15th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3

REPORT ON LEVEL 1

EARTHWORKS INSPECTION AND TESTING

PROJECT: **357 Ripley Road Stages 1 to 3**

CONTRACTOR: **SEE Civil Pty Ltd**

ASCT Brisbane South, 4/31 Tradelink Road Hillcrest QLD 4118 Ph: 07 3800 7314 email: Brisbane.south@asct.com.au

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1 INTRODUCTION

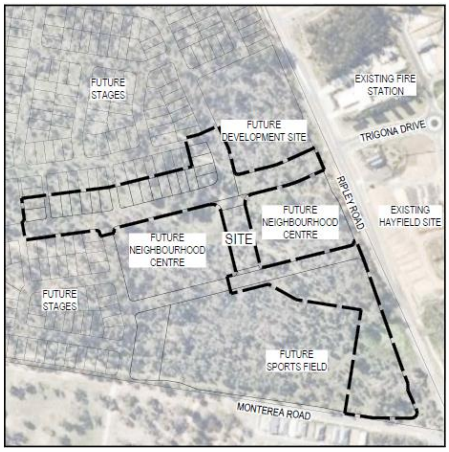
1.0 GENERAL

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'.*

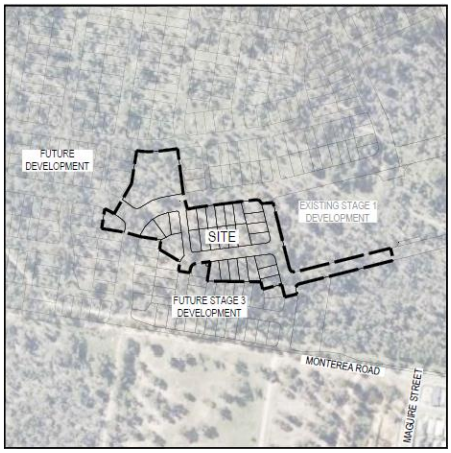
The fill placed on the site between the 16/08/2021 and 10/02/2022 as detailed in this report is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

1.1 SITE DESCRIPTION

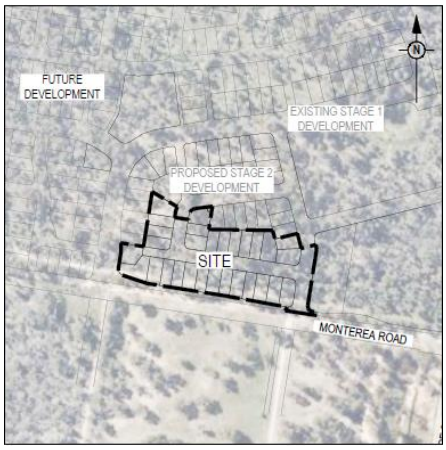
The site is located at 357 Ripley Road in Ripley, Queensland shown below.



Stage 1

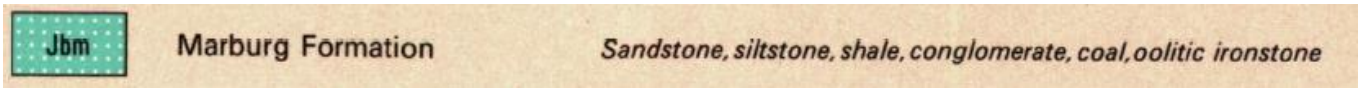


Stage 2



Stage 3

1.2 SITE GEOLOGY



Source: Moreton Geology Map

2 WORKS AND SPECIFICATIONS

The earthworks generally comprised of Level 1 filling placed across the site. 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 95% (standard compaction).

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 95% Standard Compaction (AS 1289 5.8.1, 5.7.1 & 2.1.1). Any areas where low compaction was identified were reworked and further testing carried out.

