LEVEL ONE

Reference No.: 1993-077

SURVEILLANCE

AND INSPECTION REPORT

Carried Out By



PREPARED FOR: -

DRAPERS CIVIL CONTRACTING PTY LTD



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Appendices

Appendix A Construction Drawings

Appendix B Daily Field Compaction Summary Results



Client Name: Drapers Civil Contracting Pty Ltd Project Name: Wandana Estate Stage 2A Date: 5th of May 2021 Author: Mr. Sam Loza Reference No.: 1993-077 Revision: 0 Project Manager: Mr. Kieran Missen

1. Introduction & Scope

At the request of Drapers Civil Contracting Pty Ltd, Geotechnical Laboratories has carried out inspection and testing of the above-mentioned site from the 15th of May 2020 to the 19th of April 2021 where a residential development is being constructed. Inspection and testing of stripping, material quality and compaction control tests were carried out to comply with the requirements of AS 3798 Appendix B, Level 1.

The following documentation was submitted to Geotechnical Laboratories by Drapers Civil Contracting Pty Ltd and was used to determine compliance of earthworks in conjunction with the requirements of AS 3798 – 2007 (See Appendix A).

(1). Site Layout Plan Drawing No. R200 Rev 3.

General site works involved the placement of fill, using on-site derived clay, to construct the allotment fill to the required finished levels as indicated on the faceplan drawings.

2. Site Preparation

Site inspections were undertaken on the 15th of May 2020 confirming that selected areas to be filled were completely stripped of topsoil prior to filling. The brown silty topsoils had been stockpiled around the site for later removal offsite.

Initial proof roll inspections were performed and subsequently throughout the project duration to ensure no significant soft areas were present prior to filling.

3. <u>Fill Material</u>

It is understood that the fill material used was sourced from on-site excavations, mainly service trenches and road boxing.



The fill material is best described as a silty CLAY, brown, grey-brown, slightly moist to moist, medium plasticity with basalt gravel and occasional cobbles.

The fill material is consistent with the naturally occurring soils for this region.

Source material was deemed a **Suitable Material** in accordance with guidelines set out in AS 3798 - 2007 Section 4.4.

4. Fill Construction Procedure

The following plant (but not always limited to) were engaged in the fill placement process:

- Dump trucks / highway trucks
- A watercart
- A sheepsfoot compactor (815)

The sheepsfoot compactor placed material in horizontal loose layers of approximately 300mm. The sheepsfoot compactor also performed compaction of the clay fill operating in a criss-cross pattern where possible.

The moisture condition of the fill was closely monitored and moisture conditioning procedures were applied to bring the material closer to its Standard Optimum Moisture Content (AS 1289 5.7.1).

5. <u>Compaction Control Testing</u>

Compaction control testing was performed on-site using a Nuclear Densometer in accordance with AS 1289 5.8.1. Laboratory reference densities were determined from material sampled at each test site location using the Hilf Rapid Compaction Method in accordance with AS 1289 5.7.1.

A total of twenty-five compaction tests were performed on the allotment filling construction. Results are presented in Appendix B of this report.

6. <u>Testing Frequency</u>

Testing frequencies were in accordance with **AS 3798 - 2007 Table 8.1** for **Large Scale Operations.**

Acceptance of fill layers for compaction was based on the requirements of **AS** 3798 - 2007 Table 5.1 Item 1. Residential.

As a result, the compliance criteria adopted by Geotechnical Laboratories was a hilf density ratio not less than 95 percent of the maximum hilf density value as determined by the Standard Hilf Rapid Compaction Method in accordance with AS 1289 5.7.1.



Test results indicate that the above-mentioned requirements have been successfully achieved.

No moisture criteria was specified.

7. <u>Statement of Compliance</u>

So far as can be determined, Drapers Civil Contracting Pty Ltd has satisfactorily complied with the compaction and construction processes required for the structural filling of this site. As such, structural filling placed on this site by Drapers Civil Contracting Pty Ltd from the 15th of May 2020 to the 19th of April 2021 can be categorised as CONTROLLED FILL in accordance with AS 2870-2011.

8. Limitations and Liability of this Report

This report has been produced for and remains the property of Drapers Civil Contracting Pty Ltd.

The release of this report to a third party will only occur if Geotechnical Laboratories Pty Ltd has received, in writing, the authority to do so by our client.

Geotechnical Laboratories Pty Ltd will not engage in any third-party communication regarding this report.

Where information has been supplied by the client or third party, the assumption is made that this is correct. Geotechnical Laboratories Pty Ltd will not be held responsible for any inaccuracies supplied.

