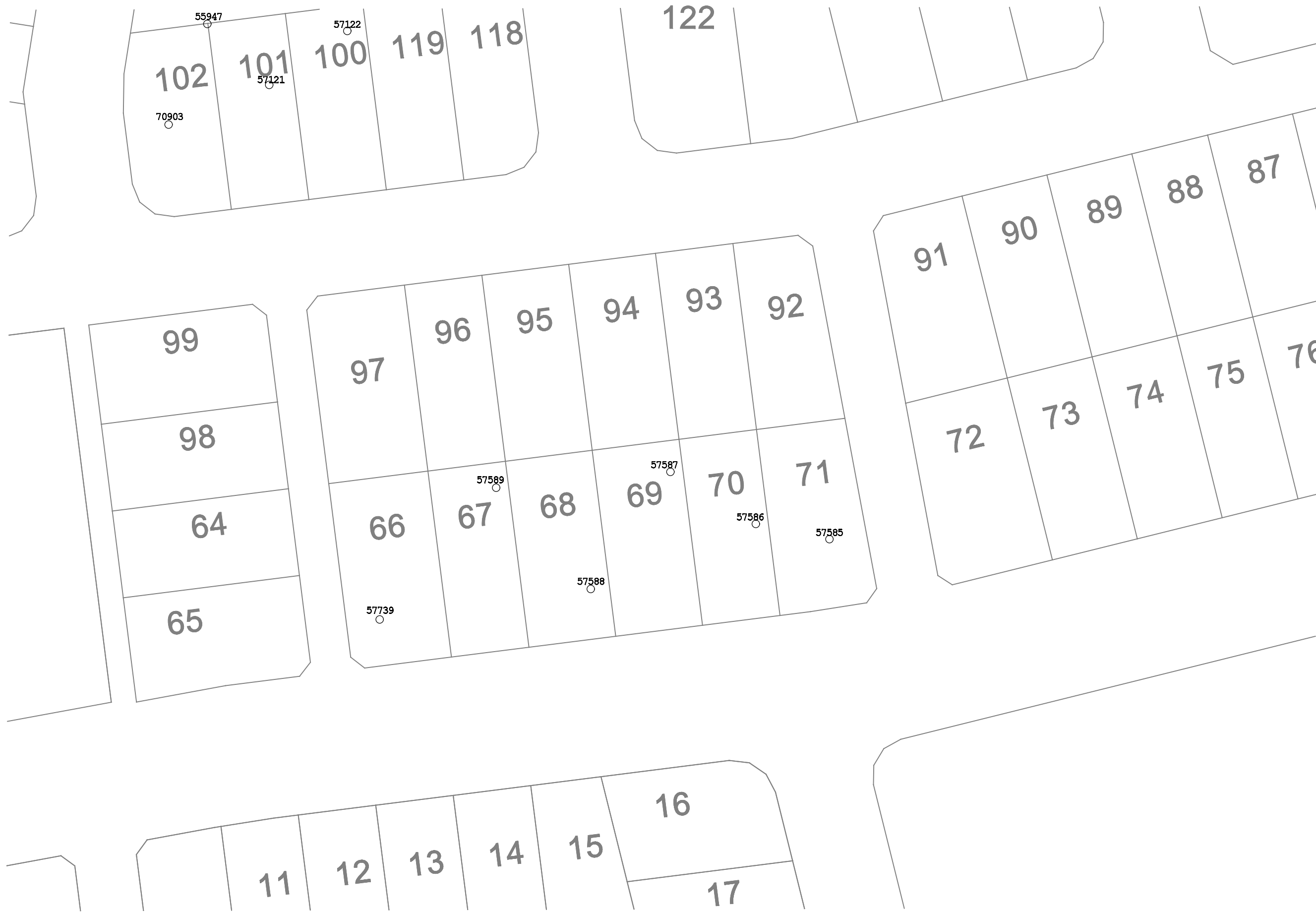
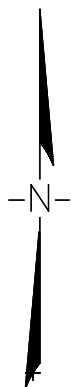
Level Datum	AHD
Origin	
LGA	

Azimuth	North
Contour Interval:	
SUBURB	

DATE	5-09-22
JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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A	Amendments	Date
No	Amendments & Additions	Date

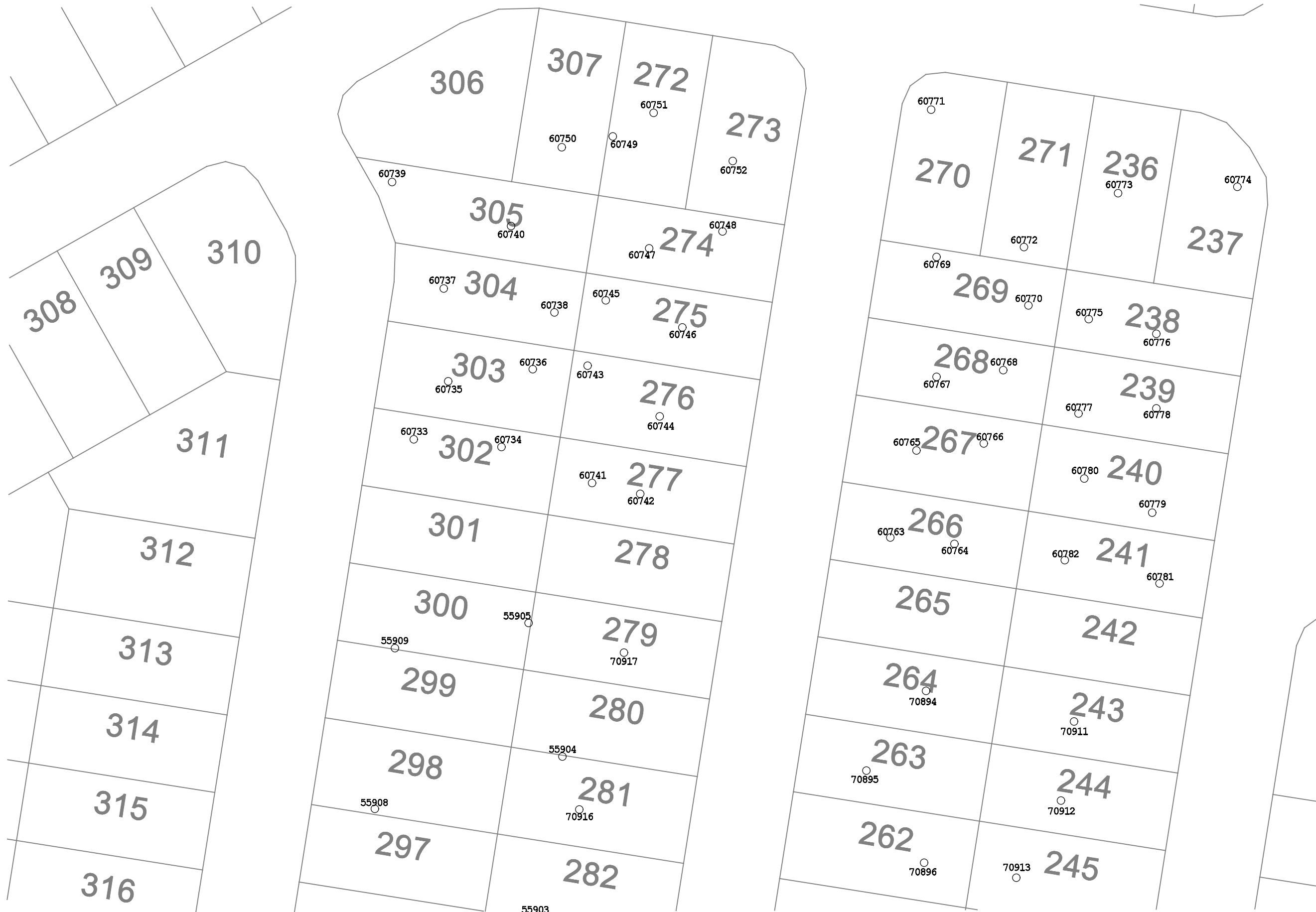
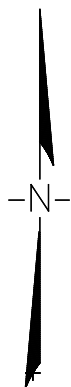
Client	Peak Urban
Title	Ripley Road, Bellevue Soil Tests
Street Address	
RP Description	

Level Datum	AHD
Azimuth	North
Origin	
Contour Interval:	
LGA	SUBURB

DATE	5-09-22
JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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Amendments		Date
A	Amendments & Additions	Date

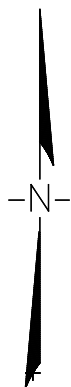
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 Title: **Ripley Road, Bellevue Soil Tests**
 Street Address: _____
 RP Description: _____

Level Datum: **AHD**
 Azimuth: **North**
 Origin: _____
 Contour Interval: _____
 LGA: _____
 SUBURB: _____

DATE: **5-09-22**
 JOB NO: **J966**
 SURVEYED: **BJC**
 CHECKED: _____
 QT: _____
 Scale: **1:600**



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 Plan No: **Tests 8 A3**



Notes & Disclaimers

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A	Amendments	Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road, Bellevue Soil Tests
Street Address	
RP Description	

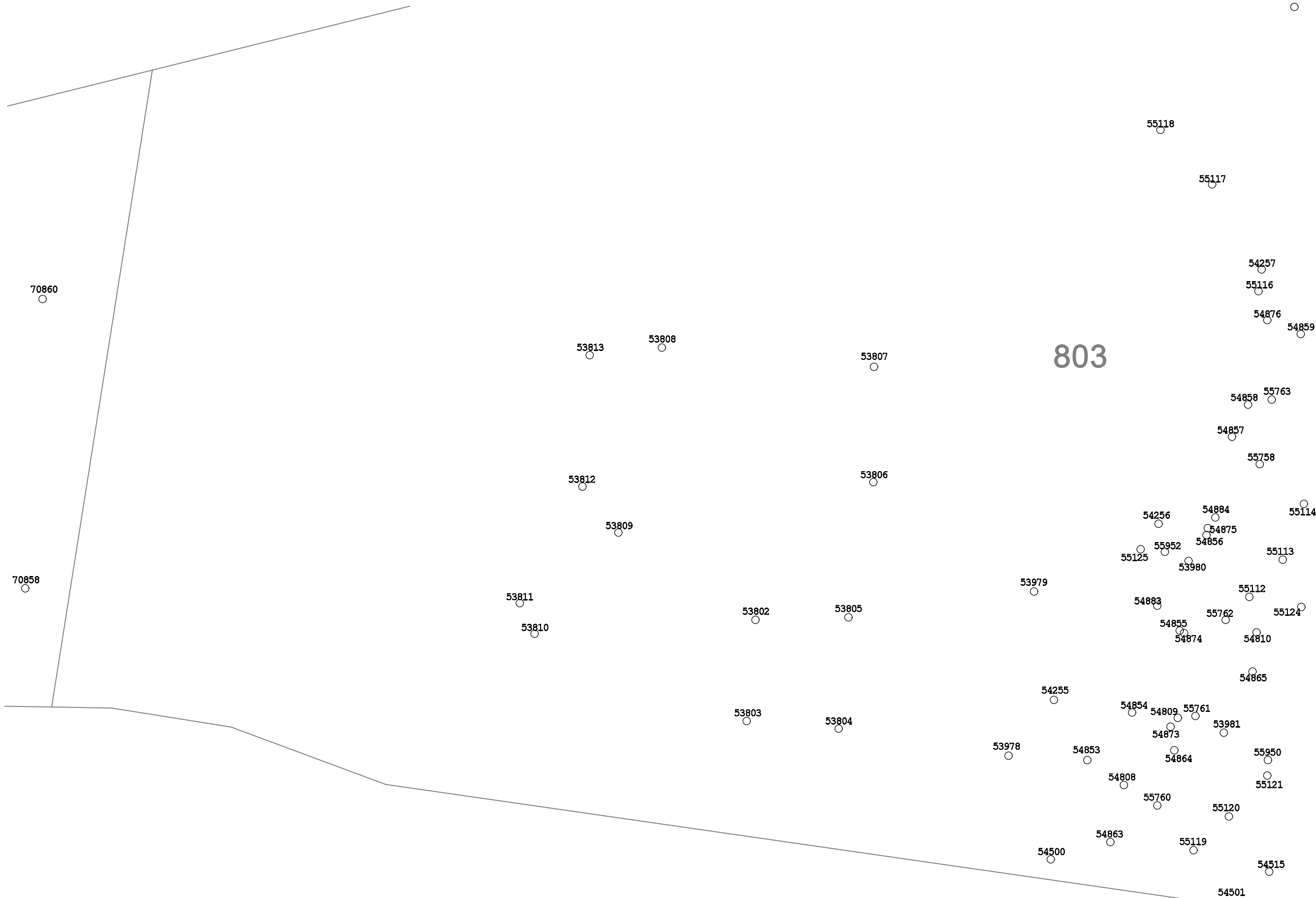
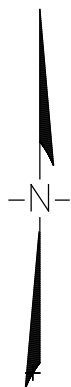
Level Datum	AHD
Origin	
LGA	

Azimuth	North
Contour Interval:	
SUBURB	

DATE	5-09-22
JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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A	Amendments	Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road, Bellevue Soil Tests
Street Address	
RP Description	

Level Datum	AHD
Origin	
LGA	SUBURB

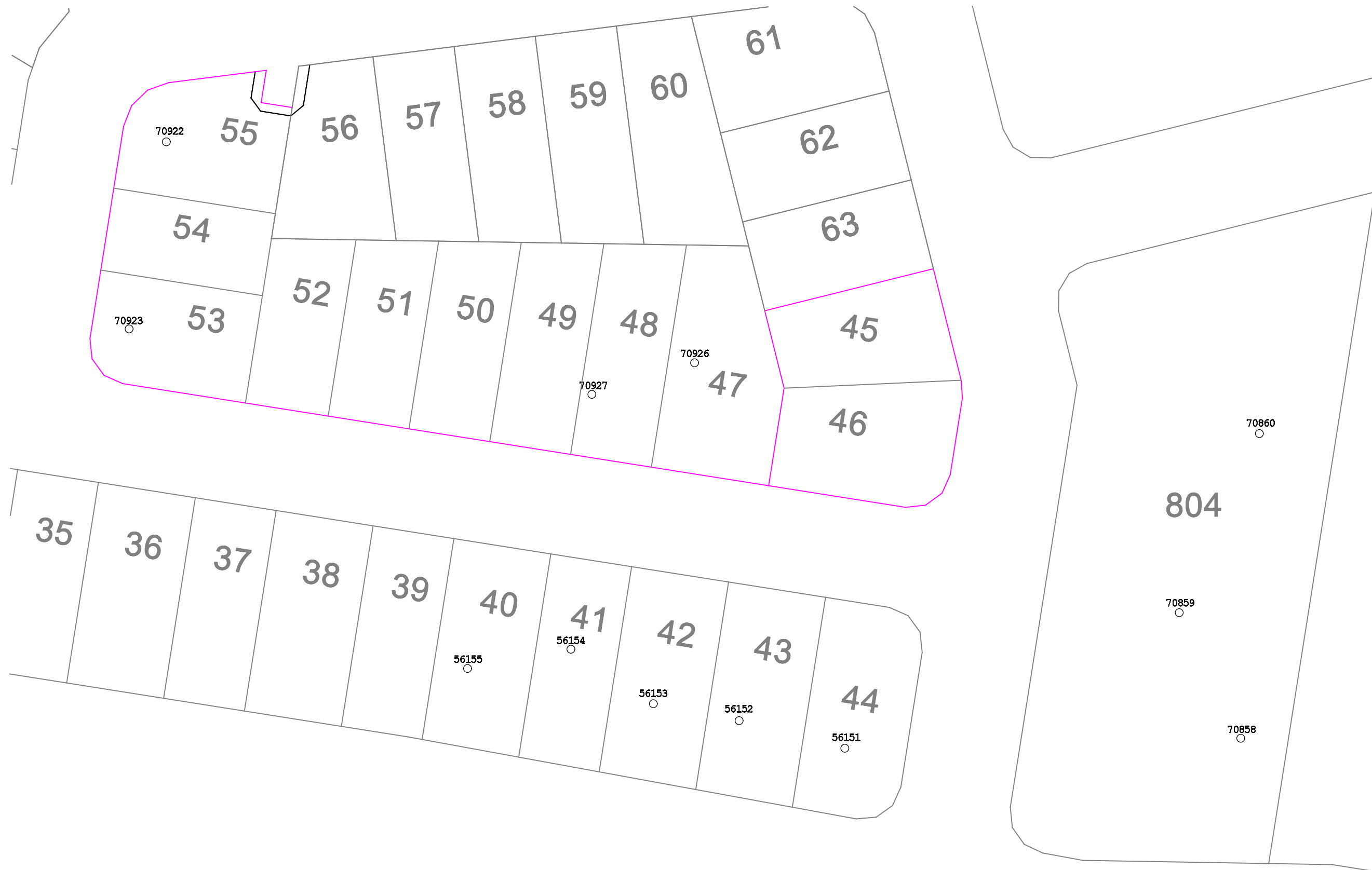
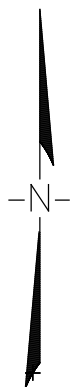
Azimuth	North
Contour Interval:	

DATE	5-09-22
JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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Plan No: Tests 11 A3



Notes & Disclaimers

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A	Amendments	Date
No	Amendments & Additions	Date

Client	Peak Urban
Title	Ripley Road , Bellevue Soil Tests
Street Address	
RP Description	