SUMMARY OF FIELD DENSITY TEST RESULTS

SAMPLE NUMBER	SAMPLE DATE		LOCATION OF TEST		LEVEL OF TEST	DENSITY RATIO %
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
54995	6/09/2021	SE Fill Area	E: 8166.4	N: 40295.0	RL: 49.9	96.5
54996	6/09/2021	SE Fill Area	E: 8181.9	N: 40299.3	RL: 50.2	97.0
54997	6/09/2021	SE Fill Area	E: 8199.2	N: 40313.6	RL: 50.4	97.5
54998	6/09/2021	SE Fill Area	E: 8202.4	N: 40306.6	RL: 50.1	96.0
54999	6/09/2021	SE Fill Area	E: 8224.7	N: 40311.8	RL: 50.2	95.5
55000	6/09/2021	SE Fill Area	E: 8212.8	N: 40326.6	RL: 50.3	95.5
55001	6/09/2021	SE Fill Area	E: 8194.5	N: 40322.4	RL: 50.5	97.0
55002	6/09/2021	SE Fill Area	E: 8183.0	N: 40340.4	RL: 50.5	95.0
55003	6/09/2021	SE Fill Area	E: 8166.3	N: 40348.6	RL: 50.4	95.5
55004	6/09/2021	SE Fill Area	E: 8153.9	N: 40358.0	RL: 50.6	95.0
55005	6/09/2021	SE Fill Area	E: 8144.4	N: 40366.1	RL: 50.8	98.0
55006	6/09/2021	SE Fill Area	E: 8169.3	N: 40370.1	RL: 50.7	97.0
55007	6/09/2021	SE Fill Area	E: 8184.2	N: 40374.1	RL: 50.8	97.5
55008	6/09/2021	SE Fill Area	E: 8192.2	N: 40377.1	RL: 50.8	96.0
55009	6/09/2021	SE Fill Area	E: 8199.5	N: 40382.7	RL: 51.0	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
55771	14/09/2021	SE Fill Area	E: 8163.2	N: 40296.2	RL: 52.5	96.5

55772	14/09/2021	SE Fill Area	E: 8169.7	N: 40299.7	RL: 52.6	96.0
55773	14/09/2021	SE Fill Area	E: 8173.4	N: 40336.1	RL: 52.9	97.0
55774	14/09/2021	SE Fill Area	E: 8179.7	N: 40355.4	RL: 52.8	97.0
55775	14/09/2021	SE Fill Area	E: 8184.4	N: 40371.0	RL: 53.0	97.5
55776	14/09/2021	SE Fill Area	E: 8175.3	N: 40314.0	RL: 52.2	98.5
55777	14/09/2021	SE Fill Area	E: 8183.9	N: 40327.6	RL: 52.2	97.0
55778	14/09/2021	SE Fill Area	E: 8190.0	N: 40355.0	RL: 52.5	96.0
55779	14/09/2021	SE Fill Area	E: 8194.5	N: 40367.7	RL: 52.4	97.5
55780	14/09/2021	SE Fill Area	E: 8199.9	N: 40379.9	RL: 52.8	97.0
55812	15/09/2021	SE Fill Area	E: 8159.4	N: 40292.2	RL: 52.6	100.5
55813	15/09/2021	SE Fill Area	E: 8162.6	N: 40295.5	RL: 52.6	95.5
55814	15/09/2021	SE Fill Area	E: 8166.3	N: 40294.0	RL: 52.8	97.0
55815	15/09/2021	SE Fill Area	E: 8169.6	N: 40299.3	RL: 52.9	98.5
55816	15/09/2021	SE Fill Area	E: 8177.5	N: 40313.6	RL: 53.0	98.0
55817	15/09/2021	SE Fill Area	E: 8183.2	N: 40319.7	RL: 53.2	97.5
55818	15/09/2021	SE Fill Area	E: 8140.0	N: 40355.1	RL: 52.9	99.0
55819	15/09/2021	SE Fill Area	E: 8144.7	N: 40347.7	RL: 52.9	98.5
55820	15/09/2021	SE Fill Area	E: 8155.1	N: 40342.1	RL: 53.1	97.0
55821	15/09/2021	SE Fill Area	E: 8159.6	N: 40333.4	RL: 53.2	100.0
55822	15/09/2021	SE Fill Area	E: 8142.6	N: 40358.4	RL: 53.5	98.0
55823	15/09/2021	SE Fill Area	E: 8152.1	N: 40362.6	RL: 53.6	96.5
55824	15/09/2021	SE Fill Area	E: 8160.3	N: 40373.1	RL: 53.5	98.5
55825	15/09/2021	SE Fill Area	E: 8165.5	N: 40382.0	RL: 53.4	97.0
55826	15/09/2021	SE Fill Area	E: 8173.9	N: 40390.4	RL: 53.2	98.5
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
56164	23/09/2021	NE Fill Area	E: 8154.3	N: 40522.0	RL: 65.1	96.5
56165	23/09/2021	NE Fill Area	E: 8158.5	N: 40525.1	RL: 65.3	97.0
56166	23/09/2021	NE Fill Area	E: 8162.0	N: 40537.5	RL: 65.5	96.0
56167	23/09/2021	NE Fill Area	E: 8160.1	N: 40531.4	RL: 65.3	97.0
56168	23/09/2021	NE Fill Area	E: 8153.6	N: 40539.1	RL: 65.5	98.0
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	3moff 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

No. of Tests: 305 **Mean: 97.7 %**

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 between the 16/08/2021 and 10/02/2022 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 Reports

AUSTRALIAN SOIL AND CONCRETE TESTING
A.S.C.T.