Test results and controlled fill compliance relates only to fill placed by Drapers Civil Contracting Pty Ltd and for earthworks completed at the time of inspection and testing. Any previous or subsequent earthworks will require a separate evaluation.

For & on behalf of Geotechnical Laboratories Pty Ltd.

Sam Loza Laboratory Manager.



LEVEL ONE

SURVEILLANCE

AND INSPECTION REPORT

APPENDIX A





LEVEL ONE

SURVEILLANCE

AND INSPECTION REPORT

APPENDIX B



GEOTECHNICAL LABORATORIES ACN 102 571 077 14 Ravenhall Way, Ravenhall, Vic 3023

REPORT NO.: # 1992/316

LOCATION:

DRAPERS - Wandana Estate Stage 2A

14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIA FRC OPTIN MOIST CONT (%	TION DM MUM URE ENT	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
15/05/20	1		1.92	18.0	96.5	1.99	17.5	175	0.5 V	Vetter	102.5	0	0	0
15/05/20	2		2.01	15.0	99.0	2.04	17.0	175	1.5	Drier	90.5	0	0	300
15/05/20	3	Refer to #1992/317 for	1.95	14.5	97.0	2.01	17.0	175	2.5	Drier	85.0	0	0	0
-	-	locations.	-	-	-	-	-	-	-		-	-	-	-
-	-		-	-	-	-	-	-	-		-	I	-	-
-	-		-	-	-	-	-	-	-		-	-	-	-
NOTES:	Claye	ey Fill Ex. Onsite				Compactio	n specimens	s sampled	l after o	comp	paction.			
	Test s	ites located - Geolab Procedure 4, F	Part 4.4.			Start Time:	8.18am	Finish Tir	ne: 8.3	31am				
A Hilf Rap	id Co	mpaction test was carried out on	a sample	taken from	each Field	Density loca	ation to obta	in the Co	mpacti	on Pa	arameters t	abulate	d on this	Report.
						Moistu	re Content:	AS 1289	2.1.1					
Soil Layer	thick	ness: 200mm				Compa	action Test:	AS 1289	5.7.1			M	1D	
Hilf Densi	ty Rat	io and Hilf Moisture Variation ,Hi	If Adjusted	d (APCWD)	& Peak (PO	CWD) Conv	erted Wet D	ensity AS	5 1289	5.7.1		1	100	
Field Den	sity, N	uclear Gauge: AS 1289 5.8.1				Accredite	d for complian	ce with ISO	/IEC			MIC	K CROV	VE
Materials Sampled : AS 1289 1.2.1 Clause 6.4(b) NATA Accreating for compliance with ISO/IEC (Approved Signatory)										atory)				
Materials Sampled . AS 1269 1.2.1 Glause 0.4(b) Materials Sampled . AS 1269 1.2.1 Glause 0.4(b) Materials Sampled . AS 1269 1.2.1 Glause 0.4(b) MATA Accredited Laboratory Number 14561 Issue Date: 20/5/2020												2020		





DRAPERS - Wandana Estate Stage 2A

REPORT NO.: # 1992/318

GEOTECHNICAL LABORATORIES ACN 102 571 077 14 Ravenhall Way, Ravenhall, Vic 3023

LOCATION: Email: info@geolab.com.au PH: (03) 8361-9140

VARIATION HILF STANDARD STANDARD FIELD FIELD PROBE FROM DATE DENSITY PCWD OPTIMUM MOISTURE WET WET APPROX. DEPTH WET MOISTURE DEPTH OPTIMUM TEST OF TEST LOCATION RATIO OR MOISTURE RATIO +19mm ⊦37.5mm **BELOW FINISH** NUM. DENSITY CONTENT SETTING MOISTURE TESTS STANDARD APCWD CONTENT LEVEL (mm) (%) (%) (%) CONTENT (t/m³) (%) (mm) (%) (t/m³) (%) (%) 18/05/20 2.05 18.5 96.0 2.13 17.0 175 2.0 Wetter 111.5 0 0 200 1 2 2.0 Drier 0 18/05/20 2.00 16.5 96.0 2.08 18.5 175 90.0 0 0 *Refer to #1992/319 for* 3 18/05/20 1.94 13.5 95.0 1.5 Drier 0 0 2.04 15.0 175 89.5 0 approx. test site _ -_ _ _ _ _ _ _ locations. -----_ _ ----_ _ _ -NOTES: Clayey Fill Ex. Onsite Compaction specimens sampled after compaction. Start Time: 8.10am Finish Time: 8.45am Test sites located - Geolab Procedure 4, Part 4.4. A Hilf Rapid Compaction test was carried out on a sample taken from each Field Density location to obtain the Compaction Parameters tabulated on this Report. Moisture Content: AS 1289 2.1.1 Soil Laver thickness: 200mm Compaction Test: AS 1289 5.7.1 Hilf Density Ratio and Hilf Moisture Variation, Hilf Adjusted (APCWD) & Peak (PCWD) Converted Wet Density AS 1289 5.7.1 MICK CROWE Field Density, Nuclear Gauge: AS 1289 5.8.1 Accredited for compliance with ISO/IEC NATA (Approved Signatory) Materials Sampled : AS 1289 1.2.1 Clause 6.4(b) 17025 - Testing NATA Accredited Laboratory Number 14561 ¥ Issue Date: 20/5/2020 ACCREDITED FOR COMPETENCI *