Level Datum	AHD
Origin	
LGA	

Azimuth	North
Contour Interval:	
SUBURB	

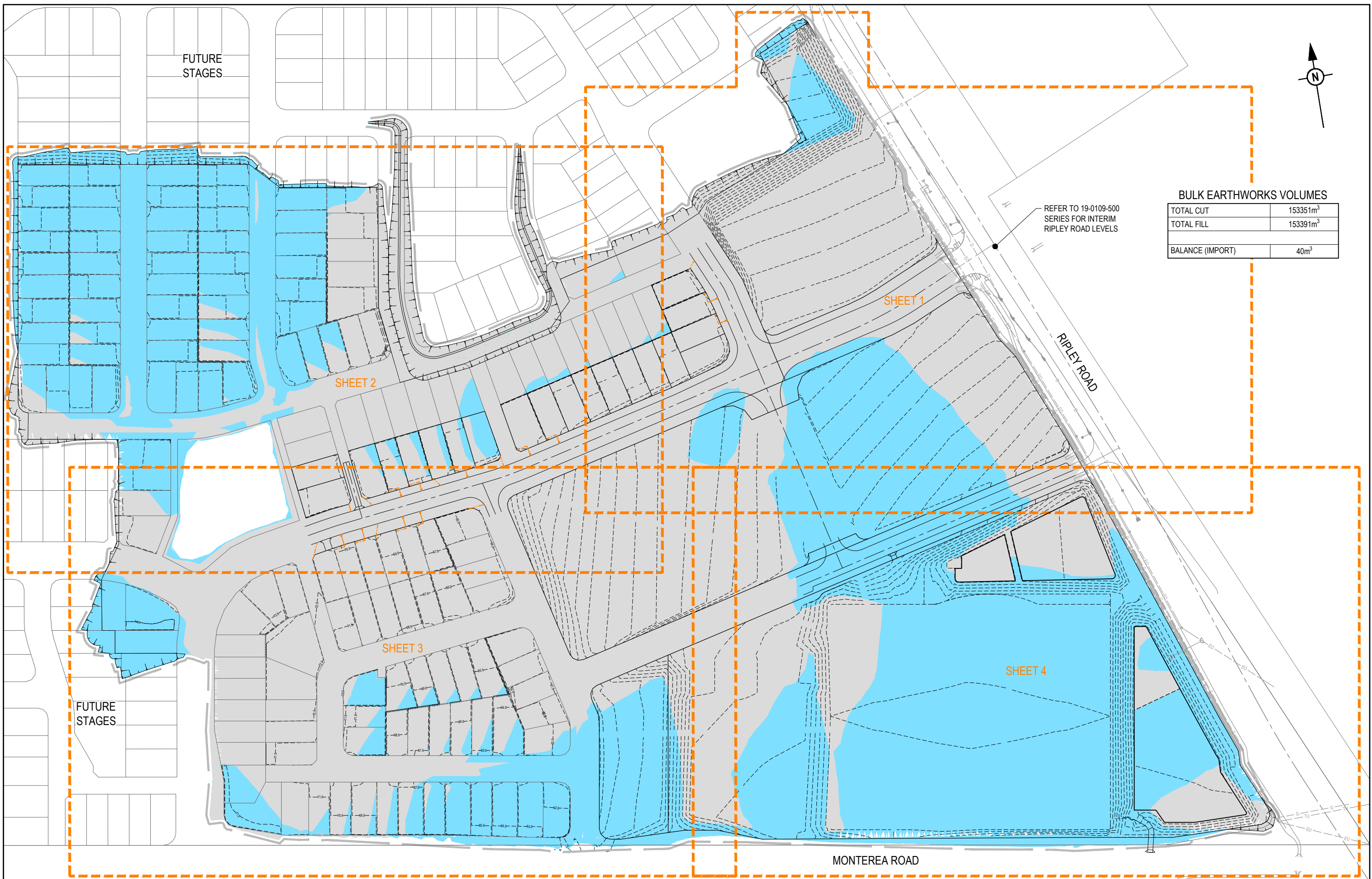
DATE	5-09-22
JOB NO	J966
TBC	
SURVEYED	BJC
CHECKED	
QT	
Scale	1:600



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Appendix B

Bulk Earthworks Drawings



BULK EARTHWORKS VOLUMES

TOTAL CUT	153351m ³
TOTAL FILL	153391m ³
BALANCE (IMPORT)	40m ³

REFER TO 19-0109-500 SERIES FOR INTERIM RIPLEY ROAD LEVELS

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	11.08.21	BF	JW	ISSUED FOR CONSTRUCTION

DRAWN	STATUS
JW	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
BF	SCOTT THOMAS RPEQ 4618
	<i>S. Thomas</i>
	FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN
DEVELOPMENT ENGINEERS • ADVISORS
ENQUIRIES@PEAKURBAN.COM.AU

SCALE
1:1000 10 0 10 20 30 40 50 A1
1:2000

CLIENT
HB DONCASTER PTY. LTD.
ASSOCIATED CONSULTANT
SAUNDERS HAVILL GROUP PH: 1300 123 744

PROJECT NAME
357 RIPLEY ROAD - STAGE 1
357 RIPLEY ROAD, RIPLEY

DRAWING TITLE		
OVERALL BULK EARTHWORKS LAYOUT PLAN		
PROJECT No.	DRAWING No.	REVISION
19-0109	102	A

Appendix C

Test Reports



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	2
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	26/08/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	53624	53625	53626	53627	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	17/08/2021	17/08/2021	17/08/2021	17/08/2021	-
Time - Field Tested:	1000	1010	1020	1030	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8336.0	E:8327.5	E:8329.6	E:8347.5	-
Position/Offset/Northing:	(m) N:40184.6	N:40197.4	N:40206.1	N:40159.2	-
Level/Layer/R.L.	RL:46.3	RL:46.8	RL:46.6	RL:45.1	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 2.08	2.07	2.08	2.05	-
Field Dry Density:	(t/m ³) 1.86	1.89	1.88	1.82	-
Retained Oversize (Wet basis):	(%) 5% on 19.0mm	3% on 19.0mm	3% on 19.0mm	3% on 19.0mm	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%) 11.5	9.0	10.5	12.5	-
Adjusted Lab OMC:	(%) 12.5	11.1	11.8	12.7	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³) 2.10	2.06	2.05	2.11	-
Adjusted Lab Max CWD:	(t/m ³) 2.11	2.07	2.06	2.12	-
Compactive Effort:	Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%) 1.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	At OMC	-
Moisture Ratio	(%) 93.0	81.5	88.0	99.0	-
Density Ratio	(%) 98.5	100.0	101.0	97.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	4	99.18	1.75	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.	
	Accreditation number: 19902	



ASCT Brisbane South
 Postal: PO Box 1232 Park Ridge QLD 4125
 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
 Telephone: 0437 776 582
 E-Mail: brisbane.south@asct.com.au
 Mobile: 0437 776 582
 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 3

Client:	See Civil Pty Ltd	Report No:	3
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	27/08/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	53789	53790	53791	53792	53793
Field Test Number:	-	-	-	-	-
Date - Field Tested:	18/08/2021	18/08/2021	18/08/2021	18/08/2021	18/08/2021
Time - Field Tested:	0955	1000	1005	1010	1015
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8351.6	E:8343.4	E:8337.3	E:8329.9	E:8322.6
Position/Offset/Northing:	(m) N:40143.9	N:40159.8	N:40175.0	N:40190.4	N:40204.9
Level/Layer/R.L.	RL:48.2	RL:48.0	RL:48.2	RL:47.8	RL:47.3
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.11	2.04	2.12	2.12	2.05
Field Dry Density:	(t/m ³)	1.92	1.86	1.90	1.90	1.83
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	3% on 19.0mm	5% on 19.0mm	3% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	10.0	11.5	11.5	12.0
Adjusted Lab OMC:	(%)	11.7	11.7	12.7	13.0	13.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.13	2.16	2.15	2.12
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.13	2.16	2.15	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC
Moisture Ratio	(%)	84.0	87.0	90.5	89.5	90.0
Density Ratio	(%)	100.5	96.0	98.0	98.5	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.4	13	97.91	1.52	0.355
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit
 Approved Signatory



ASCT Brisbane South
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 A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)		Page:	2 of 3
Client:	See Civil Pty Ltd	Report No:	3
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	27/08/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location					
	53794	53795	53796	53797	53798
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	18/08/2021	18/08/2021	18/08/2021	18/08/2021	18/08/2021
Time - Field Tested:	1020	1025	1035	1040	1045
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8338.4	E:8334.8	E:8331.9	E:8325.1	E:8314.9
Position/Offset/Northing:	(m) N:40146.2	N:40155.1	N:40164.0	N:40176.6	N:40203.7
Level/Layer/R.L.	RL:47.2	RL:48.1	RL:47.8	RL:47.0	RL:48.1
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results						
Field Wet Density:	(t/m ³)	2.08	2.04	2.12	2.04	2.18
Field Dry Density:	(t/m ³)	1.88	1.84	1.90	1.82	1.96
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	3% on 19.0mm	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.0	11.0	11.5	12.0	11.5
Adjusted Lab OMC:	(%)	12.5	12.2	13.2	13.8	13.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.12	2.16	2.14	2.19
Adjusted Lab Max CWD:	(t/m ³)	2.13	2.12	2.16	2.14	2.19
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture						
Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	86.0	88.0	89.0	88.5	87.5
Density Ratio	(%)	98.0	96.0	98.0	95.5	99.5

<i>Specified Density Ratio</i>		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
<i>Minimum (%)</i>	95	97.4	13	97.91	1.52	0.355
<i>Maximum (%)</i>		-	-	-	-	-
<i>Specified Moisture Ratio</i>		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
<i>Minimum (%)</i>		-	-	-	-	-
<i>Maximum (%)</i>		-	-	-	-	-

Test Methods Used.
 AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.
 Laboratory testing 25/08/2021

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 3 of 3

Client:	See Civil Pty Ltd	Report No:	3
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	27/08/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	53799	53800	53801	-	-
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	18/08/2021	18/08/2021	18/08/2021	-	-
Time - Field Tested:	1050	1055	1100	-	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8307.9	E:8308.3	E:8321.3	-	-
Position/Offset/Northing:	(m) N:40222.8	N:40203.4	N:40168.5	-	-
Level/Layer/R.L.	RL:48.6	RL:48.1	RL:48.2	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.18	2.15	2.13	-	-
Field Dry Density:	(t/m ³)	1.96	1.94	1.92	-	-
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	3% on 19.0mm	2% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	11.0	10.5	11.0	-	-
Adjusted Lab OMC:	(%)	12.7	12.5	12.3	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.20	2.17	2.16	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.20	2.17	2.16	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	-	-
Moisture Ratio	(%)	87.5	86.0	88.5	-	-
Density Ratio	(%)	99.0	99.0	98.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.4	13	97.91	1.52	0.355
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 3

Client:	See Civil Pty Ltd	Report No:	4
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	30/08/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	53802	53803	53804	53805	53806
Field Test Number:	-	-	-	-	-
Date - Field Tested:	19/08/2021	19/08/2021	19/08/2021	19/08/2021	19/08/2021
Time - Field Tested:	0945	0950	0955	1000	1005
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8123.5	E:8122.1	E:8136.9	E:8138.5	E:8142.5
Position/Offset/Northing:	(m) N:40141.8	N:40125.5	N:40124.3	N:40142.2	N:40164.0
Level/Layer/R.L.	RL:52.2	RL:52.0	RL:52.3	RL:52.2	RL:52.4
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.03	2.14	2.11	2.11	2.14
Field Dry Density:	(t/m ³)	1.86	1.91	1.93	1.87	1.96
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	12.5	9.5	12.5	9.0
Adjusted Lab OMC:	(%)	11.0	11.7	11.1	11.7	11.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.11	2.14	2.14	2.11	2.13
Adjusted Lab Max CWD:	(t/m ³)	2.11	2.14	2.14	2.12	2.13
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	0.5% Wetter than OMC	2% Drier than OMC	1% Wetter than OMC	2% Drier than OMC
Moisture Ratio	(%)	80.0	106.0	84.0	107.5	82.5
Density Ratio	(%)	96.0	100.0	98.5	99.5	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.7	12	99.26	1.62	0.370
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf)		Page:	2 of 3
Client:	See Civil Pty Ltd	Report No:	4
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	30/08/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location					
	53807	53808	53809	53810	53811
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	19/08/2021	19/08/2021	19/08/2021	19/08/2021	19/08/2021
Time - Field Tested:	1010	1015	1020	1025	1030
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8142.6	E:8108.4	E:8101.4	E:8087.9	E:8085.5
Position/Offset/Northing:	(m) N:40182.6	N:40185.7	N:40155.9	N:40139.6	N:40144.5
Level/Layer/R.L.	RL:52.5	RL:54.1	RL:54.0	RL:54.8	RL:54.9
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results						
Field Wet Density:	(t/m ³)	2.19	2.10	2.13	2.18	2.10
Field Dry Density:	(t/m ³)	2.00	1.91	1.93	1.93	1.91
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	0% on 19.0mm	1% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	10.0	10.5	12.5	10.0
Adjusted Lab OMC:	(%)	10.9	11.8	12.4	11.9	12.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.13	2.15	2.16	2.11
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.14	2.15	2.16	2.11
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture						
Moisture Variation	(%)	1.5% Drier than OMC	2% Drier than OMC	2% Drier than OMC	1% Wetter than OMC	2% Drier than OMC
Moisture Ratio	(%)	85.0	85.0	84.0	106.5	83.0
Density Ratio	(%)	101.5	98.0	99.0	100.5	99.5

<i>Specified Density Ratio</i>		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
<i>Minimum (%)</i>	95	98.7	12	99.26	1.62	0.370
<i>Maximum (%)</i>		-	-	-	-	-
<i>Specified Moisture Ratio</i>		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
<i>Minimum (%)</i>		-	-	-	-	-
<i>Maximum (%)</i>		-	-	-	-	-

Test Methods Used.
 AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.
 Laboratory testing 25/08/2021

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 3 of 3

Client:	See Civil Pty Ltd	Report No:	4
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	30/08/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:		53812	53813	-	-	-
Field Test Number:		-	-	-	-	-
Date - Field Tested:		19/08/2021	19/08/2021	-	-	-
Time - Field Tested:		1035	1040	-	-	-
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E:8095.6	E:8096.8	-	-	-
Position/Offset/Northing:	(m)	N:40163.3	N:40184.5	-	-	-
Level/Layer/R.L.		RL:54.7	RL:55.3	-	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.06	2.15	-	-	-
Field Dry Density:	(t/m ³)	1.84	1.95	-	-	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	1% on 19.0mm	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-	-
Field Moisture Content:	(%)	12.0	10.0	-	-	-
Adjusted Lab OMC:	(%)	12.8	11.6	-	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.14	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.15	-	-	-
Compactive Effort:		Standard	Standard	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	1% Drier than OMC	1.5% Drier than OMC	-	-	-
Moisture Ratio	(%)	93.0	87.5	-	-	-
Density Ratio	(%)	97.0	100.5	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.7	12	99.26	1.62	0.370
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	5
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	31/08/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	53957	53958	53959	53960	53961
Field Test Number:	-	-	-	-	-
Date - Field Tested:	20/08/2021	20/08/2021	20/08/2021	20/08/2021	20/08/2021
Time - Field Tested:	1000	1005	1010	1015	1020
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8224.7	E:8242.0	E:8276.3	E:8277.9	E:8276.8
Position/Offset/Northing:	(m) N:40188.1	N:40199.3	N:40203.1	N:40188.8	N:40169.1
Level/Layer/R.L.	RL:47.5	RL:47.9	RL:48.0	RL:48.1	RL:47.6
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.10	2.11	2.12	2.07	2.06
Field Dry Density:	(t/m ³)	1.92	1.87	1.93	1.88	1.85
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	1% on 19.0mm	4% on 19.0mm	2% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	13.0	10.0	10.0	11.5
Adjusted Lab OMC:	(%)	11.5	12.5	11.6	11.4	11.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.13	2.16	2.15	2.10
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.13	2.17	2.16	2.11
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	0.5% Wetter than OMC	1.5% Drier than OMC	1.5% Drier than OMC	At OMC
Moisture Ratio	(%)	82.0	102.5	87.0	87.5	98.0
Density Ratio	(%)	97.5	99.0	98.0	96.0	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	10	97.76	1.27	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 28/08/2021 to 30/08/2021

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	5
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	31/08/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	53962	53963	53964	53965	53966
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	20/08/2021	20/08/2021	20/08/2021	20/08/2021	20/08/2021
Time - Field Tested:	1025	1030	1035	1040	1045
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8273.6	E:8272.9	E:8258.2	E:8257.2	E:8258.3
Position/Offset/Northing:	(m) N:40142.6	N:40118.5	N:40123.5	N:40144.1	N:40174.9
Level/Layer/R.L.	RL:47.5	RL:48.5	RL:48.3	RL:48.1	RL:48.0
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.14	2.11	2.18	2.05	2.08
Field Dry Density:	(t/m ³)	1.92	1.91	1.98	1.87	1.87
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	2% on 19.0mm	4% on 19.0mm	3% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	10.5	10.0	10.0	11.0
Adjusted Lab OMC:	(%)	11.7	11.9	11.7	11.5	12.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.18	2.15	2.17	2.12	2.16
Adjusted Lab Max CWD:	(t/m ³)	2.18	2.15	2.18	2.13	2.16
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	97.0	86.0	86.0	85.5	88.5
Density Ratio	(%)	98.0	98.0	100.0	96.5	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	10	97.76	1.27	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 28/08/2021 to 30/08/2021



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Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	6
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	1/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	53978	53979	53980	53981	53982
Field Test Number:	-	-	-	-	-
Date - Field Tested:	23/08/2021	23/08/2021	23/08/2021	23/08/2021	23/08/2021
Time - Field Tested:	0945	0950	0955	1000	1005
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8164.3	E:8168.4	E:8193.3	E:8199.0	E:8222.6
Position/Offset/Northing:	(m) N:40119.9	N:40146.4	N:40151.3	N:40123.6	N:40164.4
Level/Layer/R.L.	RL:49.8	RL:50.3	RL:49.2	RL:48.9	RL:48.5
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.19	2.14	2.20	2.12	2.18
Field Dry Density:	(t/m ³)	1.99	1.94	1.97	1.89	1.96
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	10.5	11.5	12.0	11.0
Adjusted Lab OMC:	(%)	11.8	11.7	11.8	12.0	12.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.16	2.15	2.15	2.14	2.17
Adjusted Lab Max CWD:	(t/m ³)	2.17	2.15	2.16	2.14	2.17
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC	At OMC	1.5% Drier than OMC
Moisture Ratio	(%)	86.0	88.0	97.0	99.0	87.0
Density Ratio	(%)	101.5	99.5	102.0	99.0	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.2	10	99.67	1.14	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 26/08/2021 to 31/08/2021

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	Accreditation number: 19902	



