Haynes Consulting Engineers Pty Ltd ABN No. 53613630078 P.O Box 549 Noosa Heads 4567

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## LEVEL 2 CERTIFICATION

7 Lots at Meadow View Court, Pie Creek Lots 30-36, on SP323060

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11th March 2021

To: Roberts Bros. Pty Ltd (by email)

## LEVEL 2 CERTIFICATION

## 7 Lots at Meadow View Court, Pie Creek Lots 30-36, on SP323060

This letter provides Level 2 certification to AS3798-2007 'Guidelines on earthworks for commercial and residential developments' and includes the results of testing conducted during filling earthworks on proposed lots Lots 30-36, on SP323060.

Roberts Brothers Pty Ltd personnel and sub-contractors undertook the cut to fill and compaction using existing site material to create house sites.

Inspections of surface stripping (to remove organic topsoil), removal of unsuitable materials and subgrade proof rolling prior to filling were completed.

Determination of field density of compacted fill in accordance with AS1289 was completed by Douglas Partners Pty Ltd as attached. The compaction tests show that results were above the required 95% Standard Compaction. Test locations are shown on the attached plans 1803 sheet numbers S5A-S10 to S5A-S12 inclusive Revision 0. One test on lot 35 was originally 92% compaction, so the area was re-compacted and re-tested and passed at 98%.

This certification only provides an assurance of the density of the fill tested, and suitability of the stripped surface for placement of that fill. This certification does not address any other issues that may be relevant to foundation and building construction.

Please refer to report limitations attached, the Client in this instance is Roberts Brothers Pty Ltd.

Regards,

- Ro

A Haynes BE Civil (Hons) RPEQ MIEAust CPEng

File No 1803

## LIMITATIONS

This report is provided for the sole use by the Client and its professional advisers. No responsibility whatsoever for the contents of this report will be accepted to any person other than the Client. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the responsibility of such third parties. Haynes Consulting Engineers accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Haynes Consulting Engineers did not perform a complete assessment of all possible conditions or circumstances that may exist at the site referenced in the report. If a service is not expressly indicated, do not assume it has been provided. If a matter is not addressed, do not assume that any determination has been made by Haynes Consulting Engineers in regards to it.

Conditions may exist which were undetectable given that economic and time constraints limit the practical extent of investigation. Variations in conditions may occur between investigation locations, and there may be special conditions pertaining to the site which have not been revealed by the investigation and which have not therefore been taken into account in the report.

Where variations exist on site, additional studies and actions may be required. Haynes Consulting Engineers's opinions are based upon information that existed at the time that the works were performed. The passage of time, man-made or natural events, may alter the site conditions. It is understood that the Services undertaken allowed Haynes Consulting Engineers to form an opinion of the actual conditions of the site at the time the site was visited and cannot be used to assess the effect of any subsequent changes in the quality of the site, or its surroundings, or any laws or regulations.

Any assessments made in this report are based on the conditions indicated from published sources and the findings of the investigation described. Actual subsurface conditions may differ from those indicated in the report (e.g. between boreholes or test pits). No warranty is included, either express or implied, that the actual conditions will conform exactly to the assessments contained in this report.

Where data supplied by the client or other external sources, including previous site investigation data, have been used, it has been assumed that the information is correct unless otherwise stated. No responsibility is accepted by Haynes Consulting Engineers for incomplete or inaccurate data supplied by others.

Report Number:	681742.00-1
Issue Number:	1
Date Issued:	18/09/2020
Client:	Roberts Bros Pty Ltd
	123 Cooroy Belli Creek Road, Cooroy 4563
Contact:	David Roberts
Project Number:	681742.00
Project Name:	Proposed Subdivision
Project Location:	Greendale, Stage 5, Pie Creek
Work Request:	10508
Date Sampled:	03/09/2020
Dates Tested:	04/09/2020 - 11/09/2020
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	Minimum 95% Standard Hilf Density Ratio
Lot Number:	Lot 30
Material Source:	Onsite

## **Douglas Partners** Geotechnics | Environment | Groundwater

Geotechnics | Environment | Groundwater Douglas Partners Pty Ltd Sunshine Coast Laboratory 1/28 Kessling Avenue Kunda Park QLD 4556 Phone: (07) 5351 0400 Fax: (07) 5351 0409 Email: Shae.Harry@douglaspartners.com.au Accredited for compliance with ISO/IEC 17025 - Testing

NATA

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Approved Signatory: Shae Harry Laboratory Manager NATA Accredited Laboratory Number: 828