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% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

NATA

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
A.S.C.T.

ASCT Brisbane South
Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
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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)

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% Dryer than OMC**	**1.5% Dryer than OMC**	**1% Dryer than OMC**	**1.5% Dryer than OMC**	**1% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

NATA

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
A.S.C.T.

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A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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:		**53794**	**53795**	**53796**	**53797**	**53798**
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% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer 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**

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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

NATA

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Accreditation number: 19902

AUSTRALIAN SOIL AND CONCRETE TESTING

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)

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:		**53799**	**53800**	**53801**	**-**	**-**
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% Dryer than OMC**	**2% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

NATA

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Accreditation number: 19902

AUSTRALIAN SOIL AND CONCRETE TESTING
A.S.C.T.

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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)

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% Dryer than OMC**	**0.5% Wetter than OMC**	**2% Dryer than OMC**	**1% Wetter than OMC**	**2% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

NATA

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Accreditation number: 19902

Approved By: A.Lenkeit
Approved Signatory

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A.S.C.T.

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Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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:		**53807**	**53808**	**53809**	**53810**	**53811**
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% Dryer than OMC**	**2% Dryer than OMC**	**2% Dryer than OMC**	**1% Wetter than OMC**	**2% Dryer 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**

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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

NATA

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A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 25/08/2021

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A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer than OMC**	**0.5% Wetter than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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)

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:		**53962**	**53963**	**53964**	**53965**	**53966**
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% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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

Accreditation number: 19902

AUSTRALIAN SOIL AND CONCRETE TESTING
A.S.C.T.

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)

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% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer than OMC**	**At OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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Accreditation number: 19902

Approved By: A.Lenkeit
Approved Signatory

AUSTRALIAN SOIL AND CONCRETE TESTING

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)

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:		**53983**	**53984**	**53985**	**53986**	**53987**
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% Dryer than OMC**	**1.5% Dryer than OMC**	**At OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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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)

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

Sample Number:		**54255**	**54256**	**54257**	**54258**	**54259**
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% Dryer than OMC**	**1.5% Dryer than OMC**	**2% Dryer than OMC**	**At OMC**	**1.5% Dryer 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, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

Remarks Regarding the Lot.

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

NATA

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Telephone: 0437 776 582
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A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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

Sample Number:		**54260**	**54261**	**54262**	**54263**	**54264**
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	E:8236.4	E:8272.6	E:8276.8	E:8278.7
Position/Offset/Northing:	(m)	N:40174.9	N:40126.9	N:40093.7	N:40116.0	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)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	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

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

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 endosrement)

Remarks Regarding the Lot.

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

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Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer than OMC**	**0.5% Dryer than OMC**	**0.5% Wetter than OMC**	**1.5% Dryer than OMC**	**1% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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Accreditation number: 19902

Approved By: A.Lenkeit
Approved Signatory

AUSTRALIAN SOIL AND CONCRETE TESTING

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)

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:		**54505**	**54506**	**54507**	**54508**	**54509**
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% Dryer than OMC**	**0.5% Wetter than OMC**	**0.5% Wetter than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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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)

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% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 08/09/2021

NATA

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Approved By: A.Lenkeit
Approved Signatory

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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)

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:		**54515**	**54516**	**54517**	**54518**	**-**
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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 08/09/2021

NATA

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A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer than OMC**	**1.5% Dryer than OMC**	**1% Dryer than OMC**	**1% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

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Compaction Control Test Report (Nuclear Gauge & Hilf)

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:		**54813**	**54814**	**54815**	**54816**	**-**
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% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

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Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**2% Dryer than OMC**	**2% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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Accreditation number: 19902

Approved By: A.Lenkeit
Approved Signatory

AUSTRALIAN SOIL AND CONCRETE TESTING
A.S.C.T.

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)

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:		**54858**	**54859**	**54860**	**54861**	**54862**
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% Dryer than OMC**	**2% Dryer than OMC**	**2% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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NATA

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A.S.C.T.

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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)

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% Dryer than OMC**	**2.0% Dryer than OMC**	**1.5% Dryer than OMC**	**2% Dryer than OMC**	**2% Dryer 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 endosrement)

Remarks Regarding the Lot.