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	6
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	1/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	53983	53984	53985	53986	53987
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	23/08/2021	23/08/2021	23/08/2021	23/08/2021	23/08/2021
Time - Field Tested:	1010	1015	1020	1025	1030
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8264.9	E:8242.4	E:8243.7	E:8246.3	E:8235.2
Position/Offset/Northing:	(m) N:40208.1	N:40168.8	N:40143.8	N:40122.2	N:40109.5
Level/Layer/R.L.	RL:48.5	RL:48.3	RL:48.6	RL:48.5	RL:48.7
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.12	2.09	2.15	2.12	2.15
Field Dry Density:	(t/m ³)	1.93	1.90	1.91	1.93	1.92
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	2% on 19.0mm	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	10.5	12.5	10.0	12.0
Adjusted Lab OMC:	(%)	11.7	11.8	12.4	11.7	12.0
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.14	2.12	2.17	2.14	2.16
Adjusted Lab Max CWD:	(t/m ³)	2.14	2.13	2.17	2.14	2.17
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2% Drier than OMC	1.5% Drier than OMC	At OMC	1.5% Drier than OMC	At OMC
Moisture Ratio	(%)	84.0	88.0	102.0	87.0	102.0
Density Ratio	(%)	98.5	98.5	99.0	99.0	99.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.2	10	99.67	1.14	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 26/08/2021 to 31/08/2021



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	7
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	1/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	54255	54256	54257	54258	54259
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	25/08/2021	25/08/2021	25/08/2021	25/08/2021	25/08/2021
Time - Field Tested:	0945	0950	0955	1000	1005
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8171.6	E:8188.5	E:8205.1	E:8226.6	E:8264.6
Position/Offset/Northing:	(m) N:40128.9	N:40157.3	N:40198.3	N:40240.1	N:40222.7
Level/Layer/R.L.	RL:49.9	RL:49.8	RL:49.3	RL:49.7	RL:48.9
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.03	2.11	2.03	2.16	2.09
Field Dry Density:	(t/m ³)	1.87	1.92	1.86	1.98	1.92
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	2% on 19.0mm	6% on 19.0mm	4% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	10.0	9.0	9.0	9.0
Adjusted Lab OMC:	(%)	10.2	11.6	10.9	9.1	10.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.09	2.14	2.09	2.20	2.09
Adjusted Lab Max CWD:	(t/m ³)	2.11	2.15	2.11	2.21	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	At OMC	1.5% Drier than OMC
Moisture Ratio	(%)	83.0	87.0	82.0	101.0	87.0
Density Ratio	(%)	96.0	98.5	96.0	97.5	99.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.8	10	97.44	1.59	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	86.5	10	90.39	9.58	0.405
Maximum (%)	2	94.3	10	90.39	9.58	0.405

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 26/08/2021 to 31/08/2021



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Accreditation number: 19902

(Signature)

Approved By: A.Lenkeit
Approved Signatory


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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	7
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	1/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	54260	54261	54262	54263	54264
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	25/08/2021	25/08/2021	25/08/2021	25/08/2021	25/08/2021
Time - Field Tested:	1010	1015	1020	1025	1030
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8255.3	(m) E:8236.4	(m) E:8272.6	(m) E:8276.8	(m) E:8278.7
Position/Offset/Northing:	(m) N:40174.9	(m) N:40126.9	(m) N:40093.7	(m) N:40116.0	(m) N:40133.3
Level/Layer/R.L.	RL:48.9	RL:49.0	RL:48.5	RL:48.4	RL:47.9
Layer Depth:	(mm) -	(mm) -	(mm) -	(mm) -	(mm) -
Depth Tested:	(mm) 150	(mm) 150	(mm) 150	(mm) 150	(mm) 150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.08	2.11	2.12	2.09	2.14
Field Dry Density:	(t/m ³)	1.92	1.90	1.94	1.92	1.94
Retained Oversize (Wet basis):	(%)	6% on 19.0mm	3% on 19.0mm	4% on 19.0mm	1% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	10.5	9.5	9.0	10.0
Adjusted Lab OMC:	(%)	9.9	12.0	9.3	10.8	9.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.10	2.21	2.16	2.22
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.11	2.22	2.16	2.23
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

	(%)	1.5% Dryer than OMC	1.5% Dryer than OMC	At OMC	2% Dryer than OMC	1% Wetter than OMC
Moisture Variation	(%)	83.5	89.0	101.0	82.0	108.5
Moisture Ratio	(%)	98.5	100.0	95.5	97.0	96.0
Density Ratio	(%)					

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.8	10	97.44	1.59	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	86.5	10	90.39	9.58	0.405
Maximum (%)	2	94.3	10	90.39	9.58	0.405

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 26/08/2021 to 31/08/2021



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	10
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	10/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	54500	54501	54502	54503	54504
Field Test Number:	-	-	-	-	-
Date - Field Tested:	30/08/2021	30/08/2021	30/08/2021	30/08/2021	30/08/2021
Time - Field Tested:	0935	0940	0945	0950	0955
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8171.1	E:8200.4	E:8229.1	E:8275.6	E:8307.5
Position/Offset/Northing:	(m) N:40103.2	N:40096.6	N:40094.2	N:40083.7	N:40077.7
Level/Layer/R.L.	RL:50.3	RL:50.0	RL:49.7	RL:49.8	RL:49.9
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.11	2.08	2.19	2.08	2.07
Field Dry Density:	(t/m ³)	1.90	1.85	1.94	1.89	1.85
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	3% on 19.0mm	3% on 19.0mm	1% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	12.5	12.5	10.5	12.0
Adjusted Lab OMC:	(%)	12.9	12.6	12.1	11.6	13.0
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.12	2.19	2.14	2.13
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.13	2.20	2.14	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	0.5% Drier than OMC	0.5% Wetter than OMC	1.5% Drier than OMC	1% Drier than OMC
Moisture Ratio	(%)	88.5	97.5	104.5	88.5	90.5
Density Ratio	(%)	98.0	98.0	99.5	97.0	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.0	10	97.55	1.28	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 08/09/2021 to 09/09/2021



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 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	10
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	10/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	54505	54506	54507	54508	54509
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	30/08/2021	30/08/2021	30/08/2021	30/08/2021	30/08/2021
Time - Field Tested:	1000	1005	1010	1015	1020
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8281.4	E:8285.3	E:8288.9	E:8301.1	E:8290.5
Position/Offset/Northing:	(m) N:401268	N:40155.9	N:40185.4	N:40231.2	N:40227.2
Level/Layer/R.L.	RL:48.7	RL:48.6	RL:48.8	RL:51.0	RL:50.8
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.07	2.15	2.06	2.16
Field Dry Density:	(t/m ³)	1.91	1.84	1.91	1.86	1.93
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm	4% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	12.5	12.5	10.5	12.0
Adjusted Lab OMC:	(%)	12.5	11.6	11.9	12.0	13.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.16	2.16	2.17	2.13	2.18
Adjusted Lab Max CWD:	(t/m ³)	2.17	2.16	2.18	2.15	2.19
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1% Drier than OMC	0.5% Wetter than OMC	0.5% Wetter than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio		92.0	106.0	105.5	86.0	90.0
Density Ratio	(%)	98.5	95.5	98.5	95.5	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.0	10	97.55	1.28	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 08/09/2021 to 09/09/2021



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	11
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	10/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	54510	54511	54512	54513	54514
Field Test Number:	-	-	-	-	-
Date - Field Tested:	30/08/2021	30/08/2021	30/08/2021	30/08/2021	30/08/2021
Time - Field Tested:	1025	1030	1035	1040	1045
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8269.5	E:8245.9	E:8214.4	E:8301.2	E:8292.1
Position/Offset/Northing:	(m) N:40230.6	N:40234.6	N:40239.4	N:40071.9	N:40229.4
Level/Layer/R.L.	RL:50.7	RL:50.9	RL:50.8	RL:49.7	RL:49.9
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.19	2.19	2.10	2.19	2.18
Field Dry Density:	(t/m ³)	1.96	1.97	1.89	1.98	1.94
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	4% on 19.0mm	2% on 19.0mm	4% on 19.0mm	5% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	12.0	11.0	11.5	10.5	12.0
Adjusted Lab OMC:	(%)	11.3	12.5	12.6	12.3	11.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.19	2.22	2.16	2.24	2.20
Adjusted Lab Max CWD:	(t/m ³)	2.20	2.23	2.16	2.25	2.20
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Wetter than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	0.5% Wetter than OMC
Moisture Ratio	(%)	105.0	87.5	89.5	85.5	106.0
Density Ratio	(%)	99.5	98.0	97.0	97.5	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.9	9	97.53	1.40	0.427
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 08/09/2021

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	Accreditation number: 19902	



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	11
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	10/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Bulk Earthworks - Level 1	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	54515	54516	54517	54518	-
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	30/08/2021	30/08/2021	30/08/2021	30/08/2021	-
Time - Field Tested:	1050	1055	1100	1105	-
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	-	-	-	-	-
Location/Chainage/Easting:	(m) E:8206.3	E:8231.6	E:8283.6	E:8287.3	-
Position/Offset/Northing:	(m) N:40101.2	N:40092.1	N:40125.2	N:40157.8	-
Level/Layer/R.L.	RL:49.6	RL:49.4	RL:48.3	RL:48.1	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.19	2.11	2.09	2.19	-
Field Dry Density:	(t/m ³)	1.97	1.89	1.90	1.96	-
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	4% on 19.0mm	4% on 19.0mm	4% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	11.5	11.5	10.0	12.0	-
Adjusted Lab OMC:	(%)	11.6	13.3	12.0	13.3	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.23	2.21	2.18	2.25	-
Adjusted Lab Max CWD:	(t/m ³)	2.23	2.22	2.19	2.26	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	At OMC	1.5% Dryer than OMC	1.5% Dryer than OMC	1.5% Dryer than OMC	-
Moisture Ratio		100.0	88.0	85.5	89.0	-
Density Ratio	(%)	98.5	95.0	95.5	97.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.9	9	97.53	1.40	0.427
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 08/09/2021



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	12
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	54808	54809	54810	54811	54812
Field Test Number:	-	-	-	-	-
Date - Field Tested:	31/08/2021	31/08/2021	31/08/2021	31/08/2021	31/08/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting: (m)	E: 8182.9	E: 8191.6	E: 8204.3	E: 8211.9	E: 8221.0
Position/Offset/Northing: (m)	N: 40115.2	N: 40126.0	N: 40139.8	N: 40144.2	N: 40163.7
Level/Layer/R.L.	RL: 48.4	RL: 48.3	RL: 48.5	RL: 48.3	RL: 48.2
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.10	2.04	2.09	2.15	2.14
Field Dry Density: (t/m ³)	1.92	1.86	1.87	1.93	1.94
Retained Oversize (Wet basis): (%)	2% on 19.0mm	5% on 19.0mm	4% on 19.0mm	2% on 19.0mm	5% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	9.5	9.5	12.0	11.5	10.5
Adjusted Lab OMC: (%)	11.5	11.2	13.0	12.4	11.8
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.15	2.11	2.10	2.16	2.16
Adjusted Lab Max CWD: (t/m ³)	2.15	2.12	2.11	2.16	2.17
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC	1% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	84.5	85.5	91.5	93.0	87.0
Density Ratio (%)	97.5	96.5	99.0	99.5	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.3	9	97.78	1.09	0.427
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 07/09/2021 to 13/09/2021



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Accreditation number: 19902

Approved By: A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	12
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	54813	54814	54815	54816	-
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	31/08/2021	31/08/2021	31/08/2021	31/08/2021	-
Time - Field Tested:	AM	AM	AM	AM	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	-
Location/Chainage/Easting:	(m) E: 8228.0	E: 8234.1	E: 8243.7	E: 8250.0	-
Position/Offset/Northing:	(m) N: 40188.1	N: 40194.4	N: 40215.6	N: 40231.0	-
Level/Layer/R.L.	RL: 48.6	RL: 48.7	RL: 48.8	RL: 48.8	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.04	2.10	2.08	2.08	-
Field Dry Density:	(t/m ³)	1.82	1.86	1.85	1.90	-
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	2% on 19.0mm	2% on 19.0mm	4% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	12.0	13.0	12.5	9.5	-
Adjusted Lab OMC:	(%)	11.3	12.3	11.9	11.1	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.13	2.13	2.14	-
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.14	2.13	2.14	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	1% Wetter than OMC	0.5% Wetter than OMC	0.5% Wetter than OMC	1.5% Drier than OMC	-
Moisture Ratio	(%)	107.0	103.5	104.5	86.0	-
Density Ratio	(%)	96.0	98.0	97.5	97.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.3	9	97.78	1.09	0.427
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 07/09/2021 to 13/09/2021



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	13
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	54853	54854	54855	54856	54857
Field Test Number:	-	-	-	-	-
Date - Field Tested:	2/09/2021	2/09/2021	2/09/2021	2/09/2021	2/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting: (m)	E: 8177.0	E: 8184.2	E: 8191.9	E: 8196.2	E: 8200.3
Position/Offset/Northing: (m)	N: 40119.2	N: 40126.9	N: 40140.1	N: 40155.5	N: 40171.3
Level/Layer/R.L.	RL: 48.9	RL: 49.0	RL: 49.0	RL: 49.2	RL: 49.3
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.14	2.03	2.08	2.10	2.06
Field Dry Density: (t/m ³)	1.96	1.86	1.89	1.93	1.89
Retained Oversize (Wet basis): (%)	8% on 19.0mm	7% on 19.0mm	9% on 19.0mm	9% on 19.0mm	7% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	9.0	9.0	9.5	9.0	9.0
Adjusted Lab OMC: (%)	11.0	11.2	11.1	11.0	11.4
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.21	2.12	2.13	2.16	2.14
Adjusted Lab Max CWD: (t/m ³)	2.22	2.13	2.15	2.17	2.15
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	2% Drier than OMC
Moisture Ratio (%)	81.0	80.5	87.0	80.0	81.0
Density Ratio (%)	96.5	95.0	96.5	97.0	96.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.9	10	96.22	0.70	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/09/2021 to 10/09/2021



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Approved By: A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	13
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	54858	54859	54860	54861	54862
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	2/09/2021	2/09/2021	2/09/2021	2/09/2021	2/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting:	(m) E: 8202.9	E: 8211.4	E: 8219.6	E: 8230.0	E: 8239.4
Position/Offset/Northing:	(m) N: 40176.5	N: 40187.9	N: 40192.8	N: 40203.3	N: 40211.3
Level/Layer/R.L.	RL: 48.8	RL: 48.7	RL: 48.7	RL: 48.5	RL: 48.5
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.06	2.08	2.09	2.03	2.10
Field Dry Density:	(t/m ³)	1.89	1.88	1.92	1.85	1.90
Retained Oversize (Wet basis):	(%)	7% on 19.0mm	7% on 19.0mm	8% on 19.0mm	7% on 19.0mm	8% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.0	10.0	9.0	9.5	10.5
Adjusted Lab OMC:	(%)	11.0	12.1	11.1	11.2	11.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.13	2.15	2.10	2.14
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.14	2.17	2.12	2.16
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2% Drier than OMC	2% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	82.0	83.5	82.5	84.5	87.0
Density Ratio	(%)	95.5	97.0	96.5	95.5	97.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.9	10	96.22	0.70	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/09/2021 to 10/09/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	14
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	54863	54864	54865	54866	54867
Field Test Number:	-	-	-	-	-
Date - Field Tested:	2/09/2021	2/09/2021	2/09/2021	2/09/2021	2/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting: (m)	E:8180.7	E: 8191.0	E: 8203.6	E: 8215.9	E: 8222.0
Position/Offset/Northing: (m)	N: 40106.0	N: 40120.8	N: 40133.5	N: 40151.9	N: 40162.2
Level/Layer/R.L.	RL: 49.3	RL: 49.5	RL: 49.4	RL: 49.3	RL: 49.5
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.01	2.03	2.04	2.07	2.07
Field Dry Density: (t/m ³)	1.86	1.88	1.88	1.92	1.91
Retained Oversize (Wet basis): (%)	6% on 19.0mm	5% on 19.0mm	7% on 19.0mm	6% on 19.0mm	6% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	8.0	8.0	8.5	8.0	8.0
Adjusted Lab OMC: (%)	10.2	10.1	10.0	10.2	10.0
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.10	2.11	2.10	2.14	2.15
Adjusted Lab Max CWD: (t/m ³)	2.11	2.12	2.12	2.15	2.16
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	2% Drier than OMC
Moisture Ratio (%)	81.0	79.5	82.5	80.0	79.5
Density Ratio (%)	95.0	95.5	96.5	96.5	95.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.9	10	96.29	0.95	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/09/2021 to 10/09/2021



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Approved By: A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	14
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	54868	54869	54870	54871	54872
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	2/09/2021	2/09/2021	2/09/2021	2/09/2021	2/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting:	(m) E: 8236.1	E: 8240.7	E: 8252.2	E: 8267.9	E: 8279.4
Position/Offset/Northing:	(m) N: 40177.3	N: 40190.1	N: 40193.8	N: 40219.3	N: 40229.3
Level/Layer/R.L.	RL: 49.4	RL: 49.5	RL: 49.6	RL: 49.7	RL: 49.6
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.05	2.04	2.09	2.07	2.15
Field Dry Density:	(t/m ³)	1.89	1.88	1.93	1.91	1.99
Retained Oversize (Wet basis):	(%)	8% on 19.0mm	6% on 19.0mm	7% on 19.0mm	5% on 19.0mm	7% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.0	8.5	8.0	8.0	8.0
Adjusted Lab OMC:	(%)	10.2	10.1	10.2	10.0	9.8
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.10	2.13	2.15	2.18
Adjusted Lab Max CWD:	(t/m ³)	2.14	2.11	2.15	2.15	2.19
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC
Moisture Ratio		80.0	85.0	80.0	79.5	82.5
Density Ratio	(%)	95.5	97.0	97.0	96.0	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.9	10	96.29	0.95	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/09/2021 to 10/09/2021

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 3

Client:	See Civil Pty Ltd	Report No:	15
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	54873	54874	54875	54876	54877
Field Test Number:	-	-	-	-	-
Date - Field Tested:	3/09/2021	3/09/2021	3/09/2021	3/09/2021	3/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting: (m)	E: 8190.4	E: 8192.6	E: 8196.4	E: 8206.0	E: 8215.9
Position/Offset/Northing: (m)	N: 40124.6	N: 40139.7	N: 40156.6	N: 40190.1	N: 40209.0
Level/Layer/R.L.	RL: 49.8	RL: 49.7	RL: 49.8	RL: 49.6	RL: 49.7
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.11	2.06	2.03	2.06	2.15
Field Dry Density: (t/m ³)	1.91	1.88	1.82	1.84	1.91
Retained Oversize (Wet basis): (%)	3% on 19.0mm	6% on 19.0mm	6% on 19.0mm	4% on 19.0mm	5% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.5	9.5	11.5	12.0	12.5
Adjusted Lab OMC: (%)	11.8	11.0	10.9	11.3	11.6
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.16	2.14	2.11	2.13	2.20
Adjusted Lab Max CWD: (t/m ³)	2.17	2.15	2.13	2.13	2.21
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	1.5% Drier than OMC	0.5% Wetter than OMC	1% Wetter than OMC	1% Wetter than OMC
Moisture Ratio (%)	87.0	87.0	104.0	107.0	109.5
Density Ratio (%)	97.5	96.0	95.5	96.5	97.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.6	15	96.93	1.09	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 3