GEOTECHNICAL LABORATORIES ACN 102 571 077 14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 1992/332

LOCATION:

DRAPERS - Wandana Estate Stage 2A

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIA FR OPT MOIS CON	ATION OM IMUM TURE TENT %)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)	
11/09/20	1		1.85	21.5	96.0	1.92	23.5	175	1.5	Drier	92.5	0	0	0	
11/09/20	2		1.98	17.0	99.0	1.99	18.0	175	1.0	Drier	93.5	0	0	300	
11/09/20	3	Refer to #1992/333 for	1.99	18.0	102.0	1.96	18.0	175	0.0	Drier	100.0	0	0	800	
-	-	locations.	-	-	-	-	-	-	-		-	-	-	-	
-	-		-	-	-	-	-	-	-		-	-	-	-	
-	-		-	-	-	-	-	-	-		-	-	-	-	
NOTES:	Claye	ey Fill Ex. Onsite				Compaction	n specimen	s samplec	l after	comp	paction.				
	Test s	sites located - Geolab Procedure 4, I	Part 4.4.			Start Time:	8:21am	Finish Tirr	ne: 8:3	37am					
A Hilf Rap	oid Co	mpaction test was carried out on	a sample	taken from	each Field	Density loca	ation to obta	ain the Co	mpac	tion P	arameters t	tabulate	d on this	Report.	
						Moistu	re Content:	AS 1289	2.1.1						
Soil Laye	thick	ness: 200mm				Compa	action Test:	AS 1289	5.7.1			M	la		
Hilf Densi	ty Rat	io and Hilf Moisture Variation ,Hi	lf Adjusted	d (APCWD)	& Peak (P	CWD) Conv	erted Wet D	Density AS	5 1289	9 5.7.1	l	1	100		
Field Den	sity, N	luclear Gauge: AS 1289 5.8.1		Accredited	l for complian	ce with ISO	/IEC			MIC	K CROV	/E			
Materials	Samp	led: AS 1289 1.2.1 Clause 6.4(h	NATA	<u>17025 - Te</u>	esting					(Approv	ved Sign	atory)			
ACCREDIED FOR NATA Accredited Laboratory Num										<i>Iumber 14561</i> Issue Date: 16/9/2020					
*					COMPETENCE										





GEOTECHNICAL LABORATORIES ACN 102 571 077 14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 1992/334

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
15/09/20	1		2.00	20.5	102.5	1.95	19.0	175	1.0 Wetter	106.5	0	0	0
15/09/20	2		2.02	20.0	98.5	2.06	17.5	175	2.5 Wetter	113.5	0	0	0
15/09/20	3	Refer to #1992/335 for	2.07	21.0	101.5	2.03	19.0	175	2.0 Wetter	110.0	0	0	0
-	-	approx. test site locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
NOTES:	Claye	ey Fill Ex. Onsite				Compaction	n specimens	s sampled	d after comp	paction.			
	Test s	sites located - Geolab Procedure 4, I	Part 4.4.			Start Time:	9:30am	Finish Tir	me: 9:51am				
A Hilf Rap	oid Co	mpaction test was carried out on	a sample	taken from	each Field	Density loca	ation to obta	ain the Co	mpaction P	arameters 1	tabulate	d on this	s Report.
						Moistu	re Content:	AS 1289	2.1.1				
Soil Layer	thick	ness: 200mm				Compa	action Test:	AS 1289	5.7.1		M	ID	
Hilf Densi	ty Rat	io and Hilf Moisture Variation ,Hi	& Peak (P0	CWD) Conv	erted Wet D	Density AS	6 1289 5.7.1		1	-per			
Field Den	sity, N	luclear Gauge: AS 1289 5.8.1		Accredited	l for complian	ce with ISO	/IFC		MIC	K CROV	VE		
Materials	Samp	led : AS 1289 1.2.1 Clause 6.4(k	NATA	<u>17025 - Te</u>	e <u>sting</u>	<u>ee wun 150</u>			(Approv	ved Sign	atory)		
ACCREDITED FOR NATA Accredited Laboratory Number 14561 Issue Date: 16/9/2020										2020			
ACCREDITE FOR TECHNICAL COMPETENCE													