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Approved By: A.Lenkeit
Approved Signatory

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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)

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:		**54868**	**54869**	**54870**	**54871**	**54872**
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% Dryer than OMC**	**1.5% Dryer than OMC**	**2% Dryer than OMC**	**2% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

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:		**54878**	**54879**	**54880**	**54881**	**54882**
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% Dryer than OMC**	**1% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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

Accreditation number: 19902

AUSTRALIAN SOIL AND CONCRETE TESTING

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)

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:		**54883**	**54884**	**54885**	**54886**	**54887**
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

Moisture Variation	(%)	**1.5% Dryer than OMC**	**0.5% Wetter than OMC**	**1% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Wetter than OMC**
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 endosrement)

Remarks Regarding the Lot.

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

NATA

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A.S.C.T.

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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)

Client:	See Civil Pty Ltd	Report No:	**16**
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	15/09/2021
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:		**54995**	**54996**	**54997**	**54998**	**54999**
Field Test Number:		-	-	-	-	-
Date - Field Tested:		6/09/2021	6/09/2021	6/09/2021	6/09/2021	6/09/2021
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: 8166.4	E: 8181.9	E: 8199.2	E: 8202.4	E: 8224.7
Position/Offset/Northing:	(m)	N: 40295.0	N: 40299.3	N: 40313.6	N: 40306.6	N: 40311.8
Level/Layer/R.L.		RL: 49.9	RL: 50.2	RL: 50.4	RL: 50.1	RL: 50.2
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m^3)	1.98	2.05	2.04	2.00	1.97
Field Dry Density:	(t/m^3)	1.76	1.80	1.81	1.75	1.70
Retained Oversize (Wet basis):	(%)	1% 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:	(%)	12.5	14.5	12.5	14.5	16.0
Adjusted Lab OMC:	(%)	14.5	13.7	14.0	14.4	15.0
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)	2.05	2.11	2.09	2.08	2.06
Adjusted Lab Max CWD:	(t/m^3)	2.05	2.12	2.09	2.09	2.07
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**2.0% Dryer than OMC**	**0.5% Wetter than OMC**	**1.5% Dryer than OMC**	**At OMC**	**1% Wetter than OMC**
Moisture Ratio	(%)	**87.5**	**104.0**	**88.5**	**100.0**	**107.5**
Density Ratio	(%)	**96.5**	**97.0**	**97.5**	**96.0**	**95.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**96.1**	15	96.40	1.00	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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 12/09/2021

NATA

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Accreditation number: 19902

Approved By: A.Lenkeit
Approved Signatory

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A.S.C.T.

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)

Client:	See Civil Pty Ltd	Report No:	**16**
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	15/09/2021
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:		**55000**	**55001**	**55002**	**55003**	**55004**
Field Test Number:		-	-	-	-	-
Date - Field Tested:		6/09/2021	6/09/2021	6/09/2021	6/09/2021	6/09/2021
Time - Field Tested:		AM	AM	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: 8212.8	E: 8194.5	E: 8183.0	E: 8166.3	E: 8153.9
Position/Offset/Northing:	(m)	N: 40326.6	N: 40322.4	N: 40340.4	N: 40348.6	N: 40358.0
Level/Layer/R.L.		RL: 50.3	RL: 50.5	RL: 50.5	RL: 50.4	RL: 50.6
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m^3)	1.97	2.03	1.91	1.97	1.94
Field Dry Density:	(t/m^3)	1.72	1.77	1.71	1.75	1.72
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	4% on 19.0mm	2% 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:	(%)	15.0	15.0	12.0	12.5	13.0
Adjusted Lab OMC:	(%)	14.3	14.6	13.5	14.2	14.7
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)	2.05	2.08	2.00	2.04	2.02
Adjusted Lab Max CWD:	(t/m^3)	2.06	2.10	2.01	2.06	2.04
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Wetter than OMC**	**0.5% Wetter than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**103.0**	**103.0**	**88.5**	**87.5**	**90.0**
Density Ratio	(%)	**95.5**	**97.0**	**95.0**	**95.5**	**95.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**96.1**	15	96.40	1.00	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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 12/09/2021