Client:	See Civil Pty Ltd	Report No:	15
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	54878	54879	54880	54881	54882
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	3/09/2021	3/09/2021	3/09/2021	3/09/2021	3/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting:	(m) E: 8218.1	E: 8220.9	E: 8225.5	E: 8229.3	E: 8933.4
Position/Offset/Northing:	(m) N: 40121.0	N: 40135.0	N: 40150.8	N: 40182.4	N: 40198.0
Level/Layer/R.L.	RL: 49.9	RL: 49.9	RL: 49.8	RL: 49.7	RL: 49.9
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.10	2.08	2.14	2.05	2.03
Field Dry Density:	(t/m ³)	1.87	1.87	1.94	1.84	1.82
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	3% on 19.0mm	6% on 19.0mm	7% on 19.0mm	7% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	12.5	11.0	10.0	11.0	11.5
Adjusted Lab OMC:	(%)	11.9	12.1	11.5	12.4	12.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.17	2.14	2.17	2.09	2.08
Adjusted Lab Max CWD:	(t/m ³)	2.18	2.15	2.19	2.11	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Wetter than OMC	1% Drier than OMC	1% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	104.0	91.5	88.5	89.5	88.0
Density Ratio	(%)	96.5	97.0	98.0	97.0	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.6	15	96.93	1.09	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 3 of 3

Client:	See Civil Pty Ltd	Report No:	15
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	54883	54884	54885	54886	54887
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	3/09/2021	3/09/2021	3/09/2021	3/09/2021	3/09/2021
Time - Field Tested:	PM	PM	PM	PM	PM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting:	(m) E: 8188.3	E: 8197.6	E: 8222.7	E: 8229.6	E: 8235.6
Position/Offset/Northing:	(m) N: 40144.1	N: 40158.3	N: 40190.0	N: 40203.4	N: 40224.0
Level/Layer/R.L.	RL: 49.9	RL: 50.0	RL: 50.1	RL: 49.9	RL: 50.0
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.04	2.10	2.08	2.06	2.08
Field Dry Density:	(t/m ³)	1.86	1.88	1.87	1.88	1.86
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	7% on 19.0mm	6% on 19.0mm	5% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	12.0	11.0	9.5	11.5
Adjusted Lab OMC:	(%)	11.2	11.2	12.3	10.8	10.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.09	2.13	2.15	2.11
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.11	2.14	2.16	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

	1.5% Drier than OMC	0.5% Wetter than OMC	1% Drier than OMC	1.5% Drier than OMC	0.5% Wetter than OMC
Moisture Variation (%)					
Moisture Ratio (%)	86.5	105.0	90.0	87.0	105.0
Density Ratio (%)	96.0	99.5	97.0	95.5	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.6	15	96.93	1.09	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 3

Client:	See Civil Pty Ltd	Report No:	17
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	16/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	-

Sample Information & Location

Sample Number:	55112	55113	55114	55115	55116
Field Test Number:	-	-	-	-	-
Date - Field Tested:	7/09/2021	7/09/2021	7/09/2021	7/09/2021	7/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	Imported - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting: (m)	E: 8203.1	E: 8208.5	E: 8211.9	E: 8218.4	E: 8204.6
Position/Offset/Northing: (m)	N: 40145.5	N: 40151.5	N: 40160.5	N: 40182.9	N: 40194.8
Level/Layer/R.L.	RL: 51.1	RL: 51.0	RL: 51.2	RL: 51.1	RL: 51.4
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.03	2.08	2.07	2.04	2.09
Field Dry Density: (t/m ³)	1.81	1.86	1.86	1.82	1.87
Retained Oversize (Wet basis): (%)	3% on 19.0mm	3% on 19.0mm	3% on 19.0mm	4% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	12.0	11.5	11.5	12.0	12.0
Adjusted Lab OMC: (%)	13.2	11.7	11.7	11.8	11.5
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.09	2.13	2.12	2.10	2.12
Adjusted Lab Max CWD: (t/m ³)	2.09	2.14	2.13	2.10	2.13
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	At OMC	At OMC	0.5% Wetter than OMC	0.5% Wetter than OMC
Moisture Ratio (%)	92.5	100.0	98.0	104.0	105.0
Density Ratio (%)	97.0	97.5	97.5	97.0	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.7	14	98.00	0.97	0.342
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 13/09/2021 to 14/09/2021

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.	
	Accreditation number: 19902	



**AUSTRALIAN
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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 3

Client:	See Civil Pty Ltd	Report No:	17
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	16/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	-

Sample Information & Location

	55117	55118	55119	55120	55121
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	7/09/2021	7/09/2021	7/09/2021	7/09/2021	7/09/2021
Time - Field Tested:	AM	AM	PM	PM	PM
Material Source / Type:	Imported - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting:	(m) E: 8197.1	E: 8188.8	E: 8194.1	E: 8199.8	E: 8206.0
Position/Offset/Northing:	(m) N: 40212.0	N: 40220.8	N: 40104.7	N: 40110.1	N: 40116.7
Level/Layer/R.L.	RL: 51.5	RL: 51.4	RL: 51.6	RL: 51.6	RL: 51.6
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.05	2.12	2.09	2.08	2.06
Field Dry Density:	(t/m ³)	1.86	1.91	1.89	1.89	1.85
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	3% on 19.0mm	2% on 19.0mm	3% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	10.5	10.5	10.5	11.0
Adjusted Lab OMC:	(%)	12.0	12.3	12.4	11.7	12.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.09	2.11	2.10	2.12	2.09
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.12	2.10	2.13	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio		85.5	86.5	84.0	88.0	89.0
Density Ratio	(%)	98.0	100.0	99.0	98.0	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.7	14	98.00	0.97	0.342
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 13/09/2021 to 14/09/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 3 of 3

Client:	See Civil Pty Ltd	Report No:	17
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	16/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	-

Sample Information & Location

	55122	55123	55124	55125	-
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	7/09/2021	7/09/2021	7/09/2021	7/09/2021	-
Time - Field Tested:	PM	PM	PM	PM	-
Material Source / Type:	Imported - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	-
Location/Chainage/Easting:	(m) E: 8212.4	E: 8228.0	E: 8211.5	E: 8185.6	-
Position/Offset/Northing:	(m) N: 40127.3	N: 40138.8	N: 40143.9	N: 40153.2	-
Level/Layer/R.L.	RL: 51.7	RL: 51.9	RL: 51.8	RL: 51.8	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.05	2.04	2.08	2.11	-
Field Dry Density:	(t/m ³)	1.83	1.84	1.87	1.91	-
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	3% on 19.0mm	4% on 19.0mm	4% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	11.5	10.5	11.5	11.0	-
Adjusted Lab OMC:	(%)	11.9	12.0	12.4	12.5	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.09	2.11	2.12	-
Adjusted Lab Max CWD:	(t/m ³)	2.11	2.10	2.11	2.12	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	At OMC	1.5% Drier than OMC	1% Drier than OMC	1.5% Drier than OMC	-
Moisture Ratio	(%)	98.0	88.0	92.0	87.5	-
Density Ratio	(%)	97.0	97.0	98.5	99.5	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.7	14	98.00	0.97	0.342
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 13/09/2021 to 14/09/2021

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 3

Client:	See Civil Pty Ltd	Report No:	18
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	55126	55127	55128	55129	55130
Field Test Number:	-	-	-	-	-
Date - Field Tested:	8/09/2021	8/09/2021	8/09/2021	8/09/2021	8/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Embankment Fill				
Remarks / Notes:					
Control Line:	Road 2A	Road 2A	Road 2A	Road 2A	SE Fill Area
Location/Chainage/Easting: (m)	E: 8141.2	E: 8136.6	E: 8129.9	E: 8126.5	E: 8171.1
Position/Offset/Northing: (m)	N: 40290.6	N: 40299.5	N: 40334.1	N: 40361.8	N: 40303.9
Level/Layer/R.L.	Subgrade - 1.2m	Subgrade - 0.8m	Subgrade - 0.8m	Subgrade - 0.5m	RL: 51.7
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.05	2.12	2.10	2.08	2.06
Field Dry Density: (t/m ³)	1.91	1.97	1.96	1.93	1.91
Retained Oversize (Wet basis): (%)	3% on 19.0mm	4% on 19.0mm	4% on 19.0mm	2% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	7.5	7.5	7.5	7.5	7.5
Adjusted Lab OMC: (%)	9.2	9.4	9.5	9.0	9.1
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.10	2.11	2.11	2.10	2.09
Adjusted Lab Max CWD: (t/m ³)	2.11	2.13	2.12	2.11	2.10
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	2.0% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	82.5	78.5	78.5	84.5	84.5
Density Ratio (%)	97.5	99.5	99.0	98.5	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.2	12	98.51	0.71	0.370
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 15/09/2021



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Accreditation number: 19902

Approved By: A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 3

Client:	See Civil Pty Ltd	Report No:	18
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	55131	55132	55133	55134	55135
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	8/09/2021	8/09/2021	8/09/2021	8/09/2021	8/09/2021
Time - Field Tested:	PM	PM	PM	PM	PM
Material Source / Type:	On Site - Embankment Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting:	(m) E: 8220.4	E: 8184.8	E: 8146.7	E: 8210.4	E: 8236.0
Position/Offset/Northing:	(m) N: 40325.0	N: 40339.6	N: 40362.4	N: 40240.6	N: 40212.5
Level/Layer/R.L.	RL: 51.6	RL: 51.8	RL: 51.6	RL: 51.9	RL: 51.8
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.06	2.03	2.11	2.09	2.11
Field Dry Density:	(t/m ³)	1.90	1.83	1.90	1.89	1.91
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	4% on 19.0mm	4% on 19.0mm	3% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	11.0	11.0	10.5	10.5
Adjusted Lab OMC:	(%)	10.6	12.9	11.9	12.2	11.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.06	2.12	2.10	2.13
Adjusted Lab Max CWD:	(t/m ³)	2.11	2.07	2.13	2.11	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC
Moisture Ratio	(%)	81.5	86.0	90.5	86.5	89.5
Density Ratio	(%)	97.5	98.0	99.0	99.0	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.2	12	98.51	0.71	0.370
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 15/09/2021

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 3 of 3

Client:	See Civil Pty Ltd	Report No:	18
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	55136	55137	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	8/09/2021	8/09/2021	-	-	-
Time - Field Tested:	PM	PM	-	-	-
Material Source / Type:	On Site - Embankment Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	-	-	-
Location/Chainage/Easting:	(m) E: 8238.4	E: 8248.4	-	-	-
Position/Offset/Northing:	(m) N: 40100.0	N: 40133.7	-	-	-
Level/Layer/R.L.	RL: 52.1	RL: 52.0	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	(mm)	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.06	-	-	-
Field Dry Density:	(t/m ³)	1.98	1.85	-	-	-
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	5% on 19.0mm	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-	-
Field Moisture Content:	(%)	7.5	11.0	-	-	-
Adjusted Lab OMC:	(%)	9.4	12.7	-	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.06	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.14	2.08	-	-	-
Compactive Effort:		Standard	Standard	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2% Drier than OMC	1.5% Drier than OMC	-	-	-
Moisture Ratio	(%)	80.5	87.5	-	-	-
Density Ratio	(%)	99.5	99.0	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.2	12	98.51	0.71	0.370
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 15/09/2021

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	Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	20
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	21/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	55709	55710	55711	55712	55713
Field Test Number:	-	-	-	-	-
Date - Field Tested:	9/09/2021	9/09/2021	9/09/2021	9/09/2021	9/09/2021
Time - Field Tested:	AM	AM	AM	PM	PM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	NE Fill Area	NE Fill Area	NE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting: (m)	E: 8141.0	E: 8155.3	E: 8161.4	E: 8197.6	E: 8155.3
Position/Offset/Northing: (m)	N: 40574.2	N: 40553.9	N: 40526.8	N: 40337.4	N: 40361.2
Level/Layer/R.L.	FL	FL	RL: 64.4	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.09	2.12	2.11	2.08	2.08
Field Dry Density: (t/m ³)	1.87	1.90	1.90	1.86	1.87
Retained Oversize (Wet basis): (%)	5% on 19.0mm	3% on 19.0mm	5% on 19.0mm	3% on 19.0mm	5% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	12.0	11.0	11.5	12.0	11.5
Adjusted Lab OMC: (%)	10.9	11.3	11.7	11.1	10.9
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.16	2.17	2.19	2.17	2.19
Adjusted Lab Max CWD: (t/m ³)	2.17	2.18	2.19	2.18	2.20
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1% Wetter than OMC	At OMC	0.5% Drier than OMC	1% Wetter than OMC	0.5% Wetter than OMC
Moisture Ratio (%)	108.0	99.0	97.0	107.0	105.0
Density Ratio (%)	96.5	97.0	96.5	95.5	94.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.9	8	96.33	1.01	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 14/09/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: **A. Lenkeit**
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	20
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	21/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	55714	55715	55716	-	-
Sample Number:	55714	55715	55716	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	9/09/2021	9/09/2021	9/09/2021	-	-
Time - Field Tested:	PM	PM	PM	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	NE Fill Area	NE Fill Area	NE Fill Area	-	-
Location/Chainage/Easting:	(m) E: 8159.5	E: 8167.9	E: 8162.6	-	-
Position/Offset/Northing:	(m) N: 40520.0	N: 40533.7	N: 40539.7	-	-
Level/Layer/R.L.	RL: 62.9	RL: 63.6	RL: 64.0	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.09	2.15	2.14	-	-
Field Dry Density:	(t/m ³)	1.88	1.91	1.91	-	-
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	3% on 19.0mm	2% on 19.0mm	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	11.0	12.5	12.0	-	-
Adjusted Lab OMC:	(%)	10.9	11.7	11.5	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.18	2.20	2.20	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.19	2.20	2.20	-	-
Compactive Effort:		Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	At OMC	1% Wetter than OMC	0.5% Wetter than OMC	-	-
Moisture Ratio		99.0	107.5	106.0	-	-
Density Ratio	(%)	95.5	97.5	97.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.9	8	96.33	1.01	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 14/09/2021

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	Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	22
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	22/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	55717	55718	55719	55720	55721
Field Test Number:	-	-	-	-	-
Date - Field Tested:	10/09/2021	10/09/2021	10/09/2021	10/09/2021	10/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting: (m)	E: 8218.3	E: 8230.1	E: 8238.5	E: 8254.7	E: 8280.1
Position/Offset/Northing: (m)	N: 40224.0	N: 410196.5	N: 40199.3	N: 40163.0	N: 40142.0
Level/Layer/R.L.	RL: 52.0	RL: 52.2	RL: 51.9	RL: 51.7	RL: 51.5
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.13	2.06	2.13	2.14	2.14
Field Dry Density: (t/m ³)	1.91	1.84	1.91	1.92	1.91
Retained Oversize (Wet basis): (%)	2% on 19.0mm	5% on 19.0mm	1% on 19.0mm	3% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	11.5	12.5	11.5	11.0	12.0
Adjusted Lab OMC: (%)	11.4	11.7	11.3	11.4	11.1
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.18	2.16	2.19	2.20	2.18
Adjusted Lab Max CWD: (t/m ³)	2.18	2.17	2.19	2.20	2.19
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	At OMC	0.5% Wetter than OMC	At OMC	At OMC	0.5% Wetter than OMC
Moisture Ratio (%)	101.0	106.0	100.0	98.0	106.0
Density Ratio (%)	97.5	95.0	97.5	97.0	97.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.4	5	96.98	1.01	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 15/09/2021

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	Accreditation number: 19902	



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	24
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	24/09/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	55755	55756	55757	55758	55759
Field Test Number:	-	-	-	-	-
Date - Field Tested:	13/09/2021	13/09/2021	13/09/2021	13/09/2021	13/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting: (m)	E: 8246.4	E: 8229.6	E: 8215.5	E: 8204.8	E: 8260.1
Position/Offset/Northing: (m)	N: 40101.3	N: 40126.3	N: 40140.0	N: 40166.9	N: 40193.7
Level/Layer/R.L.	RL: 51.5	RL: 51.5	RL: 51.6	RL: 51.8	RL: 51.8
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.07	2.10	2.07	2.11	2.12
Field Dry Density: (t/m ³)	1.84	1.89	1.88	1.90	1.91
Retained Oversize (Wet basis): (%)	4% on 19.0mm	4% on 19.0mm	2% on 19.0mm	2% on 19.0mm	4% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	12.0	11.0	10.0	11.5	10.5
Adjusted Lab OMC: (%)	11.5	12.4	11.6	11.5	12.3
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.14	2.13	2.14	2.16	2.13
Adjusted Lab Max CWD: (t/m ³)	2.14	2.14	2.14	2.17	2.14
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	0.5% Wetter than OMC	1.0% Drier than OMC	1.5% Drier than OMC	At OMC	1.5% Drier than OMC
Moisture Ratio (%)	106.0	89.5	87.5	99.0	87.5
Density Ratio (%)	96.5	98.0	96.5	97.5	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.1	10	97.45	0.95	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 20/09/2021 to 21/09/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit
 Approved Signatory



**AUSTRALIAN
SOIL AND
CONCRETE
TESTING**

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 357 Ripley Rd, Ripley - Stage 1
 Component: Level 1 Fill
 Lot Number:

Report No: **24**
 Report Date: 24/09/2021
 Project No: 988
 Test Request:
 ITP/PCP:

Sample Information & Location

	55760	55761	55762	55763	55764
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	13/09/2021	13/09/2021	13/09/2021	13/09/2021	13/09/2021
Time - Field Tested:	PM	PM	PM	PM	PM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting:	(m) E: 8188.3	E: 8194.4	E: 8199.3	E: 8206.7	E: 8215.5
Position/Offset/Northing:	(m) N: 40111.9	N: 40126.3	N: 40141.8	N: 40177.3	N: 40184.7
Level/Layer/R.L.	RL: 51.7	RL: 51.9	RL: 51.8	RL: 51.9	RL: 52.1
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.06	2.09	2.11	2.11	2.08
Field Dry Density:	(t/m ³)	1.86	1.91	1.89	1.90	1.85
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm	3% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.0	9.5	11.0	11.5	12.0
Adjusted Lab OMC:	(%)	12.4	11.3	12.6	12.4	11.3
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.15	2.14	2.15	2.15
Adjusted Lab Max CWD:	(t/m ³)	2.13	2.15	2.14	2.15	2.16
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC	1% Wetter than OMC
Moisture Ratio	(%)	87.5	85.5	88.5	91.0	107.0
Density Ratio	(%)	97.0	97.5	98.5	98.0	96.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.1	10	97.45	0.95	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 20/09/2021 to 21/09/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	29
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	7/10/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	55901	55902	55903	55904	55905
Field Test Number:	-	-	-	-	-
Date - Field Tested:	16/09/2021	16/09/2021	16/09/2021	16/09/2021	16/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	NW Fill Area	NW Fill Area	NW Fill Area	NW Fill Area	NW Fill Area
Location/Chainage/Easting: (m)	Lots 286/237	Lots 284/285	Lots 282/283	Lots 280/281	Lots 279/300
Position/Offset/Northing: (m)	Common Boundary	Common Boundary	Common Boundary	Common Boundary	Common Boundary
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.11	2.08	2.09	2.10	2.08
Field Dry Density: (t/m ³)	1.90	1.86	1.88	1.87	1.89
Retained Oversize (Wet basis): (%)	2% on 19.0mm	3% on 19.0mm	4% on 19.0mm	3% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.5	12.0	11.0	12.0	10.5
Adjusted Lab OMC: (%)	11.9	11.9	12.7	12.7	12.0
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.16	2.15	2.16	2.14	2.15
Adjusted Lab Max CWD: (t/m ³)	2.16	2.15	2.16	2.14	2.15
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	At OMC	1.5% Drier than OMC	1% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	89.0	102.0	87.5	93.0	86.0
Density Ratio (%)	97.5	96.5	96.5	98.0	96.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.1	10	97.49	1.06	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 01/10/2021 to 02/10/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	29
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	7/10/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	55906	55907	55908	55909	55910
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	16/09/2021	16/09/2021	16/09/2021	16/09/2021	16/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	Onsite - General Fill				
Remarks / Notes:					
Control Line:	NW Fill Area	NW Fill Area	NW Fill Area	NW Fill Area	NW Fill Area
Location/Chainage/Easting:	(m) Lots 293/294	(m) Lots 295/296	(m) Lots 297/298	(m) Lots 299/300	(m) Lots 248/249
Position/Offset/Northing:	(m) Common Boundary	(m) Common Boundary	(m) Common Boundary	(m) Common Boundary	(m) Common Boundary
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth:	(mm) -	(mm) -	(mm) -	(mm) -	(mm) -
Depth Tested:	(mm) 150	(mm) 150	(mm) 150	(mm) 150	(mm) 150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.17	2.11	2.11	2.17	2.08
Field Dry Density:	(t/m ³)	1.95	1.88	1.90	1.97	1.87
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	3% on 19.0mm	2% on 19.0mm	1% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	12.5	11.0	10.0	11.5
Adjusted Lab OMC:	(%)	12.7	12.2	12.7	11.9	12.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.18	2.17	2.17	2.19	2.14
Adjusted Lab Max CWD:	(t/m ³)	2.18	2.17	2.18	2.19	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	At OMC	1.5% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC
Moisture Ratio	(%)	88.5	101.0	87.5	86.0	91.0
Density Ratio	(%)	100.0	97.0	97.0	99.0	97.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.1	10	97.49	1.06	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 01/10/2021 to 02/10/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



**AUSTRALIAN
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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	30
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	7/10/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	55943	55944	55945	55946	55947
Field Test Number:	-	-	-	-	-
Date - Field Tested:	17/09/2021	17/09/2021	17/09/2021	17/09/2021	17/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	NW Fill Area	NW Fill Area	NW Fill Area	NW Fill Area	NW Fill Area
Location/Chainage/Easting: (m)	Lots 251/252/253	Lots 254/255	Lots 287/288/289	Lots 290/291	Lots 101/102/103
Position/Offset/Northing: (m)	Common Boundary	Common Boundary	Common Boundary	Common Boundary	Common Boundary
Level/Layer/R.L.	FL -0.6m	FL -0.4m	FL -0.6m	FL -0.3m	FL -0.3m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.08	2.10	2.14	2.11	2.10
Field Dry Density: (t/m ³)	1.87	1.88	1.94	1.89	1.89
Retained Oversize (Wet basis): (%)	2% on 19.0mm	4% on 19.0mm	1% on 19.0mm	3% on 19.0mm	4% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	11.0	12.0	10.5	11.5	11.0
Adjusted Lab OMC: (%)	12.9	11.1	12.0	11.1	12.4
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.12	2.15	2.14	2.16	2.13
Adjusted Lab Max CWD: (t/m ³)	2.13	2.16	2.14	2.16	2.14
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	0.5% Wetter than OMC	1.5% Drier than OMC	0.5% Wetter than OMC	1% Drier than OMC
Moisture Ratio (%)	86.0	106.0	87.0	105.0	90.0
Density Ratio (%)	98.0	97.5	100.0	97.5	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.7	5	98.30	1.10	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 01/10/2021 to 02/10/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	31
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	7/10/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	55950	55951	55952	55953	55954
Field Test Number:	-	-	-	-	-
Date - Field Tested:	20/09/2021	20/09/2021	20/09/2021	20/09/2021	20/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area	SE Fill Area
Location/Chainage/Easting: (m)	E: 8206.1	E: 8250.0	E: 8189.5	E: 8236.9	E: 8280.2
Position/Offset/Northing: (m)	N: 40119.2	N: 40133.7	N: 40152.8	N: 40193.8	N: 40215.7
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.16	2.10	2.10	2.13	2.08
Field Dry Density: (t/m ³)	1.94	1.89	1.90	1.90	1.88
Retained Oversize (Wet basis): (%)	2% on 19.0mm	3% on 19.0mm	1% on 19.0mm	4% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	11.0	11.5	10.0	11.5	10.5
Adjusted Lab OMC: (%)	10.7	10.8	10.8	10.8	10.6
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.19	2.17	2.19	2.18	2.17
Adjusted Lab Max CWD: (t/m ³)	2.20	2.17	2.19	2.19	2.17
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	0.5% Wetter than OMC	1% Wetter than OMC	0.5% Drier than OMC	1% Wetter than OMC	At OMC
Moisture Ratio (%)	104.0	107.0	95.0	108.5	98.0
Density Ratio (%)	98.0	97.0	95.5	97.0	95.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.1	5	96.70	1.11	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 01/10/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

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 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	33
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	8/10/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	56151	56152	56153	56154	56155
Field Test Number:	-	-	-	-	-
Date - Field Tested:	22/09/2021	22/09/2021	22/09/2021	22/09/2021	22/09/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	South Fill Area	South Fill Area	South Fill Area	South Fill Area	South Fill Area
Location/Chainage/Easting: (m)	Lot 44	Lot 43	Lot 42	Lot 41	Lot 40
Position/Offset/Northing: (m)	15m N , 8m W	4m N , 3m W	10m N , 6m W	6m N , 11m W	16m N , 7m W
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.11	2.09	2.09	2.11	2.09
Field Dry Density: (t/m ³)	1.92	1.87	1.88	1.89	1.88
Retained Oversize (Wet basis): (%)	2% on 19.0mm	1% on 19.0mm	1% on 19.0mm	1% on 19.0mm	1% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.0	12.0	11.5	11.0	11.0
Adjusted Lab OMC: (%)	11.5	11.2	11.4	11.2	11.3
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.19	2.16	2.18	2.17	2.18
Adjusted Lab Max CWD: (t/m ³)	2.19	2.16	2.18	2.17	2.18
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Drier than OMC	0.5% Wetter than OMC	At OMC	0.5% Wetter than OMC	0.5% Drier than OMC
Moisture Ratio (%)	85.5	105.0	99.0	104.0	97.0
Density Ratio (%)	96.5	97.0	96.0	97.0	96.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.0	5	96.34	0.53	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 02/10/2021 to 05/10/2021



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Accreditation number: 19902

Approved By: A. Lenkeit
 Approved Signatory



**AUSTRALIAN
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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 3

Client:	See Civil Pty Ltd	Report No:	46
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	23/10/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

Sample Number:	57108	57109	57110	57111	57112
Field Test Number:	-	-	-	-	-
Date - Field Tested:	21/10/2021	21/10/2021	21/10/2021	21/10/2021	21/10/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 103	Lot 103	Lot 104	Lot 104	Lot 105
Location/Chainage/Easting: (m)	4m off BB	20m off BB	3m off BB	18m off BB	10m off BB
Position/Offset/Northing: (m)	2m off LB	8m off LB	5m off LB	6m off LB	3m off LB
Level/Layer/R.L.	FL - 0.4m	FL	FL - 0.3m	FL	FL - 0.3m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	1.77	1.76	1.79	1.85	1.78
Field Dry Density: (t/m ³)	1.39	1.40	1.43	1.49	1.41
Retained Oversize (Wet basis): (%)	2% on 19.0mm	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	27.0	25.5	25.0	24.0	25.5
Adjusted Lab OMC: (%)	27.7	26.1	25.5	25.2	25.6
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	1.81	1.83	1.86	1.85	1.85
Adjusted Lab Max CWD: (t/m ³)	1.82	1.83	1.86	1.85	1.86
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	0.5% Drier than OMC	0.5% Drier than OMC	1% Drier than OMC	At OMC
Moisture Ratio (%)	97.0	97.0	98.0	95.5	99.5
Density Ratio (%)	97.0	96.0	96.0	99.5	95.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	15	98.02	2.34	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 21/10/2021 to 22/10/2021



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 3

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 357 Ripley Rd, Ripley - Stage 1
 Component: Level 1 Fill
 Lot Number: -

Report No: 46
 Report Date: 23/10/2021
 Project No: 988
 Test Request: -
 ITP/PCP: -

Sample Information & Location

	57113	57114	57115	57116	57117
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	21/10/2021	21/10/2021	21/10/2021	21/10/2021	21/10/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 105	Lot 106	Lot 106	Lot 107	Lot 107
Location/Chainage/Easting:	(m) 17m off BB	9m off BB	21m off BB	5m off BB	15m off BB
Position/Offset/Northing:	(m) 9m off LB	8m off LB	2m off LB	7m off LB	3m off LB
Level/Layer/R.L.	FL	FL	FL	FL - 0.4m	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	1.87	1.87	1.73	1.77	1.78
Field Dry Density:	(t/m ³)	1.51	1.52	1.39	1.41	1.40
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm	2% on 19.0mm	1% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	24.5	23.0	25.0	25.5	27.0
Adjusted Lab OMC:	(%)	25.4	25.1	25.9	26.1	26.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	1.85	1.85	1.81	1.82	1.82
Adjusted Lab Max CWD:	(t/m ³)	1.86	1.85	1.81	1.83	1.83
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1% Drier than OMC	2% Drier than OMC	1% Drier than OMC	0.5% Drier than OMC	0.5% Wetter than OMC
Moisture Ratio		95.5	91.0	96.0	97.5	101.5
Density Ratio	(%)	100.5	101.0	95.5	96.5	97.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	15	98.02	2.34	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 21/10/2021 to 22/10/2021



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 3 of 3

Client:	See Civil Pty Ltd	Report No:	46
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	23/10/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	-
Lot Number:	-	ITP/PCP:	-

Sample Information & Location

	57118	57119	57120	57121	57122
Sample Number:	-	-	-	-	-
Field Test Number:	-	-	-	-	-
Date - Field Tested:	21/10/2021	21/10/2021	21/10/2021	21/10/2021	21/10/2021
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 108	Lot 108	Lot 113	Lot 101	Lot 100
Location/Chainage/Easting:	(m) 11m off BB	18m off BB	9m off BB	11m off BB	4m off BB
Position/Offset/Northing:	(m) 1m off LB	6m off LB	2m off RB	4m off RB	3m off RB
Level/Layer/R.L.	FL - 0.4m	FL	FL	FL	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	1.78	1.86	1.76	1.79	1.82
Field Dry Density:	(t/m ³)	1.45	1.48	1.40	1.41	1.48
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	3% on 19.0mm	2% on 19.0mm	1% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	22.5	26.0	26.0	27.0	23.0
Adjusted Lab OMC:	(%)	24.9	25.7	25.9	27.4	25.0
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	1.85	1.82	1.82	1.75	1.84
Adjusted Lab Max CWD:	(t/m ³)	1.86	1.83	1.83	1.75	1.84
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2% Drier than OMC	0.5% Wetter than OMC	At OMC	0.5% Drier than OMC	2% Drier than OMC
Moisture Ratio	(%)	91.0	101.0	100.5	98.5	91.0
Density Ratio	(%)	95.5	101.5	96.5	102.0	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	15	98.02	2.34	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 21/10/2021 to 22/10/2021

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.
	Accreditation number: 19902



**AUSTRALIAN
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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	63
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	10/11/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	57585	57586	57587	57588	57589
Field Test Number:	1	2	3	4	5
Date - Field Tested:	1/11/2021	1/11/2021	1/11/2021	1/11/2021	1/11/2021
Time - Field Tested:	PM	PM	PM	PM	PM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 71	Lot 70	Lot 69	Lot 68	Lot 67
Location/Chainage/Easting: (m)	11m off FB	15m off FB	5m off BB	8m off FB	4m off BB
Position/Offset/Northing: (m)	6m off RB	2m off RB	2m off RB	3m off RB	2m off RB
Level/Layer/R.L.	FL	FL	FL	FL	FL
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.05	2.18	2.05	2.10	2.16
Field Dry Density: (t/m ³)	1.83	1.97	1.83	1.88	1.93
Retained Oversize (Wet basis): (%)	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm	3% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	12.0	10.5	12.0	12.0	12.0
Adjusted Lab OMC: (%)	12.6	12.3	12.5	12.0	12.2
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.15	2.18	2.14	2.16	2.20
Adjusted Lab Max CWD: (t/m ³)	2.15	2.18	2.15	2.17	2.21
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	0.5% Drier than OMC	2.0% Drier than OMC	0.5% Drier than OMC	At OMC	0.5% Drier than OMC
Moisture Ratio (%)	96.5	85.5	97.5	98.0	97.5
Density Ratio (%)	95.5	100.0	95.5	97.0	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	96.1	5	97.12	1.81	0.572
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/11/2021



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit
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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	71
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	17/11/2021
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	57739	57740	57741	57742	-
Field Test Number:	1	2	3	4	-
Date - Field Tested:	4/11/2021	4/11/2021	4/11/2021	4/11/2021	-
Time - Field Tested:	PM	PM	PM	PM	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 66	Lot 362	Lot 363	Lot 364	
Location/Chainage/Easting: (m)	3m off BB	3m off RB	11m off FB	7m off RB	-
Position/Offset/Northing: (m)	5m off BB	6m off LB	6m off FB	5m off RB	-
Level/Layer/R.L.	FL	FL	FL	FL	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.09	2.13	2.07	2.09	-
Field Dry Density: (t/m ³)	1.88	1.92	1.89	1.91	-
Retained Oversize (Wet basis): (%)	7% on 19.0mm	4% on 19.0mm	7% on 19.0mm	7% on 19.0mm	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content: (%)	11.5	11.0	9.5	9.5	-
Adjusted Lab OMC: (%)	11.3	11.0	11.8	11.5	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density: (t/m ³)	2.13	2.15	2.11	2.07	-
Adjusted Lab Max CWD: (t/m ³)	2.16	2.16	2.13	2.10	-
Compactive Effort:	Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation (%)	At OMC	At OMC	2% Dryer than OMC	2% Dryer than OMC	-
Moisture Ratio (%)	100.0	100.0	80.5	81.0	-
Density Ratio (%)	96.5	98.5	97.0	99.5	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.1	4	97.88	1.27	0.640
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 05/11/2021 to 08/11/2021

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	Accreditation number: 19902	



**AUSTRALIAN
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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	83
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	60733	60734	60735	60736	60737
Field Test Number:	1	2	3	4	5
Date - Field Tested:	9/02/2022	9/02/2022	9/02/2022	9/02/2022	9/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 302	Lot 302	Lot 303	Lot 303	Lot 304
Location/Chainage/Easting: (m)	7m off FB	9m off BB	11m off FB	6m off BB	8m off FB
Position/Offset/Northing: (m)	4m off LB	3m off LB	8m off LB	4m off LB	6m off LB
Level/Layer/R.L.	FL - 0.4m	FL	FL	FL - 0.3m	FL - 0.5m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.17	2.15	2.13	2.12	2.13
Field Dry Density: (t/m ³)	2.03	1.99	1.97	1.97	1.95
Retained Oversize (Wet basis): (%)	5% on 19.0mm	4% on 19.0mm	4% on 19.0mm	4% on 19.0mm	2% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	7.0	8.0	8.5	7.5	9.0
Adjusted Lab OMC: (%)	8.9	9.5	10.2	9.3	10.2
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.17	2.18	2.15	2.16	2.19
Adjusted Lab Max CWD: (t/m ³)	2.18	2.19	2.16	2.17	2.19
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC
Moisture Ratio (%)	79.5	84.0	81.0	82.5	89.5
Density Ratio (%)	99.5	98.0	98.5	97.5	97.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	10	98.60	1.34	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/02/2022 to 10/02/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	83
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	60738	60739	60740	60741	60742
Sample Number:	60738	60739	60740	60741	60742
Field Test Number:	6	7	8	9	10
Date - Field Tested:	9/02/2022	9/02/2022	9/02/2022	9/02/2022	9/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 304	Lot 305	Lot 305	Lot 277	Lot 277
Location/Chainage/Easting:	(m) 4m off BB	3m off FB	13m off BB	11m off FB	8m off BB
Position/Offset/Northing:	(m) 9m off LB	3m off LB	7m off LB	8m off LB	4m off LB
Level/Layer/R.L.	FL	FL	FL - 0.3m	FL - 0.4m	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.09	2.13	2.19	2.18	2.16
Field Dry Density:	(t/m ³)	1.93	1.94	2.04	2.00	2.01
Retained Oversize (Wet basis):	(%)	6% on 19.0mm	5% on 19.0mm	4% on 19.0mm	4% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	9.5	7.5	9.0	7.5
Adjusted Lab OMC:	(%)	10.2	11.5	8.2	10.9	7.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.15	2.16	2.16	2.20
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.16	2.17	2.17	2.21
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	2.0% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC
Moisture Ratio	(%)	85.0	83.0	89.5	84.0	94.5
Density Ratio	(%)	97.5	98.5	101.0	100.5	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	10	98.60	1.34	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/02/2022 to 10/02/2022