GEOTECHNICAL LABORATORIES ACN 102 571 077 14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 1992/338

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m ³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIA FR OPT MOIS CON	ATION OM IMUM STURE TENT %)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
20/10/20	1		2.17	13.0	101.5	2.14	13.5	175	0.5	Drier	96.5	0	0	600
20/10/20	2		2.10	16.5	100.5	2.09	16.0	175	0.0	Wetter	101.5	0	0	200
20/10/20	3	Refer to #1992/339 for	2.16	17.0	104.0	2.07	16.5	175	0.5	Wetter	104.5	0	0	300
-	-	approx. test site locations.	-	-	-	-	-	-	-		-	-	-	-
-	-		-	-	-	-	-	-	-		-	I	-	-
-	-		-	-	-	-	-	-	-		-	-	-	-
NOTES:	Claye	ey Fill Ex. Onsite				Compaction	npaction specimens sampled after compaction.							
	Test s	sites located - Geolab Procedure 4, F	Part 4.4.			Start Time: 10:10am Finish Time: 10:30am								
A Hilf Rap	oid Co	mpaction test was carried out on	a sample	taken from	each Field	Density loca	ation to obta	in the Co	mpact	tion Pa	arameters t	abulate	d on this	Report.
						Moistu	re Content:	AS 1289	2.1.1					
Soil Laye	r thicki	ness: 200mm				Compa	action Test:	AS 1289	5.7.1			M	1D	
Hilf Densi	ty Rat	io and Hilf Moisture Variation ,Hil	f Adjusted	d (APCWD)	& Peak (PO	CWD) Conv	erted Wet D	ensity AS	5 1289	9 5.7.1		· [per	
Field Den	sity, N	luclear Gauge: AS 1289 5.8.1		Accredited	l for complian	ce with ISO	/IFC			MIC	K CROV	VE.		
Materials	Samp	led: AS 1289 1.2.1 Clause 6.4(k	NATA	<u>17025 - Te</u>	e <u>sting</u>	<u>ee waa 150</u>	<u>nne</u>			(Approv	ed Sign	atory)		
₩			NATA Accredited Laboratory Number 14561 Issue Date: 26/10/2020						/2020					
*					TECHNICAL COMPETENCE									





GEOTECHNICAL LABORATORIES ACN 102 571 077 14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140 REPORT NO.: # 1992/340

LOCATION:

DRAPERS - Wandana Estate Stage 2A

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
26/10/20	1		2.05	19.0	100.5	2.04	19.0	175	0.0 Drier	100.0	0	0	0
26/10/20	2		2.22	15.0	105.5	2.10	15.5	175	0.5 Drier	97.0	0	0	0
26/10/20	3	Refer to #1992/341 for	2.13	18.5	102.0	2.09	18.0	175	0.5 Wette	r 102.5	0	0	200
-	-	approx. test sue locations.	-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
NOTES:	Claye	ey Fill Ex. Onsite	Port / /			Compaction	n specimen:	s sampled Finish Tir	d after com	paction.			
A Hilf Bar	hid Co	mpaction test was carried out on	a sample	taken from	each Field	Density loc:	ation to obta	in the Co	mpaction P	arameters i	tabulate	d on this	Report
			a campio			Moistu	re Content:	AS 1289	2.1.1		abarato		
Soil Laye	r thicki	ness: 200mm				Compa	action Test:	AS 1289	5.7.1		М	In.	
Hilf Densi	ty Rat	io and Hilf Moisture Variation ,Hi	CWD) Conv	erted Wet D	Density AS	5 1289 5.7. ⁻	1	1	ya				
Field Den	sity, N	luclear Gauge: AS 1289 5.8.1	Accredited	l for complian	ce with ISO	/IEC		MIC	K CROW	/E			
Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)							esting				(Approv	ved Signa	atory)
★ <u>NATA Accredited Laboratory Number 14561</u> Issue Date: 30/10/2020										2020			
*					COMPETENCE								





GEOTECHNICAL LABORATORIES ACN 102 571 077 14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 1992/344