NATA

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	See Civil Pty Ltd	Report No:	**16**
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	15/09/2021
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:		**55005**	**55006**	**55007**	**55008**	**55009**
Field Test Number:		-	-	-	-	-
Date - Field Tested:		6/09/2021	6/09/2021	6/09/2021	6/09/2021	6/09/2021
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: 8144.4	E: 8169.3	E: 8184.2	E: 8192.2	E: 8199.5
Position/Offset/Northing:	(m)	N: 40366.1	N: 40370.1	N: 40374.1	N: 40377.1	N: 40382.7
Level/Layer/R.L.		RL: 50.8	RL: 50.7	RL: 50.8	RL: 50.8	RL: 51.0
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.04	1.97	2.05	1.92	2.04
Field Dry Density:	(t/m^3)	1.82	1.74	1.85	1.69	1.83
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	13.0	11.0	13.5	11.5
Adjusted Lab OMC:	(%)	13.7	14.9	12.9	14.6	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)	2.08	2.03	2.10	1.98	2.07
Adjusted Lab Max CWD:	(t/m^3)	2.09	2.04	2.10	2.00	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**1.5% Dryer than OMC**	**2% Dryer than OMC**	**2% Dryer than OMC**	**1% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**89.5**	**88.0**	**83.5**	**93.0**	**87.5**
Density Ratio	(%)	**98.0**	**97.0**	**97.5**	**96.0**	**98.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**96.1**	15	96.40	1.00	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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 12/09/2021

NATA

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Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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Accreditation number: 19902

Approved By: A.Lenkeit
Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

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:		**55117**	**55118**	**55119**	**55120**	**55121**
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% Dryer than OMC**	**1.5% Dryer than OMC**	**2% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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

Accreditation number: 19902

AUSTRALIAN SOIL AND CONCRETE TESTING

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)

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:		**55122**	**55123**	**55124**	**55125**	**-**
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% Dryer than OMC**	**1% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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Accreditation number: 19902

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A.S.C.T.

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)

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% Dryer than OMC**	**2.0% Dryer than OMC**	**2% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 15/09/2021

NATA

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Accreditation number: 19902

Approved By: A.Lenkeit
Approved Signatory

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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)

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:		**55131**	**55132**	**55133**	**55134**	**55135**
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% Dryer than OMC**	**1.5% Dryer than OMC**	**1% Dryer than OMC**	**1.5% Dryer than OMC**	**1% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 15/09/2021

NATA

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Compaction Control Test Report (Nuclear Gauge & Hilf)

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	-	-	-

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% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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Mobile: 0437 776 582
A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 14/09/2021

NATA

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
A.S.C.T.

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)

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:		**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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 14/09/2021

NATA

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

Accreditation number: 19902

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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:	**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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 15/09/2021

NATA

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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A.S.C.T.

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)

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% Dryer than OMC**	**1.5% Dryer than OMC**	**At OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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:		**55760**	**55761**	**55762**	**55763**	**55764**
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% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	See Civil Pty Ltd	Report No:	**27**
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	27/09/2021
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:		**55771**	**55772**	**55773**	**55774**	**55775**
Field Test Number:		-	-	-	-	-
Date - Field Tested:		14/09/2021	14/09/2021	14/09/2021	14/09/2021	14/09/2021
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: 8163.2	E: 8169.7	E: 8173.4	E: 8179.7	E: 8184.4
Position/Offset/Northing:	(m)	N: 40296.2	N: 40299.7	N: 40336.1	N: 40355.4	N: 40371.0
Level/Layer/R.L.		RL: 52.5	RL: 52.6	RL: 52.9	RL: 52.8	RL: 53.0
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.09	2.08	2.10	2.08	2.11
Field Dry Density:	(t/m^3)	1.88	1.86	1.89	1.87	1.90
Retained Oversize (Wet basis):	(%)	1% on 19.0mm	5% on 19.0mm	1% 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:	(%)	11.5	11.5	11.5	11.0	11.0
Adjusted Lab OMC:	(%)	12.8	12.9	12.4	12.6	12.6
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	2.15	2.16	2.14	2.16
Adjusted Lab Max CWD:	(t/m^3)	2.17	2.16	2.17	2.14	2.17
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1% Dryer than OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**88.5**	**89.0**	**91.0**	**87.0**	**87.5**
Density Ratio	(%)	**96.5**	**96.0**	**97.0**	**97.0**	**97.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**96.7**	10	96.97	0.61	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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 23/09/2021

NATA

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Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