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	Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	84
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	60743	60744	60745	60746	60747
Field Test Number:	1	2	3	4	5
Date - Field Tested:	9/02/2022	9/02/2022	9/02/2022	9/02/2022	9/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 276	Lot 276	Lot 275	Lot 275	Lot 274
Location/Chainage/Easting: (m)	10m off FB	5m off BB	5m off FB	9m off BB	7m off FB
Position/Offset/Northing: (m)	2m off LB	7m off LB	8m off LB	3m off LB	6m off LB
Level/Layer/R.L.	FL - 0.6m	FL - 0.2m	FL	FL - 0.3m	FL - 0.4m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.13	2.11	2.14	2.11	2.12
Field Dry Density: (t/m ³)	1.93	1.95	1.95	1.92	1.93
Retained Oversize (Wet basis): (%)	5% on 19.0mm	5% on 19.0mm	6% on 19.0mm	3% on 19.0mm	5% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.0	8.5	9.5	10.0	10.0
Adjusted Lab OMC: (%)	11.0	8.9	10.9	10.7	11.2
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.15	2.13	2.17	2.13	2.16
Adjusted Lab Max CWD: (t/m ³)	2.17	2.14	2.19	2.14	2.17
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	0.5% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC	1% Drier than OMC
Moisture Ratio (%)	92.0	95.0	87.0	94.0	91.0
Density Ratio (%)	98.0	98.5	97.5	98.5	97.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.0	10	98.37	0.88	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/02/2022 to 10/02/2022

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	84
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	60748	60749	60750	60751	60752
Sample Number:	60748	60749	60750	60751	60752
Field Test Number:	6	7	8	9	10
Date - Field Tested:	9/02/2022	9/02/2022	9/02/2022	9/02/2022	9/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 274	Lot 355	Lot 307	Lot 272	Lot 273
Location/Chainage/Easting:	(m) 11m off BB	16m North, 19m West	9m off FB	9m off FB	3m North, 11m East
Position/Offset/Northing:	(m) 5m off LB	SE Corner	2m off LB	5m off LB	SW Corner
Level/Layer/R.L.	FL	FL	FL - 0.4m	FL - 0.5m	FL - 0.2m
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.12	2.11	2.12	2.15	2.08
Field Dry Density:	(t/m ³)	1.91	1.95	1.94	1.99	1.91
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	3% on 19.0mm	6% on 19.0mm	5% on 19.0mm	5% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.0	8.0	9.5	8.5	8.5
Adjusted Lab OMC:	(%)	12.0	8.4	10.5	9.8	8.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.13	2.15	2.16	2.11
Adjusted Lab Max CWD:	(t/m ³)	2.11	2.14	2.17	2.18	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC
Moisture Ratio	(%)	93.5	96.0	89.5	84.5	95.0
Density Ratio	(%)	100.5	98.5	97.5	99.0	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.0	10	98.37	0.88	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/02/2022 to 10/02/2022

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.
	Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	85
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	60763	60764	60765	60766	60767
Field Test Number:	1	2	3	4	5
Date - Field Tested:	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 266	Lot 266	Lot 267	Lot 267	Lot 268
Location/Chainage/Easting: (m)	2m off FB	8m off BB	10m off FB	7m off BB	4m off FB
Position/Offset/Northing: (m)	7m off LB	2m off LB	8m off LB	3m off LB	5m off LB
Level/Layer/R.L.	FL - 0.3m	FL	FL	FL - 0.3m	FL - 0.5m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.13	2.09	2.18	2.18	2.21
Field Dry Density: (t/m ³)	1.95	1.94	2.00	2.04	2.04
Retained Oversize (Wet basis): (%)	3% on 19.0mm	4% on 19.0mm	6% on 19.0mm	5% on 19.0mm	4% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	9.0	7.5	9.0	7.0	8.5
Adjusted Lab OMC: (%)	10.0	8.0	10.0	7.6	10.0
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.10	2.12	2.16	2.14	2.18
Adjusted Lab Max CWD: (t/m ³)	2.11	2.13	2.17	2.16	2.19
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	0.5% Drier than OMC	1% Drier than OMC	0.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	90.0	93.5	88.0	93.0	85.0
Density Ratio (%)	101.0	98.0	100.5	101.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.2	10	99.70	1.34	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/02/2022 to 11/02/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	85
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	60768	60769	60770	60771	60772
Sample Number:	6	7	8	9	10
Field Test Number:	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Date - Field Tested:	AM	AM	AM	AM	AM
Time - Field Tested:	On Site - Allotment Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 268	Lot 269	Lot 269	Lot 270	Lot 271
Location/Chainage/Easting:	(m) 2m off BB	12m off FB	4m off BB	9m North, 9m West	14m off FB
Position/Offset/Northing:	(m) 6m off LB	9m off LB	6m off LB	SE Corner	4m off LB
Level/Layer/R.L.	FL - 0.2m	FL	FL - 0.3m	FL	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.14	2.12	2.17	2.18
Field Dry Density:	(t/m ³)	1.97	1.96	1.98	2.00	2.03
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	7% on 19.0mm	3% on 19.0mm	4% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.0	9.5	7.5	8.0	7.5
Adjusted Lab OMC:	(%)	9.1	10.7	8.1	9.0	7.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.17	2.12	2.15	2.18	2.14
Adjusted Lab Max CWD:	(t/m ³)	2.18	2.15	2.16	2.19	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC	At OMC
Moisture Ratio	(%)	89.5	86.5	92.0	91.5	97.0
Density Ratio	(%)	98.0	99.5	98.5	99.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.2	10	99.70	1.34	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/02/2022 to 11/02/2022

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	Accreditation number: 19902



**AUSTRALIAN
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TESTING**

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 357 Ripley Rd, Ripley - Stage 1
 Component: Level 1 Fill
 Lot Number:

Report No: **86**
 Report Date: 14/02/2022
 Project No: 988
 Test Request:
 ITP/PCP:

Sample Information & Location

Sample Number:	60773	60774	60775	60776	60777
Field Test Number:	1	2	3	4	5
Date - Field Tested:	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 236	Lot 237	Lot 238	Lot 238	Lot 239
Location/Chainage/Easting: (m)	18m off FB	17m North, 19m East	16m off FB	9m off BB	13m off FB
Position/Offset/Northing: (m)	4m off LB	SW Corner	6m off LB	3m off LB	2m off LB
Level/Layer/R.L.	FL - 0.3m	FL	FL	FL - 0.2m	FL - 0.3m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.08	2.10	2.13	2.12	2.07
Field Dry Density: (t/m ³)	1.89	1.92	1.93	1.95	1.86
Retained Oversize (Wet basis): (%)	5% on 19.0mm	6% on 19.0mm	2% on 19.0mm	6% on 19.0mm	5% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.5	9.0	10.0	9.0	11.0
Adjusted Lab OMC: (%)	11.1	9.6	11.8	9.8	11.8
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.12	2.15	2.10	2.17	2.10
Adjusted Lab Max CWD: (t/m ³)	2.14	2.17	2.11	2.19	2.12
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	0.5% Drier than OMC	2% Drier than OMC	1% Drier than OMC	0.5% Drier than OMC
Moisture Ratio (%)	93.0	94.5	85.0	90.0	94.5
Density Ratio (%)	97.0	96.5	101.0	97.0	97.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.8	10	98.42	1.43	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/02/2022 to 11/02/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	86
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	60778	60779	60780	60781	60782
Sample Number:	6	7	8	9	10
Field Test Number:	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Date - Field Tested:	AM	AM	AM	AM	AM
Time - Field Tested:	On Site - Allotment Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 239	Lot 240	Lot 240	Lot 241	Lot 241
Location/Chainage/Easting:	(m) 7m off BB	5m off FB	9m off BB	3m off FB	7m off BB
Position/Offset/Northing:	(m) 4m off LB	2m off LB	8m off LB	4m off LB	6m off LB
Level/Layer/R.L.	FL	FL - 0.3m	FL - 0.5m	FL - 0.2m	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.10	2.15	2.11	2.12	2.09
Field Dry Density:	(t/m ³)	1.91	1.98	1.91	1.92	1.92
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	4% on 19.0mm	4% on 19.0mm	5% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	8.5	10.0	10.5	8.5
Adjusted Lab OMC:	(%)	11.7	9.3	11.6	11.3	9.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.16	2.14	2.12	2.08
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.17	2.15	2.13	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC
Moisture Ratio	(%)	85.0	92.0	87.5	95.0	91.0
Density Ratio	(%)	98.0	99.0	98.0	99.5	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.8	10	98.42	1.43	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/02/2022 to 11/02/2022

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	Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 3

Client:	See Civil Pty Ltd	Report No:	157
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	23/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Earthworks - Level 1	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	71541	71542	71543	71544	71545
Sample Number:	1	2	3	4	5
Field Test Number:					
Date - Field Tested:	16/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022
Time - Field Tested:	0815	0825	0835	0855	0910
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 7000	Lot 7000	Lot 7000	Lot 7000	Lot 7000
Location/Chainage/Easting:	(m) E: 8140.7	E: 8156.2	E: 8160.8	E: 8158.9	E: 8168.2
Position/Offset/Northing:	(m) N: 40574.6	N: 40554.2	N: 40526.0	N: 40520.8	N: 40532.9
Level/Layer/R.L.	RL: 68.3	RL: 66.4	RL: 64.1	RL: 62.7	RL: 63.4
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.17	2.12	2.17	2.15	2.19
Field Dry Density:	(t/m ³)	2.00	1.94	2.00	1.96	2.01
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	4% on 19.0mm	3% on 19.0mm	4% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.0	9.0	8.5	9.5	9.0
Adjusted Lab OMC:	(%)	9.9	11.1	10.5	11.4	11.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.19	2.14	2.20	2.18	2.21
Adjusted Lab Max CWD:	(t/m ³)	2.19	2.15	2.20	2.18	2.22
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Drier than OMC	2.0% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	2.0% Drier than OMC
Moisture Ratio	(%)	81.5	83.0	81.5	84.5	81.5
Density Ratio	(%)	99.0	98.5	99.0	98.5	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.0	11	99.43	1.05	0.386
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	82.6	11	83.22	1.50	0.386
Maximum (%)	2	83.8	11	83.22	1.50	0.386

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 17/09/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: **K. Wesener**
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 3

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 357 Ripley Rd, Ripley - Stage 1
 Component: Earthworks - Level 1
 Lot Number:

Report No: **157**
 Report Date: 23/09/2022
 Project No: 988
 Test Request:
 ITP/PCP:

Sample Information & Location

Sample Number:	71546	71547	71548	71549	71550
Field Test Number:	6	7	8	9	10
Date - Field Tested:	16/09/2022	16/09/2022	16/09/2022	16/09/2022	16/09/2022
Time - Field Tested:	0925	0935	0950	1000	1010
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 7000	Lot 7000	Lot 7000	Lot 7000	Lot 7000
Location/Chainage/Easting: (m)	E: 8163.1	E: 8155.0	E: 8158.8	E: 8162.3	E: 8160.3
Position/Offset/Northing: (m)	N: 40538.9	N: 40521.4	N: 40525.7	N: 40537.9	N: 40532.1
Level/Layer/R.L.	RL: 64.1	RL: 64.8	RL: 65.0	RL: 65.3	RL: 65.0
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.17	2.19	2.11	2.20	2.10
Field Dry Density: (t/m ³)	1.98	1.99	1.91	2.00	1.90
Retained Oversize (Wet basis): (%)	1% on 19.0mm	2% on 19.0mm	1% on 19.0mm	4% on 19.0mm	2% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	9.5	10.0	10.5	10.0	10.5
Adjusted Lab OMC: (%)	11.4	12.1	12.6	11.8	12.0
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.17	2.16	2.13	2.17	2.12
Adjusted Lab Max CWD: (t/m ³)	2.17	2.16	2.13	2.18	2.13
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMC
Moisture Ratio (%)	82.5	83.5	84.0	83.0	86.0
Density Ratio (%)	100.0	101.5	99.0	101.0	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.0	11	99.43	1.05	0.386
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	82.6	11	83.22	1.50	0.386
Maximum (%)	2	83.8	11	83.22	1.50	0.386

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 17/09/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 3 of 3

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 357 Ripley Rd, Ripley - Stage 1
 Component: Earthworks - Level 1
 Lot Number:

Report No: **157**
 Report Date: 23/09/2022
 Project No: 988
 Test Request:
 ITP/PCP:

Sample Information & Location

Sample Number:	71551	-	-	-	-
Field Test Number:	11	-	-	-	-
Date - Field Tested:	16/09/2022	-	-	-	-
Time - Field Tested:	1025	-	-	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 7000	-	-	-	-
Location/Chainage/Easting:	(m) E: 8154.1	-	-	-	-
Position/Offset/Northing:	(m) N: 40540.1	-	-	-	-
Level/Layer/R.L.	RL: 64.7	-	-	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	-	-	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.21	-	-	-	-
Field Dry Density:	(t/m ³)	2.01	-	-	-	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%)	10.0	-	-	-	-
Adjusted Lab OMC:	(%)	12.1	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet Density:	(t/m ³)	2.20	-	-	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.20	-	-	-	-
Compactive Effort:		Standard	-	-	-	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Dryer than OMC	-	-	-	-
Moisture Ratio	(%)	83.5	-	-	-	-
Density Ratio	(%)	100.5	-	-	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	99.0	11	99.43	1.05	0.386
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	82.6	11	83.22	1.50	0.386
Maximum (%)	2	83.8	11	83.22	1.50	0.386

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 17/09/2022



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	83
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	60733	60734	60735	60736	60737
Field Test Number:	1	2	3	4	5
Date - Field Tested:	9/02/2022	9/02/2022	9/02/2022	9/02/2022	9/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 302	Lot 302	Lot 303	Lot 303	Lot 304
Location/Chainage/Easting: (m)	7m off FB	9m off BB	11m off FB	6m off BB	8m off FB
Position/Offset/Northing: (m)	4m off LB	3m off LB	8m off LB	4m off LB	6m off LB
Level/Layer/R.L.	FL - 0.4m	FL	FL	FL - 0.3m	FL - 0.5m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.17	2.15	2.13	2.12	2.13
Field Dry Density: (t/m ³)	2.03	1.99	1.97	1.97	1.95
Retained Oversize (Wet basis): (%)	5% on 19.0mm	4% on 19.0mm	4% on 19.0mm	4% on 19.0mm	2% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	7.0	8.0	8.5	7.5	9.0
Adjusted Lab OMC: (%)	8.9	9.5	10.2	9.3	10.2
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.17	2.18	2.15	2.16	2.19
Adjusted Lab Max CWD: (t/m ³)	2.18	2.19	2.16	2.17	2.19
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	2.0% Drier than OMC	1.5% Drier than OMC	2% Drier than OMC	1.5% Drier than OMC	1% Drier than OMC
Moisture Ratio (%)	79.5	84.0	81.0	82.5	89.5
Density Ratio (%)	99.5	98.0	98.5	97.5	97.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	10	98.60	1.34	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/02/2022 to 10/02/2022



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Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	83
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	60738	60739	60740	60741	60742
Sample Number:	60738	60739	60740	60741	60742
Field Test Number:	6	7	8	9	10
Date - Field Tested:	9/02/2022	9/02/2022	9/02/2022	9/02/2022	9/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 304	Lot 305	Lot 305	Lot 277	Lot 277
Location/Chainage/Easting:	(m) 4m off BB	3m off FB	13m off BB	11m off FB	8m off BB
Position/Offset/Northing:	(m) 9m off LB	3m off LB	7m off LB	8m off LB	4m off LB
Level/Layer/R.L.	FL	FL	FL - 0.3m	FL - 0.4m	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.09	2.13	2.19	2.18	2.16
Field Dry Density:	(t/m ³)	1.93	1.94	2.04	2.00	2.01
Retained Oversize (Wet basis):	(%)	6% on 19.0mm	5% on 19.0mm	4% on 19.0mm	4% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	9.5	7.5	9.0	7.5
Adjusted Lab OMC:	(%)	10.2	11.5	8.2	10.9	7.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.15	2.16	2.16	2.20
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.16	2.17	2.17	2.21
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	2.0% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC
Moisture Ratio	(%)	85.0	83.0	89.5	84.0	94.5
Density Ratio	(%)	97.5	98.5	101.0	100.5	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.1	10	98.60	1.34	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/02/2022 to 10/02/2022

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	84
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	60743	60744	60745	60746	60747
Field Test Number:	1	2	3	4	5
Date - Field Tested:	9/02/2022	9/02/2022	9/02/2022	9/02/2022	9/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 276	Lot 276	Lot 275	Lot 275	Lot 274
Location/Chainage/Easting: (m)	10m off FB	5m off BB	5m off FB	9m off BB	7m off FB
Position/Offset/Northing: (m)	2m off LB	7m off LB	8m off LB	3m off LB	6m off LB
Level/Layer/R.L.	FL - 0.6m	FL - 0.2m	FL	FL - 0.3m	FL - 0.4m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.13	2.11	2.14	2.11	2.12
Field Dry Density: (t/m ³)	1.93	1.95	1.95	1.92	1.93
Retained Oversize (Wet basis): (%)	5% on 19.0mm	5% on 19.0mm	6% on 19.0mm	3% on 19.0mm	5% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.0	8.5	9.5	10.0	10.0
Adjusted Lab OMC: (%)	11.0	8.9	10.9	10.7	11.2
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.15	2.13	2.17	2.13	2.16
Adjusted Lab Max CWD: (t/m ³)	2.17	2.14	2.19	2.14	2.17
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	0.5% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC	1% Drier than OMC
Moisture Ratio (%)	92.0	95.0	87.0	94.0	91.0
Density Ratio (%)	98.0	98.5	97.5	98.5	97.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.0	10	98.37	0.88	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/02/2022 to 10/02/2022