Compaction	Control AS	1289 5.7	7.1 & 5.8.1

Sample Number	SS-10508A	SS-10508B	
Date Tested	03/09/2020	03/09/2020	
Time Tested	10:50	10:55	
Test Request #/Location	Lot 30	Lot 30	
Easting	461869	411854	
Northing	7096466	7096451	
Elevation (m)	1.2 < F.L.	0.4 < F.L.	
Soil Description	Sandy Clay	Sandy Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m <sup>3</sup>	1.84	1.84	
Field Dry Density (FDD) t/m <sup>3</sup>	**	**	
Peak Converted Wet Density t/m <sup>3</sup>	1.93	1.94	
Adjusted Peak Converted Wet Density	**	**	
Moisture Variation (Wv) %	0.0	0.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	95.5	95.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

## **Moisture Variation Note:**

Report Number:	681742.00-2
Issue Number:	1
Date Issued:	01/10/2020
Client:	Roberts Bros Pty Ltd
	123 Cooroy Belli Creek Road, Cooroy 4563
Contact:	David Roberts
Project Number:	681742.00
Project Name:	Proposed Subdivision
Project Location:	Greendale, Stage 5, Pie Creek
Work Request:	10608
Date Sampled:	16/09/2020
Dates Tested:	17/09/2020 - 21/09/2020
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	Minimum 95% Standard Hilf Density Ratio
Lot Number:	36
Material Source:	Onsite

# **Douglas Partners** Geotechnics | Environment | Groundwater

Douglas Partners Pty Ltd Sunshine Coast Laboratory 1/28 Kessling Avenue Kunda Park QLD 4556 Phone: (07) 5351 0400 Fax: (07) 5351 0499 Email: martin.cook@douglaspartners.com.au Accredited for compliance with ISO/IEC 17025 - Testing

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Approved Signatory: Martin Cook Assistant Laboratory Manager NATA Accredited Laboratory Number: 828

## n Control AS 1200 5 7 1 8 5 9 1

Sample Number	SS-10608A	SS-10608B	
Date Tested	16/09/2020	16/09/2020	
Time Tested	13:40	13:50	
Test Request #/Location	Bulk Earthworks - Lot 36	Bulk Earthworks - Lot 36	
Easting	461832	461816	
Northing	709673	7096379	
Elevation (m)	0.3 < F.L.	1.2 < F.L.	
Soil Description	Sandy Clay	Sandy Clay	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m <sup>3</sup>	1.98	1.88	
Field Dry Density (FDD) t/m <sup>3</sup>	**	**	
Peak Converted Wet Density t/m <sup>3</sup>	1.88	1.98	
Adjusted Peak Converted Wet Density t/m3	**	**	
Moisture Variation (Wv) %	5.5	5.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	105.5	95.5	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

## **Moisture Variation Note:**

681742.00-5
1
26/10/2020
Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
David Roberts
681742.00
Proposed Subdivision
Greendale, Stage 5, Pie Creek
11003
21/10/2020 - 23/10/2020
AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Minimum 95% Standard Hilf Density Ratio
31
Onsite

# **Douglas Partners** Geotechnics | Environment | Groundwater

Douglas Partners Pty Ltd Sunshine Coast Laboratory 1/28 Kessling Avenue Kunda Park QLD 4556 Phone: (07) 5351 0400 Fax: (07) 5351 0499 Email: martin.cook@douglaspartners.com.au Accredited for compliance with ISO/IEC 17025 - Testing

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Approved Signatory: Martin Cook Assistant Laboratory Manager NATA Accredited Laboratory Number: 828

Compaction Control AS 1289 5.7.1 & 5.8	8.1	
Sample Number	SS-11003A	
Date Tested	21/10/2020	
Time Tested	10:30	
Test Request #/Location	Lot 31	
Easting	461816	
Northing	7096453	
Elevation (m)	0.6 <f.l< td=""><td></td></f.l<>	
Soil Description	Sandy clay	
Test Depth (mm)	150	
Sieve used to determine oversize (mm)	19.0	
Percentage of Wet Oversize (%)	0	
Field Wet Density (FWD) t/m <sup>3</sup>	1.98	
Field Dry Density (FDD) t/m <sup>3</sup>	**	
Peak Converted Wet Density t/m <sup>3</sup>	1.92	
Adjusted Peak Converted Wet Density	**	
Moisture Variation (Wv) %	1.5	
Adjusted Moisture Variation %	**	
Hilf Density Ratio (%)	103.5	
Compaction Method	Standard	
Report Remarks	**	

**Moisture Variation Note:** 

681742.00-6
1
11/11/2020
Roberts Bros Pty Ltd
123 Cooroy Belli Creek Road, Cooroy 4563
David Roberts
681742.00
Proposed Subdivision
Greendale, Stage 5, Pie Creek
11090
02/11/2020
02/11/2020 - 03/11/2020
AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Minimum 95% Standard Hilf Density Ratio
Onsite