Client:	See Civil Pty Ltd	Report No:	**27**
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	27/09/2021
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:		**55776**	**55777**	**55778**	**55779**	**55780**
Field Test Number:		-	-	-	-	-
Date - Field Tested:		14/09/2021	14/09/2021	14/09/2021	14/09/2021	14/09/2021
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: 8175.3	E: 8183.9	E: 8190.0	E: 8194.5	E: 8199.9
Position/Offset/Northing:	(m)	N: 40314.0	N: 40327.6	N: 40355.0	N: 40367.7	N: 40379.9
Level/Layer/R.L.		RL: 52.2	RL: 52.2	RL: 52.5	RL: 52.4	RL: 52.8
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.12	2.07	2.08	2.09	2.07
Field Dry Density:	(t/m^3)	1.91	1.84	1.87	1.86	1.83
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	2% on 19.0mm	3% 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:	(%)	11.0	12.5	11.0	12.0	12.5
Adjusted Lab OMC:	(%)	12.9	12.6	12.6	12.5	14.4
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)	2.15	2.13	2.16	2.14	2.13
Adjusted Lab Max CWD:	(t/m^3)	2.16	2.13	2.16	2.15	2.13
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**1.5% Dryer than OMC**	**At OMC**	**2% Dryer than OMC**	**0.5% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**87.0**	**99.0**	**86.0**	**96.5**	**88.5**
Density Ratio	(%)	**98.5**	**97.0**	**96.0**	**97.5**	**97.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**96.7**	10	96.97	0.61	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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 23/09/2021

NATA

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Accreditation number: 19902

AUSTRALIAN SOIL AND CONCRETE TESTING
A.S.C.T.

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)

Client:	See Civil Pty Ltd	Report No:	**28**
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	28/09/2021
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:		**55812**	**55813**	**55814**	**55815**	**55816**
Field Test Number:		-	-	-	-	-
Date - Field Tested:		15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021
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: 8159.4	E: 8162.6	E: 8166.3	E: 8169.6	E: 8177.5
Position/Offset/Northing:	(m)	N: 40292.2	N: 40295.5	N: 40294.0	N: 40299.3	N: 40313.6
Level/Layer/R.L.		RL: 52.6	RL: 52.6	RL: 52.8	RL: 52.9	RL: 53.0
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.11	1.73	1.74	2.09	2.03
Field Dry Density:	(t/m^3)	1.90	1.37	1.41	1.85	1.91
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% 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:	(%)	11.0	25.5	23.0	13.0	6.5
Adjusted Lab OMC:	(%)	12.9	25.4	22.7	14.7	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)	2.09	1.80	1.78	2.11	2.07
Adjusted Lab Max CWD:	(t/m^3)	2.09	1.80	1.79	2.11	2.08
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**1.5% Dryer than OMC**	**At OMC**	**0.5% Wetter than OMC**	**2% Dryer than OMC**	**1.5% Dryer than OMC**
Moisture Ratio	(%)	**87.0**	**100.5**	**101.0**	**87.0**	**82.5**
Density Ratio	(%)	**100.5**	**95.5**	**97.0**	**98.5**	**98.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**97.6**	15	98.05	1.26	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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 16/09/2021

NATA

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Approved By: A.Lenkeit
Approved Signatory

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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)

Client:	See Civil Pty Ltd	Report No:	**28**
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	28/09/2021
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:		**55817**	**55818**	**55819**	**55820**	**55821**
Field Test Number:		-	-	-	-	-
Date - Field Tested:		15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021
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: 8183.2	E: 8140.0	E: 8144.7	E: 8155.1	E: 8159.6
Position/Offset/Northing:	(m)	N: 40319.7	N: 40355.1	N: 40347.7	N: 40342.1	N: 40333.4
Level/Layer/R.L.		RL: 53.2	RL: 52.9	RL: 52.9	RL: 53.1	RL: 53.2
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m^3)	1.81	2.10	2.02	1.80	2.04
Field Dry Density:	(t/m^3)	1.44	1.92	1.90	1.42	1.92
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	2% on 19.0mm	3% 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:	(%)	26.0	9.0	6.5	27.0	6.5
Adjusted Lab OMC:	(%)	25.9	11.0	7.8	26.5	8.2
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)	1.83	2.12	2.05	1.84	2.03
Adjusted Lab Max CWD:	(t/m^3)	1.85	2.12	2.05	1.86	2.04
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**At OMC**	**2% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Wetter than OMC**	**2% Dryer than OMC**
Moisture Ratio	(%)	**100.5**	**83.0**	**81.0**	**102.5**	**78.0**
Density Ratio	(%)	**97.5**	**99.0**	**98.5**	**97.0**	**100.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**97.6**	15	98.05	1.26	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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 16/09/2021

NATA

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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)