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		Approved By: A. Lenkeit Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	84
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	60748	60749	60750	60751	60752
Sample Number:	60748	60749	60750	60751	60752
Field Test Number:	6	7	8	9	10
Date - Field Tested:	9/02/2022	9/02/2022	9/02/2022	9/02/2022	9/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 274	Lot 355	Lot 307	Lot 272	Lot 273
Location/Chainage/Easting:	(m) 11m off BB	16m North, 19m West	9m off FB	9m off FB	3m North, 11m East
Position/Offset/Northing:	(m) 5m off LB	SE Corner	2m off LB	5m off LB	SW Corner
Level/Layer/R.L.	FL	FL	FL - 0.4m	FL - 0.5m	FL - 0.2m
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.12	2.11	2.12	2.15	2.08
Field Dry Density:	(t/m ³)	1.91	1.95	1.94	1.99	1.91
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	3% on 19.0mm	6% on 19.0mm	5% on 19.0mm	5% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.0	8.0	9.5	8.5	8.5
Adjusted Lab OMC:	(%)	12.0	8.4	10.5	9.8	8.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.10	2.13	2.15	2.16	2.11
Adjusted Lab Max CWD:	(t/m ³)	2.11	2.14	2.17	2.18	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC
Moisture Ratio	(%)	93.5	96.0	89.5	84.5	95.0
Density Ratio	(%)	100.5	98.5	97.5	99.0	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.0	10	98.37	0.88	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 09/02/2022 to 10/02/2022

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	85
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	60763	60764	60765	60766	60767
Field Test Number:	1	2	3	4	5
Date - Field Tested:	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 266	Lot 266	Lot 267	Lot 267	Lot 268
Location/Chainage/Easting: (m)	2m off FB	8m off BB	10m off FB	7m off BB	4m off FB
Position/Offset/Northing: (m)	7m off LB	2m off LB	8m off LB	3m off LB	5m off LB
Level/Layer/R.L.	FL - 0.3m	FL	FL	FL - 0.3m	FL - 0.5m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.13	2.09	2.18	2.18	2.21
Field Dry Density: (t/m ³)	1.95	1.94	2.00	2.04	2.04
Retained Oversize (Wet basis): (%)	3% on 19.0mm	4% on 19.0mm	6% on 19.0mm	5% on 19.0mm	4% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	9.0	7.5	9.0	7.0	8.5
Adjusted Lab OMC: (%)	10.0	8.0	10.0	7.6	10.0
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.10	2.12	2.16	2.14	2.18
Adjusted Lab Max CWD: (t/m ³)	2.11	2.13	2.17	2.16	2.19
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	0.5% Drier than OMC	1% Drier than OMC	0.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio (%)	90.0	93.5	88.0	93.0	85.0
Density Ratio (%)	101.0	98.0	100.5	101.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.2	10	99.70	1.34	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/02/2022 to 11/02/2022

	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.	
	Accreditation number: 19902	



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	85
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	60768	60769	60770	60771	60772
Sample Number:	6	7	8	9	10
Field Test Number:	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Date - Field Tested:	AM	AM	AM	AM	AM
Time - Field Tested:	On Site - Allotment Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 268	Lot 269	Lot 269	Lot 270	Lot 271
Location/Chainage/Easting:	(m) 2m off BB	12m off FB	4m off BB	9m North, 9m West	14m off FB
Position/Offset/Northing:	(m) 6m off LB	9m off LB	6m off LB	SE Corner	4m off LB
Level/Layer/R.L.	FL - 0.2m	FL	FL - 0.3m	FL	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.14	2.12	2.17	2.18
Field Dry Density:	(t/m ³)	1.97	1.96	1.98	2.00	2.03
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	7% on 19.0mm	3% on 19.0mm	4% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.0	9.5	7.5	8.0	7.5
Adjusted Lab OMC:	(%)	9.1	10.7	8.1	9.0	7.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.17	2.12	2.15	2.18	2.14
Adjusted Lab Max CWD:	(t/m ³)	2.18	2.15	2.16	2.19	2.15
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC	At OMC
Moisture Ratio	(%)	89.5	86.5	92.0	91.5	97.0
Density Ratio	(%)	98.0	99.5	98.5	99.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	99.2	10	99.70	1.34	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/02/2022 to 11/02/2022

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**AUSTRALIAN
SOIL AND
CONCRETE
TESTING**

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	86
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	60773	60774	60775	60776	60777
Field Test Number:	1	2	3	4	5
Date - Field Tested:	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - Allotment Fill				
Remarks / Notes:					
Control Line:	Lot 236	Lot 237	Lot 238	Lot 238	Lot 239
Location/Chainage/Easting: (m)	18m off FB	17m North, 19m East	16m off FB	9m off BB	13m off FB
Position/Offset/Northing: (m)	4m off LB	SW Corner	6m off LB	3m off LB	2m off LB
Level/Layer/R.L.	FL - 0.3m	FL	FL	FL - 0.2m	FL - 0.3m
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.08	2.10	2.13	2.12	2.07
Field Dry Density: (t/m ³)	1.89	1.92	1.93	1.95	1.86
Retained Oversize (Wet basis): (%)	5% on 19.0mm	6% on 19.0mm	2% on 19.0mm	6% on 19.0mm	5% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.5	9.0	10.0	9.0	11.0
Adjusted Lab OMC: (%)	11.1	9.6	11.8	9.8	11.8
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.12	2.15	2.10	2.17	2.10
Adjusted Lab Max CWD: (t/m ³)	2.14	2.17	2.11	2.19	2.12
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	0.5% Drier than OMC	2% Drier than OMC	1% Drier than OMC	0.5% Drier than OMC
Moisture Ratio (%)	93.0	94.5	85.0	90.0	94.5
Density Ratio (%)	97.0	96.5	101.0	97.0	97.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.8	10	98.42	1.43	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/02/2022 to 11/02/2022



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Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	86
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/02/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	60778	60779	60780	60781	60782
Sample Number:	6	7	8	9	10
Field Test Number:	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022
Date - Field Tested:	AM	AM	AM	AM	AM
Time - Field Tested:	On Site - Allotment Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 239	Lot 240	Lot 240	Lot 241	Lot 241
Location/Chainage/Easting:	(m) 7m off BB	5m off FB	9m off BB	3m off FB	7m off BB
Position/Offset/Northing:	(m) 4m off LB	2m off LB	8m off LB	4m off LB	6m off LB
Level/Layer/R.L.	FL	FL - 0.3m	FL - 0.5m	FL - 0.2m	FL
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.10	2.15	2.11	2.12	2.09
Field Dry Density:	(t/m ³)	1.91	1.98	1.91	1.92	1.92
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	4% on 19.0mm	4% on 19.0mm	5% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	8.5	10.0	10.5	8.5
Adjusted Lab OMC:	(%)	11.7	9.3	11.6	11.3	9.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.16	2.14	2.12	2.08
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.17	2.15	2.13	2.09
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	1.0% Drier than OMC	1.5% Drier than OMC	0.5% Drier than OMC	1.0% Drier than OMC
Moisture Ratio	(%)	85.0	92.0	87.5	95.0	91.0
Density Ratio	(%)	98.0	99.0	98.0	99.5	100.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.8	10	98.42	1.43	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/02/2022 to 11/02/2022

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	151
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	70830	70831	70832	70833	70834
Field Test Number:	1	2	3	4	5
Date - Field Tested:	10/09/2022	10/09/2022	10/09/2022	10/09/2022	10/09/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 1001	Lot 1001	Lot 1001	Lot 1001	Lot 1001
Location/Chainage/Easting: (m)	E: 8169.3	E: 8182.0	E: 8193.7	E: 8202.2	E: 8228.9
Position/Offset/Northing: (m)	N: 40291.5	N: 40293.9	N: 40313.0	N: 40303.8	N: 40312.1
Level/Layer/R.L.	RL: 54.4	RL: 54.8	RL: 55.1	RL: 55.5	RL: 53.8
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.12	2.09	1.99	2.00	2.05
Field Dry Density: (t/m ³)	1.92	1.90	1.68	1.56	1.73
Retained Oversize (Wet basis): (%)	4% on 19.0mm	7% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	10.0	10.0	18.5	28.5	18.0
Adjusted Lab OMC: (%)	11.0	11.1	18.4	29.1	19.4
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.14	2.11	2.00	1.97	2.01
Adjusted Lab Max CWD: (t/m ³)	2.16	2.13	2.00	1.97	2.01
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	1.0% Drier than OMC	At OMC	0.5% Drier than OMC	1.0% Drier than OMC
Moisture Ratio (%)	93.0	91.0	99.5	98.0	94.0
Density Ratio (%)	98.5	98.0	99.5	101.5	102.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	98.7	10	99.37	1.58	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	151
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	70835	70836	70837	70838	70839
Sample Number:	6	7	8	9	10
Field Test Number:	10/09/2022	10/09/2022	10/09/2022	10/09/2022	10/09/2022
Date - Field Tested:	AM	AM	AM	AM	AM
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 1001	Lot 1001	Lot 1001	Lot 1001	Lot 1001
Location/Chainage/Easting:	(m) E: 8208.4	E: 8193.6	E: 8183.5	E: 8160.6	E: 8152.7
Position/Offset/Northing:	(m) N: 40327.7	N: 40322.6	N: 40340.1	N: 40344.4	N: 40350.5
Level/Layer/R.L.	RL: 54.3	RL: 54.6	RL: 54.8	RL: 55.2	RL: 55.5
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	1.93	1.98	2.09	2.07	2.17
Field Dry Density:	(t/m ³)	1.52	1.68	1.87	1.84	1.98
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	4% on 19.0mm	3% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	26.5	18.0	12.0	12.5	9.5
Adjusted Lab OMC:	(%)	26.8	18.9	11.3	12.3	10.1
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	1.97	1.99	2.12	2.10	2.14
Adjusted Lab Max CWD:	(t/m ³)	1.97	1.99	2.13	2.11	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

	(%)	At OMC	1.0% Drier than OMC	1.0% Wetter than OMC	0.5% Wetter than OMC	0.5% Drier than OMC
Moisture Variation	(%)					
Moisture Ratio	(%)	99.5	95.5	108.0	103.0	94.5
Density Ratio	(%)	98.0	99.0	98.5	98.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	98.7	10	99.37	1.58	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 3

Client:	See Civil Pty Ltd	Report No:	152
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	70840	70841	70842	70843	70844
Field Test Number:	1	2	3	4	5
Date - Field Tested:	10/09/2022	10/09/2022	10/09/2022	10/09/2022	10/09/2022
Time - Field Tested:	AM	AM	AM	AM	AM
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 1001	Lot 1001	Lot 1001	Lot 1001	Lot 1001
Location/Chainage/Easting: (m)	E: 8170.5	E: 8184.8	E: 8192.1	E: 8222.8	E: 8197.4
Position/Offset/Northing: (m)	N: 40360.0	N: 40364.9	N: 40374.1	N: 40325.8	N: 40337.7
Level/Layer/R.L.	RL: 55.8	RL: 56.2	RL: 55.8	RL: 54.7	RL: 53.8
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.10	2.10	1.82	1.84	2.09
Field Dry Density: (t/m ³)	1.81	1.81	1.38	1.39	1.91
Retained Oversize (Wet basis): (%)	5% on 19.0mm	4% on 19.0mm	0% on 19.0mm	0% on 19.0mm	4% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	16.5	16.0	32.0	33.0	9.0
Adjusted Lab OMC: (%)	17.4	17.2	33.3	33.8	9.6
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.08	2.09	1.80	1.82	2.12
Adjusted Lab Max CWD: (t/m ³)	2.09	2.10	1.80	1.82	2.13
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC
Moisture Ratio (%)	94.0	93.0	97.0	97.5	95.5
Density Ratio (%)	100.5	99.5	101.0	101.5	98.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	100.1	15	100.64	1.72	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022 to 13/09/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 2 of 3

Client:	See Civil Pty Ltd	Report No:	152
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	70845	70846	70847	70848	70849
Sample Number:	6	7	8	9	10
Field Test Number:	10/09/2022	10/09/2022	10/09/2022	10/09/2022	10/09/2022
Date - Field Tested:	AM	AM	AM	AM	AM
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 1001	Lot 1001	Lot 1001	Lot 1001	Lot 1001
Location/Chainage/Easting:	(m) E: 8155.8	E: 8163.9	E: 8170.3	E: 8173.0	E: 8184.0
Position/Offset/Northing:	(m) N: 40361.4	N: 40298.7	N: 40300.6	N: 40333.8	N: 40356.6
Level/Layer/R.L.	RL: 55.7	RL: 53.9	RL: 54.3	RL: 54.9	RL: 54.1
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.15	2.03	2.06	2.07	2.10
Field Dry Density:	(t/m ³)	1.98	1.80	1.84	1.81	1.88
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	5% on 19.0mm	5% on 19.0mm	4% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	12.0	12.0	14.5	12.0
Adjusted Lab OMC:	(%)	9.2	14.3	12.3	13.8	11.6
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.14	2.00	2.06	2.05	2.12
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.02	2.08	2.07	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	0.5% Drier than OMC	2.0% Drier than OMC	0.5% Drier than OMC	0.5% Wetter than OMC	0.5% Wetter than OMC
Moisture Ratio	(%)	93.0	85.0	97.5	103.5	105.0
Density Ratio	(%)	100.0	100.5	99.0	100.0	98.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	100.1	15	100.64	1.72	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022 to 13/09/2022

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 3 of 3

Client:	See Civil Pty Ltd	Report No:	152
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	70850	70851	70852	70853	70854
Sample Number:	11	12	13	14	15
Field Test Number:	10/09/2022	10/09/2022	10/09/2022	10/09/2022	10/09/2022
Date - Field Tested:	AM	AM	AM	AM	AM
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 1001	Lot 1001	Lot 1001	Lot 1001	Lot 1001
Location/Chainage/Easting:	(m) E: 8188.6	E: 8181.3	E: 8195.6	E: 8192.1	E: 8203.5
Position/Offset/Northing:	(m) N: 40370.2	N: 40328.8	N: 40351.4	N: 40366.3	N: 40359.6
Level/Layer/R.L.	RL: 55.5	RL: 54.6	RL: 54.5	RL: 55.2	RL: 53.9
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	1.88	1.93	2.10	2.03	1.84
Field Dry Density:	(t/m ³)	1.45	1.52	1.77	1.61	1.40
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	0% on 19.0mm	5% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	30.0	27.0	18.5	26.0	32.0
Adjusted Lab OMC:	(%)	31.0	28.2	18.9	25.2	32.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	1.84	1.88	2.01	1.96	1.86
Adjusted Lab Max CWD:	(t/m ³)	1.84	1.88	2.03	1.96	1.86
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.0% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC	0.5% Wetter than OMC	0.5% Drier than OMC
Moisture Ratio	(%)	96.5	96.0	97.0	103.0	97.5
Density Ratio	(%)	102.0	103.0	103.0	103.5	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	100.1	15	100.64	1.72	0.330
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022 to 13/09/2022

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	153
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	70855	70856	70857	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	10/09/2022	10/09/2022	10/09/2022	-	-
Time - Field Tested:	AM	AM	AM	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 1001	Lot 1001	Lot 1001		
Location/Chainage/Easting:	(m) E: 8077.3	E: 8064.1	E: 8073.4	-	-
Position/Offset/Northing:	(m) N: 40357.9	N: 40338.9	N: 40260.6	-	-
Level/Layer/R.L.	FL - 0.5	FL - 1.0	FL	-	-
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	-	-

Field & Laboratory Results

Field Wet Density:	(t/m ³) 1.81	1.82	1.93	-	-
Field Dry Density:	(t/m ³) 1.33	1.32	1.49	-	-
Retained Oversize (Wet basis):	(%) 0% on 19.0mm	0% on 19.0mm	5% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%) 36.0	37.5	29.0	-	-
Adjusted Lab OMC:	(%) 37.4	38.6	30.0	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density:	(t/m ³) 1.84	1.82	1.92	-	-
Adjusted Lab Max CWD:	(t/m ³) 1.84	1.82	1.94	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation	(%) 1.0% Drier than OMC	1.0% Drier than OMC	0.5% Drier than OMC	-	-
Moisture Ratio	(%) 96.5	97.0	97.5	-	-
Density Ratio	(%) 98.5	100.0	99.5	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	98.6	3	99.17	0.71	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022 to 13/09/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By:

A. Lenkeit
Approved Signatory



**AUSTRALIAN
SOIL AND
CONCRETE
TESTING**

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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 1

Client:	See Civil Pty Ltd	Report No:	154
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	14/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	70858	70859	70860	-	-
Field Test Number:	1	2	3	-	-
Date - Field Tested:	10/09/2022	10/09/2022	10/09/2022	-	-
Time - Field Tested:	AM	AM	AM	-	-
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 804	Lot 804	Lot 804		
Location/Chainage/Easting: (m)	18m North, 7m West	38m North, 19m West	65m North, 11m West	-	-
Position/Offset/Northing: (m)	SE Corner	SE Corner	SE Corner	-	-
Level/Layer/R.L.	FL	FL - 0.5	FL - 1.0	-	-
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	-	-

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.09	2.10	2.11	-	-
Field Dry Density: (t/m ³)	1.90	1.86	1.85	-	-
Retained Oversize (Wet basis): (%)	5% on 19.0mm	6% on 19.0mm	4% on 19.0mm	-	-
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content: (%)	10.0	13.0	14.0	-	-
Adjusted Lab OMC: (%)	10.6	12.0	15.0	-	-
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet Density: (t/m ³)	2.11	2.10	2.07	-	-
Adjusted Lab Max CWD: (t/m ³)	2.12	2.12	2.08	-	-
Compactive Effort:	Standard	Standard	Standard	-	-

Relative Compaction & Moisture

Moisture Variation (%)	0.5% Drier than OMC	1.0% Wetter than OMC	1.0% Drier than OMC	-	-
Moisture Ratio (%)	95.0	107.5	93.0	-	-
Density Ratio (%)	98.5	99.0	101.0	-	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	98	98.6	3	99.60	1.40	0.739
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in NATA endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022 to 13/09/2022