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIA FRC OPTIN MOIST CONT (%	TION M IUM URE ENT)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
27/10/20	1		2.07	18.0	100.5	2.05	18.0	175	0.0	Drier	98.5	0	0	200
27/10/20	2		2.07	17.5	99.5	2.08	17.5	175	0.0	Drier	100.0	0	0	200
27/10/20	3	Refer to #1992/345 for	2.12	16.0	104.0	2.04	16.5	175	0.5	Drier	96.0	0	0	0
-	-	locations.	-	-	-	-	-	-	-		-	-	-	-
-	-		-	-	-	-	-	-	-		-	-	-	-
-	-		-	-	-	-	-	-	-		-	-	-	-
NOTES:	Claye	ey Fill Ex. Onsite	-			Compactio	n specimen	s sampled	d after o	comp	baction.	-		
	Test s	sites located - Geolab Procedure 4, I	Part 4.4.			Start Time:	12:00pm	Finish Ti	me: 12	:20p	m			
A Hilf Rap	oid Co	mpaction test was carried out on	a sample	taken from	each Field	Density loca	ation to obta	ain the Co	mpacti	on P	arameters t	tabulate	d on this	s Report.
						Moistu	re Content:	AS 1289	2.1.1					
Soil Laye	thick	ness: 200mm				Compa	action Test:	AS 1289	5.7.1			M	LA	
Hilf Densi	ty Rat	io and Hilf Moisture Variation ,Hi	lf Adjusted	d (APCWD)	& Peak (P	CWD) Conv	erted Wet D	Density AS	5 1289	5.7.1	l	1		
Field Density, Nuclear Gauge: AS 1289 5.8.1							d for complian	ce with ISO	/IEC			MIC	K CROV	VE
Materials Sampled : AS 1289 1.2.1 Clause 6.4(b)												(Approv	ved Sign	atory)
ACCREDITED FOR NATA Accredited Laboratory Number 14561 Issue Date: 30/10/2020											/2020			
*					COMPETENCI									





GEOTECHNICAL LABORATORIES ACN 102 571 077 14 Ravenhall Way, Ravenhall, Vic 3023 Email: info@geolab.com.au PH: (03) 8361-9140

REPORT NO.: # 1992/401

DATE OF TESTS	TEST NUM.	TEST LOCATION	FIELD WET DENSITY (t/m³)	FIELD MOISTURE CONTENT (%)	HILF DENSITY RATIO STANDARD (%)	STANDARD PCWD OR APCWD (t/m³)	STANDARD OPTIMUM MOISTURE CONTENT (%)	PROBE DEPTH SETTING (mm)	VARIATION FROM OPTIMUM MOISTURE CONTENT (%)	MOISTURE RATIO (%)	WET +19mm (%)	WET +37.5mm (%)	APPROX. DEPTH BELOW FINISH LEVEL (mm)
19/04/21	1		1.94	19.5	100.0	1.94	20.0	175	0.5 Drier	97.5	0	0	150
19/04/21	2		1.94	19.0	100.0	1.94	20.0	175	1.0 Drier	94.0	0	0	300
19/04/21	3	Refer to #1992/402 for	1.94	19.5	97.5	1.99	19.5	175	0.0 Wette	r 101.0	0	0	150
19/04/21	4	locations.	1.90	21.5	98.5	1.92	22.5	175	0.5 Drier	96.5	0	0	300
-	-		-	-	-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-	-	-	-	-	-
NOTES:	Claye	ey Fill Ex. Onsite				Compactio	n specimen	s sampled	d after com	paction.			
	Test s	sites located - Geolab Procedure 4, I	Part 4.3.			Start Time:	1:55pm	Finish Tin	ne: 2:30pm				
A Hilf Rap	oid Co	mpaction test was carried out on	a sample	taken from	each Field	Density loca	ation to obta	ain the Co	mpaction P	arameters	tabulate	d on this	s Report.
						Moistu	re Content:	AS 1289	2.1.1				
Soil Layer	thick	ness: 200mm				Compa	action Test:	AS 1289	5.7.1		M	LQ	
Hilf Densi	ty Rat	io and Hilf Moisture Variation ,Hi	If Adjusted	d (APCWD)	& Peak (P	CWD) Conv	erted Wet D	Density AS	6 1289 5.7. ⁻	1	ľ	/~~	
Field Density, Nuclear Gauge: AS 1289 5.8.1 Accredited for compliance with ISO/IEC MICK CROWE										VE			
Materials Sampled : AS 1289 1.2.1 Clause 6.4(b) (Approved Signatory)									atory)				
★ ACCREDITED FOR TECHNICAL COMPETENCE NATA Accredited Laboratory Number 14561 Issue Date: 23/4/2021									2021				