Client:	See Civil Pty Ltd	Report No:	**28**
Client Address:	108 Siganto Drive, Helensvale QLD 4210	Report Date:	28/09/2021
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:		**55822**	**55823**	**55824**	**55825**	**55826**
Field Test Number:		-	-	-	-	-
Date - Field Tested:		15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021
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: 8142.6	E: 8152.1	E: 8160.3	E: 8165.5	E: 8173.9
Position/Offset/Northing:	(m)	N: 40358.4	N: 40362.6	N: 40373.1	N: 40382.0	N: 40390.4
Level/Layer/R.L.		RL: 53.5	RL: 53.6	RL: 53.5	RL: 53.4	RL: 53.2
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m^3)	1.86	1.69	1.85	1.83	1.83
Field Dry Density:	(t/m^3)	1.50	1.33	1.46	1.44	1.42
Retained Oversize (Wet basis):	(%)	3% on 19.0mm	5% 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:	(%)	24.0	27.5	26.5	27.0	28.5
Adjusted Lab OMC:	(%)	23.7	27.9	26.4	26.8	28.1
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)	1.88	1.72	1.87	1.88	1.84
Adjusted Lab Max CWD:	(t/m^3)	1.90	1.75	1.88	1.89	1.85
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**0.5% Wetter than OMC**	**0.5% Dryer than OMC**	**At OMC**	**0.5% Wetter than OMC**	**0.5% Wetter than OMC**
Moisture Ratio	(%)	**102.0**	**97.5**	**99.5**	**101.0**	**101.0**
Density Ratio	(%)	**98.0**	**96.5**	**98.5**	**97.0**	**98.5**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**97.6**	15	98.05	1.26	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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 16/09/2021

NATA

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Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer than OMC**	**At OMC**	**1.5% Dryer than OMC**	**1% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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Approved Signatory

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Compaction Control Test Report (Nuclear Gauge & Hilf)

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:		**55906**	**55907**	**55908**	**55909**	**55910**
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	Lots 295/296	Lots 297/298	Lots 299/300	Lots 248/249
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)	2.17	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% Dryer than OMC**	**At OMC**	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**1% Dryer 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 endosrement)

Remarks Regarding the Lot.

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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:	**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% Dryer than OMC**	**0.5% Wetter than OMC**	**1.5% Dryer than OMC**	**0.5% Wetter than OMC**	**1% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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
A.S.C.T.

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:	**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% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 01/10/2021

NATA

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
A.S.C.T.

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:	**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	11.5	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% Dryer than OMC**	**0.5% Wetter than OMC**	**At OMC**	**0.5% Wetter than OMC**	**0.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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
A.S.C.T.

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:	**34**
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:		**56164**	**56165**	**56166**	**56167**	**56168**
Field Test Number:		-	-	-	-	-
Date - Field Tested:		23/09/2021	23/09/2021	23/09/2021	23/09/2021	23/09/2021
Time - Field Tested:		AM	AM	AM	AM	AM
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		NE Fill Area	NE Fill Area	NE Fill Area	NE Fill Area	NE Fill Area
Location/Chainage/Easting:	(m)	E: 8154.3	E: 8158.5	E: 8162.0	E: 8160.1	E: 8153.6
Position/Offset/Northing:	(m)	N: 40522.0	N: 40525.1	N: 40537.5	N: 40531.4	N: 40539.1
Level/Layer/R.L.		RL: 65.1	RL: 65.3	RL: 65.5	RL: 65.3	RL: 65.5
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150

Field & Laboratory Results

Field Wet Density:	(t/m^3)	2.07	2.07	2.08	2.07	2.13
Field Dry Density:	(t/m^3)	1.87	1.87	1.85	1.86	1.90
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	3% on 19.0mm	3% 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:	(%)	10.5	11.0	12.0	11.5	12.0
Adjusted Lab OMC:	(%)	12.4	12.4	12.2	12.7	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)	2.13	2.13	2.16	2.13	2.18
Adjusted Lab Max CWD:	(t/m^3)	2.14	2.14	2.17	2.13	2.18
Compactive Effort:		Standard	Standard	Standard	Standard	Standard

Relative Compaction & Moisture

Moisture Variation	(%)	**1.5% Dryer than OMC**	**1.5% Dryer than OMC**	**At OMC**	**1% Dryer than OMC**	**0.5% Dryer than OMC**
Moisture Ratio	(%)	**86.5**	**87.5**	**100.0**	**91.0**	**97.5**
Density Ratio	(%)	**96.5**	**97.0**	**96.0**	**97.0**	**98.0**

Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	*95*	**96.5**	5	96.94	0.73	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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 02/10/2021

NATA

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
A.S.C.T.