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 2

Client:	See Civil Pty Ltd	Report No:	148
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	13/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 - Allotment Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	70894	70895	70896	70897	70898
Sample Number:	1	2	3	4	5
Field Test Number:	8/09/2022	8/09/2022	8/09/2022	8/09/2022	8/09/2022
Date - Field Tested:	0815	0820	0825	0835	0840
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 264	Lot 263	Lot 262	Lot 261	Lot 260
Location/Chainage/Easting:	(m) 8m off North Boundary	(m) 6m off North Boundary	(m) 9m off North Boundary	(m) 6m off North Boundary	(m) 8m off North Boundary
Position/Offset/Northing:	(m) 19m off East Boundary	(m) 11m off East Boundary	(m) 17m off East Boundary	(m) 12m off East Boundary	(m) 10m off East Boundary
Level/Layer/R.L.	F/L	F/L	F/L	F/L	F/L
Layer Depth:	(mm) -	(mm) -	(mm) -	(mm) -	(mm) -
Depth Tested:	(mm) 150	(mm) 150	(mm) 150	(mm) 150	(mm) 150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.09	2.05	2.11	2.10	2.10
Field Dry Density:	(t/m ³)	1.90	1.86	1.94	1.94	1.90
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	5% on 19.0mm	6% on 19.0mm	4% on 19.0mm	6% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	10.0	10.5	9.0	8.0	10.5
Adjusted Lab OMC:	(%)	12.2	12.1	11.0	9.5	12.7
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.06	2.15	2.12	2.19
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.08	2.17	2.13	2.20
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC
Moisture Ratio	(%)	83.0	85.5	81.0	85.0	83.5
Density Ratio	(%)	97.0	99.0	97.5	98.5	95.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.5	10	98.29	2.00	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022



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Accreditation number: 19902

Approved By: K. Wesener
Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client:	See Civil Pty Ltd	Report No:	148
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	13/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 - Allotment Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	70899	70900	70901	70902	70903
Field Test Number:	6	7	8	9	10
Date - Field Tested:	8/09/2022	8/09/2022	8/09/2022	8/09/2022	8/09/2022
Time - Field Tested:	0845	0855	0905	0910	0915
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 259	Lot 258	Lot 257	Lot 256	Lot 102
Location/Chainage/Easting:	(m) 9m off North Boundary	8m off North Boundary	6m off North Boundary	6m off North Boundary	12m off North Boundary
Position/Offset/Northing:	(m) 26m off East Boundary	9m off East Boundary	12m off East Boundary	24m off East Boundary	8m off East Boundary
Level/Layer/R.L.	F/L	F/L	F/L	F/L	F/L
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.13	2.06	2.15	2.08	2.12
Field Dry Density:	(t/m ³)	1.96	1.90	1.98	1.91	1.95
Retained Oversize (Wet basis):	(%)	7% on 19.0mm	7% on 19.0mm	1% on 19.0mm	2% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	8.5	8.5	9.0	9.0
Adjusted Lab OMC:	(%)	10.5	9.9	10.3	10.3	11.0
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.08	2.14	2.17	2.09	2.10
Adjusted Lab Max CWD:	(t/m ³)	2.10	2.16	2.17	2.10	2.10
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC
Moisture Ratio	(%)	82.5	83.5	83.0	86.5	83.0
Density Ratio	(%)	101.5	95.5	99.0	99.0	101.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.5	10	98.29	2.00	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 1 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 357 Ripley Rd, Ripley - Stage 1
 Component: Level 1 - Allotment Fill
 Lot Number:

Report No: **149**
 Report Date: 13/09/2022
 Project No: 988
 Test Request:
 ITP/PCP:

Sample Information & Location

	70904	70905	70906	70907	70908
Sample Number:	1	2	3	4	5
Field Test Number:	8/09/2022	8/09/2022	8/09/2022	8/09/2022	8/09/2022
Date - Field Tested:	0920	0925	0930	0940	0945
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 255	Lot 254	Lot 253	Lot 252	Lot 251
Location/Chainage/Easting:	(m) 19m off North Boundary	(m) 18m off North Boundary	(m) 17m off North Boundary	(m) 10m off North Boundary	(m) 2m off North Boundary
Position/Offset/Northing:	(m) 6m off East Boundary	(m) 5m off East Boundary	(m) 7m off East Boundary	(m) 8m off East Boundary	(m) 12m off East Boundary
Level/Layer/R.L.	F/L	F/L	F/L	F/L	F/L
Layer Depth:	(mm) -	(mm) -	(mm) -	(mm) -	(mm) -
Depth Tested:	(mm) 150	(mm) 150	(mm) 150	(mm) 150	(mm) 150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.16	2.07	2.18	2.16	2.08
Field Dry Density:	(t/m ³)	2.00	1.87	2.00	1.99	1.88
Retained Oversize (Wet basis):	(%)	7% on 19.0mm	4% on 19.0mm	4% on 19.0mm	7% on 19.0mm	2% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	8.5	10.5	9.0	8.5	10.5
Adjusted Lab OMC:	(%)	10.4	12.4	10.9	10.0	12.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.19	2.04	2.15	2.21	2.07
Adjusted Lab Max CWD:	(t/m ³)	2.21	2.06	2.16	2.22	2.07
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC
Moisture Ratio	(%)	80.0	85.5	82.0	84.0	86.0
Density Ratio	(%)	97.5	100.5	101.0	97.0	100.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.3	10	99.00	1.76	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.5	10	84.59	2.67	0.405
Maximum (%)	2	85.7	10	84.59	2.67	0.405

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902

Approved By: **K. Wesener**
 Approved Signatory



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 2

Client: See Civil Pty Ltd
 Client Address: 108 Siganto Drive, Helensvale QLD 4210
 Project: 357 Ripley Rd, Ripley - Stage 1
 Component: Level 1 - Allotment Fill
 Lot Number:

Report No: **149**
 Report Date: 13/09/2022
 Project No: 988
 Test Request:
 ITP/PCP:

Sample Information & Location

Sample Number:	70909	70910	70911	70912	70913
Field Test Number:	6	7	8	9	10
Date - Field Tested:	8/09/2022	8/09/2022	8/09/2022	8/09/2022	8/09/2022
Time - Field Tested:	0955	1000	1005	1010	1015
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 250	Lot 248	Lot 243	Lot 244	Lot 245
Location/Chainage/Easting: (m)	4m off North Boundary	6m off North Boundary	8m off North Boundary	8m off North Boundary	9m off North Boundary
Position/Offset/Northing: (m)	8m off East Boundary	10m off East Boundary	12m off East Boundary	10m off East Boundary	8m off East Boundary
Level/Layer/R.L.	F/L	F/L	F/L	F/L	F/L
Layer Depth: (mm)	-	-	-	-	-
Depth Tested: (mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density: (t/m ³)	2.12	2.09	2.15	2.10	2.09
Field Dry Density: (t/m ³)	1.94	1.88	1.98	1.91	1.90
Retained Oversize (Wet basis): (%)	3% on 19.0mm	1% on 19.0mm	4% on 19.0mm	4% on 19.0mm	8% on 19.0mm
Material Description:	-	-	-	-	-
Moisture Content Method:	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content: (%)	9.0	11.0	8.5	10.0	9.5
Adjusted Lab OMC: (%)	10.6	12.5	10.6	11.6	11.1
Fraction Tested:	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density: (t/m ³)	2.16	2.08	2.19	2.05	2.12
Adjusted Lab Max CWD: (t/m ³)	2.17	2.08	2.20	2.06	2.14
Compactive Effort:	Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation (%)	1.5% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMC	1.5% Dryer than OMC
Moisture Ratio (%)	85.5	88.5	81.5	85.5	87.0
Density Ratio (%)	97.5	100.0	97.5	101.5	97.5

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.3	10	99.00	1.76	0.405
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	83.5	10	84.59	2.67	0.405
Maximum (%)	2	85.7	10	84.59	2.67	0.405

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022



Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.

Accreditation number: 19902



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Compaction Control Test Report (Nuclear Gauge & Hilf) Page: 1 of 3

Client:	See Civil Pty Ltd	Report No:	150
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	13/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 - Allotment Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	70914	70915	70916	70917	70918
Sample Number:	1	2	3	4	5
Field Test Number:	8/09/2022	8/09/2022	8/09/2022	8/09/2022	8/09/2022
Date - Field Tested:	1020	1025	1030	1040	1045
Time - Field Tested:	On Site - General Fill				
Material Source / Type:					
Remarks / Notes:					
Control Line:	Lot 290	Lot 291	Lot 281	Lot 279	Lot 381
Location/Chainage/Easting:	(m) 10m off North Boundary	(m) 11m off North Boundary	(m) 12m off North Boundary	(m) 6m off North Boundary	(m) 10m off North Boundary
Position/Offset/Northing:	(m) 4m off East Boundary	(m) 3m off East Boundary	(m) 10m off East Boundary	(m) 13m off East Boundary	(m) 22m off East Boundary
Level/Layer/R.L.	F/L	F/L	F/L	F/L	F/L
Layer Depth:	(mm) -	(mm) -	(mm) -	(mm) -	(mm) -
Depth Tested:	(mm) 150	(mm) 150	(mm) 150	(mm) 150	(mm) 150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.09	2.13	2.08	2.09	2.11
Field Dry Density:	(t/m ³)	1.87	1.94	1.86	1.90	1.91
Retained Oversize (Wet basis):	(%)	8% on 19.0mm	3% on 19.0mm	2% on 19.0mm	9% on 19.0mm	5% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	11.5	10.0	11.5	10.0	10.5
Adjusted Lab OMC:	(%)	13.1	12.0	12.9	11.9	11.9
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.13	2.13	2.11	2.06	2.12
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.14	2.12	2.09	2.14
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Drier than OMC	2.0% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC	1.5% Drier than OMC
Moisture Ratio	(%)	88.0	82.5	89.5	86.0	88.0
Density Ratio	(%)	97.0	99.5	98.0	100.5	99.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.2	14	98.86	1.84	0.342
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	85.1	14	86.08	2.91	0.342
Maximum (%)	2	87.1	14	86.08	2.91	0.342

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022



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Accreditation number: 19902

Approved By: **K. Wesener**
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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 2 of 3

Client:	See Civil Pty Ltd	Report No:	150
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	13/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 - Allotment Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

Sample Number:	70919	70920	70921	70922	70923
Field Test Number:	6	7	8	9	10
Date - Field Tested:	8/09/2022	8/09/2022	8/09/2022	8/09/2022	8/09/2022
Time - Field Tested:	1130	1135	1140	1145	1150
Material Source / Type:	On Site - General Fill				
Remarks / Notes:					
Control Line:	Lot 382	Lot 383	Lot 380	Lot 55	Lot 53
Location/Chainage/Easting:	(m) 14m off North Boundary	22m off North Boundary	6m off North Boundary	12m off North Boundary	6m off North Boundary
Position/Offset/Northing:	(m) 25m off East Boundary	5m off East Boundary	20m off East Boundary	4m off East Boundary	2m off East Boundary
Level/Layer/R.L.	F/L	F/L	F/L	F/L	F/L
Layer Depth:	(mm) -	-	-	-	-
Depth Tested:	(mm) 150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.04	2.09	2.11	2.03	2.05
Field Dry Density:	(t/m ³)	1.79	1.88	1.93	1.77	1.81
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	9% on 19.0mm	7% on 19.0mm	4% on 19.0mm	6% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)	14.0	11.0	9.5	14.5	13.0
Adjusted Lab OMC:	(%)	15.7	12.5	11.3	16.3	15.2
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Density:	(t/m ³)	2.12	2.12	2.16	2.02	2.10
Adjusted Lab Max CWD:	(t/m ³)	2.12	2.15	2.19	2.03	2.11
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	1.5% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC
Moisture Ratio	(%)	90.5	87.5	83.5	89.5	86.0
Density Ratio	(%)	96.5	97.0	96.5	99.5	97.0

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.2	14	98.86	1.84	0.342
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	85.1	14	86.08	2.91	0.342
Maximum (%)	2	87.1	14	86.08	2.91	0.342

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022



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Compaction Control Test Report (Nuclear Gauge & Hilf)

Page: 3 of 3

Client:	See Civil Pty Ltd	Report No:	150
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	13/09/2022
Project:	357 Ripley Rd, Ripley - Stage 1	Project No:	988
Component:	Level 1 - Allotment Fill	Test Request:	
Lot Number:		ITP/PCP:	

Sample Information & Location

	70924	70925	70926	70927	
Sample Number:	11	12	13	14	-
Field Test Number:	8/09/2022	8/09/2022	8/09/2022	8/09/2022	-
Date - Field Tested:	1200	1205	1210	1215	-
Time - Field Tested:	On Site - General Fill				
Material Source / Type:	Remarks / Notes:				
Control Line:	Lot 288	Lot 289	Lot 47	Lot 48	-
Location/Chainage/Easting:	19m off North Boundary	14m off North Boundary	28m off North Boundary	30m off North Boundary	-
Position/Offset/Northing:	8m off East Boundary	3m off East Boundary	5m off East Boundary	1m off East Boundary	-
Level/Layer/R.L.	F/L	F/L	F/L	F/L	-
Layer Depth:	-	-	-	-	-
Depth Tested:	150	150	150	150	-

Field & Laboratory Results

Field Wet Density:	(t/m ³)	2.15	2.19	2.14	2.17	-
Field Dry Density:	(t/m ³)	1.96	1.99	1.95	1.98	-
Retained Oversize (Wet basis):	(%)	4% on 19.0mm	7% on 19.0mm	7% on 19.0mm	11% on 19.0mm	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:	(%)	10.0	9.5	10.0	9.5	-
Adjusted Lab OMC:	(%)	12.2	11.1	11.9	11.9	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet Density:	(t/m ³)	2.15	2.13	2.10	2.12	-
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.15	2.12	2.15	-
Compactive Effort:		Standard	Standard	Standard	Standard	-

Relative Compaction & Moisture

Moisture Variation	(%)	2.0% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	-
Moisture Ratio	(%)	83.0	86.0	83.5	81.5	-
Density Ratio	(%)	99.5	101.5	101.0	101.0	-

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.2	14	98.86	1.84	0.342
Maximum (%)		-	-	-	-	-
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-2	85.1	14	86.08	2.91	0.342
Maximum (%)	2	87.1	14	86.08	2.91	0.342

Test Methods Used.

AS1289.1.1 (Prep), AS1289.5.4.1 - (Dry Density Ratio, Moisture Variation & Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS 1289.1.2.1, CI 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endorsement)

Remarks Regarding the Lot.

Laboratory testing 10/09/2022



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Accreditation number: 19902

Appendix B

Individual Lot Certificates

23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 803

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Commercial Lot 803

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **803** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully



Jason Mckenna
Laboratory Manager

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 804

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Commercial Lot 804

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **804** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna
Laboratory Manager

ASCT Brisbane South
jason.mckenna@asct.com.au

23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 1001

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Commercial Lot 1001

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1001** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully



Jason Mckenna
Laboratory Manager

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 1002

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Commercial Lot 1002

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **1002** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully



Jason Mckenna
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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 7000

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Commercial Lot 7000

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **7000** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully



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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 31

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 31

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **31** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully



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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 32

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 32

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **32** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 33

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 33

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **33** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 34

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 34

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **34** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 35

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 35

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **35** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 36

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 36

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **36** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 37

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 37

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **37** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 38

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 38

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **38** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 39

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 39

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **39** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 40

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 40

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **40** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 41

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 41

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **41** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 42

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 42

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **42** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 43

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 43

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **43** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 44

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 44

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **44** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 46

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 46

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **46** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 47

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 47

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **47** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 48

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 48

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **48** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 49

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 49

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **49** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 50

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 50

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **50** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 53

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 53

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **53** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully



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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 54

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 54

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **54** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 55

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 55

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **55** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 56

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 56

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **56** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 57

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 57

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **57** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 58

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 58

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **58** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 59

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 59

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **59** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 60

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 60

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **60** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 66

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 66

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **66** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 67

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 67

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **67** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 68

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 68

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **68** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 69

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 69

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **69** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 70

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 70

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **70** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 71

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 71

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **71** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 84

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 84

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **84** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 85

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 85

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **85** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 88

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 88

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **88** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 89

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 89

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **89** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 90

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 90

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **90** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 91

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 91

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **91** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 92

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 92

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **92** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 100

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 100

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **100** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 101

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 101

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **101** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 102

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 102

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **102** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 103

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 103

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **103** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 104

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING **357 Ripley Road Stage 1 Bulk Earthworks** **Residential Lot 104**

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **104** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 105

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 105

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **105** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 106

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 106

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **106** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 107

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 107

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **107** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 108

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 108

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **108** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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Please do not hesitate to contact me if you have any queries.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 113

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 113

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **113** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 136

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 136

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **136** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 243

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 243

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **243** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 244

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 244

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **244** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 245

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 245

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **245** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 246

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 246

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **246** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 247

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 247

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **247** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 248

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 248

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **248** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 249

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 249

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **249** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 250

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 250

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **250** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 251

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 251

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **251** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 252

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 252

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **252** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 253

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 253

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **253** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 254

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 254

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **254** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully



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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 255

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 255

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **255** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 256

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 256

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **256** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 257

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 257

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **257** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 258

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 258

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **258** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 259

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 259

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **259** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 260

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 260

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **260** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 261

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 261

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **261** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 262

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 262

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **262** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 263

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 263

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **263** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 264

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 264

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **264** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 279

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 279

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **279** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 280

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 280

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **280** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 281

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING **357 Ripley Road Stage 1 Bulk Earthworks** **Residential Lot 281**

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **281** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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Yours faithfully

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 282

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 282

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **282** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 283

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 283

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **283** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 284

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 284

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **284** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 285

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 285

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **285** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 286

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 286

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **286** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 287

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 287

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **287** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 288

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING **357 Ripley Road Stage 1 Bulk Earthworks** **Residential Lot 288**

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **288** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 289

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 289

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **289** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 290

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 290

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **290** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 291

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 291

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **291** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 292

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 292

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **292** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 293

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 293

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **293** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 294

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 294

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **294** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 295

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 295

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **295** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 296

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 296

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **296** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 297

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 297

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **297** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 298

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 298

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **298** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 299

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 299

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **299** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 300

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 300

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **300** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 362

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 362

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **362** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 363

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 363

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **363** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 364

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 364

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **364** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 381

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 381

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **381** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 382

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 382

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **382** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 383

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Residential Lot 383

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **383** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

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23rd September 2022

Ref No: 988_Level 1_357 Ripley Road Stage 1_Lot 802

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

357 Ripley Road Stage 1 Bulk Earthworks

Parkland Lot 802

Australian Soil and Concrete Testing was commissioned by SEE Civil Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

Fill was placed on the site between the 16/08/2021 and 8/09/2022.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **802** is considered to have been carried out in accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 '*Residential Slabs & Footings*'.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stage 1 Bulk Earthworks** Dated 23rd September 2022.

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