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)

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% Dryer than OMC**	**0.5% Dryer than OMC**	**0.5% Dryer than OMC**	**1% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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

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
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A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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:		**57113**	**57114**	**57115**	**57116**	**57117**
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% Dryer than OMC**	**2% Dryer than OMC**	**1% Dryer than OMC**	**0.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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

Accreditation number: 19902

AUSTRALIAN SOIL AND CONCRETE TESTING

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)

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:		**57118**	**57119**	**57120**	**57121**	**57122**
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% Dryer than OMC**	**0.5% Wetter than OMC**	**At OMC**	**0.5% Dryer than OMC**	**2% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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

Accreditation number: 19902

AUSTRALIAN SOIL AND CONCRETE TESTING
A.S.C.T.

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:	**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% Dryer than OMC**	**2.0% Dryer than OMC**	**0.5% Dryer than OMC**	**At OMC**	**0.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

Laboratory testing 09/11/2021

NATA

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
A.S.C.T.

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:	**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	3moff 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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
A.S.C.T.

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)

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% Dryer than OMC**	**1.5% Dryer than OMC**	**2% Dryer than OMC**	**1.5% Dryer than OMC**	**1% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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Accreditation number: 19902

Approved By: A.Lenkeit
Approved Signatory

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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)

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:		**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% Dryer than OMC**	**2.0% Dryer than OMC**	**1.0% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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Accreditation number: 19902

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A.S.C.T.

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Postal: PO Box 1232 Park Ridge QLD 4125
Laboratory: 4/31 Tradelink Road Hillcrest Q 4118
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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)

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% Dryer than OMC**	**0.5% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer than OMC**	**1% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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

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)

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:		**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% Dryer than OMC**	**0.5% Dryer than OMC**	**1.0% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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A.S.C.T.

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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)

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% Dryer than OMC**	**0.5% Dryer than OMC**	**1% Dryer than OMC**	**0.5% Dryer than OMC**	**1.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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Approved By: A.Lenkeit
Approved Signatory

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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)

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:		**60768**	**60769**	**60770**	**60771**	**60772**
Field Test Number:		6	7	8	9	10
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 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% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer than OMC**	**1.0% Dryer 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 endosrement)

Remarks Regarding the Lot.

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A.B.N. 28 608 830 306

Compaction Control Test Report (Nuclear Gauge & Hilf)

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% Dryer than OMC**	**0.5% Dryer than OMC**	**2% Dryer than OMC**	**1% Dryer than OMC**	**0.5% Dryer 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 endosrement)

Remarks Regarding the Lot.

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Compaction Control Test Report (Nuclear Gauge & Hilf)

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:		**60778**	**60779**	**60780**	**60781**	**60782**
Field Test Number:		6	7	8	9	10
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 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% Dryer than OMC**	**1.0% Dryer than OMC**	**1.5% Dryer than OMC**	**0.5% Dryer than OMC**	**1.0% Dryer 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 endosrement)

Remarks Regarding the Lot.

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

NATA

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

Accreditation number: 19902

Appendix B

Individual Lot Certificates

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 31

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 31 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 32

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 32 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 33

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 33 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 34

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 34 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 35

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 35 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 36

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 36 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 37

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 37 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 38

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 38 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 39

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 39 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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'*.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 40

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 40 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 41

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 41 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 42

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 42 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 43

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 43 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 44

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 44 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 46

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 46 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 47

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 47 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
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Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 48

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 48 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
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Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 49

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 49 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
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Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 50

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 50 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
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Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 53

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 53 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 54

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 54 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 55

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 55 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 56

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 56 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 57

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 57 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 58

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 58 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 59

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 59 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 60

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 60 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 66

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 66 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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'*.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 67

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 67 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 68

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 68 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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'*.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 69

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 69 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 70

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 70 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 71

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 71 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 382

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 382 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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'*.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 382

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 382 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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'*.

Full details of the inspection and testing conducted is included in our Level 1 report Ref No: **988_Level 1_357 Ripley Road Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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

ASCT Brisbane South
PO Box 1232
PARK RIDGE QLD 4125
ABN: 28 608 830 306
ACN: 608 830 306
Mobile: 0437 776 582 or 0439 776 589
Email: brisbane.south@asct.com.au
Web: www.asct.com.au

9th February 2022

Ref No: 988_Level 1_357 Ripley Road Stages 1 to 3_Lot 802

CERTIFICATE OF CONTROLLED LEVEL 1 FILLING

LOT 802 – 357 Ripley Road Stages 1 to 3

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 4/11/2021.

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 Stages 1 to 3** Dated 9th February 2022.

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Yours faithfully

Jason Mckenna
Laboratory Manager

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