## **Douglas Partners** Geotechnics | Environment | Groundwater

Geotechnics | Environment | Groundwater Douglas Partners Pty Ltd Sunshine Coast Laboratory 1/28 Kessling Avenue Kunda Park QLD 4556 Phone: (07) 5351 0400 Fax: (07) 5351 0499 Email: Shae.Harry@douglaspartners.com.au Accredited for compliance with ISO/IEC 17025 - Testing

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Approved Signatory: Shae Harry Laboratory Manager NATA Accredited Laboratory Number: 828

#### Compaction Control AS 1289 5.7.1 & 5.8.1 Sample Number SS-11090A SS-11090B Date Tested 02/11/2020 02/11/2020 Time Tested 09:00 09:05 Test Request #/Location **Bulk Earthworks Bulk Earthworks** Lot 35 Lot 35 Easting 461787 461787 Northing 7096393 7096385 Elevation (m) 0.3<F.L 0.8<F.L Clayey Sand Soil Description Clayey Sand Test Depth (mm) 150 150 Sieve used to determine oversize (mm) 19.0 19.0 Percentage of Wet Oversize (%) 0 0 Field Wet Density (FWD) t/m<sup>3</sup> 1.80 1.75 Field Dry Density (FDD) t/m<sup>3</sup> \*\* \*\* Peak Converted Wet Density t/m<sup>3</sup> 1.79 1.90 Adjusted Peak Converted Wet Density t/m<sup>3</sup> \*\* \*\* Moisture Variation (Wv) % 3.5 2.0 Adjusted Moisture Variation % \*\* \*\* 92.0 Hilf Density Ratio (%) 100.5 **Compaction Method** Standard Standard Report Remarks \*\*

## **Moisture Variation Note:**

Report Number:	681742.00-7
Issue Number:	1
Date Issued:	11/11/2020
Client:	Roberts Bros Pty Ltd
	123 Cooroy Belli Creek Road, Cooroy 4563
Contact:	David Roberts
Project Number:	681742.00
Project Name:	Proposed Subdivision
Project Location:	Greendale, Stage 5, Pie Creek
Work Request:	11092
Date Sampled:	02/11/2020
Dates Tested:	02/11/2020 - 03/11/2020
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	Minimum 95% Standard Hilf Density Ratio
Material Source:	Onsite

## **Douglas Partners** Geotechnics | Environment | Groundwater

Geotechnics | Environment | Groundwater Douglas Partners Pty Ltd Sunshine Coast Laboratory 1/28 Kessling Avenue Kunda Park QLD 4556 Phone: (07) 5351 0400 Fax: (07) 5351 0499 Email: Shae.Harry@douglaspartners.com.au Accredited for compliance with ISO/IEC 17025 - Testing

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Approved Signatory: Shae Harry Laboratory Manager NATA Accredited Laboratory Number: 828

#### Compaction Control AS 1289 5.7.1 & 5.8.1 Sample Number SS-11092A SS-11092B Date Tested 02/11/2020 02/11/2020 Time Tested 08:45 08:50 Test Request #/Location **Bulk Earthworks Bulk Earthworks** Lot 32 Lot 32 Easting 461746 461754 Northing 7096460 7096441 Elevation (m) 0.8 < F.L. 0.3 < F.L Soil Description Clayey Sand Clayey Sand Test Depth (mm) 150 150 Sieve used to determine oversize (mm) 19.0 19.0 Percentage of Wet Oversize (%) 0 0 Field Wet Density (FWD) t/m<sup>3</sup> 1.74 2.21 Field Dry Density (FDD) t/m<sup>3</sup> \*\* \*\* Peak Converted Wet Density t/m<sup>3</sup> 1.81 2.10 Adjusted Peak Converted Wet Density t/m<sup>3</sup> \*\* \*\* Moisture Variation (Wv) % 3.0 1.0 Adjusted Moisture Variation % \*\* \*\* 105.5 Hilf Density Ratio (%) 96.0 **Compaction Method** Standard Standard Report Remarks \*\*

## **Moisture Variation Note:**

Report Number:	681742.00-8
Issue Number:	1
Date Issued:	11/11/2020
Client:	Roberts Bros Pty Ltd
	123 Cooroy Belli Creek Road, Cooroy 4563
Contact:	David Roberts
Project Number:	681742.00
Project Name:	Proposed Subdivision
Project Location:	Greendale, Stage 5, Pie Creek
Work Request:	11093
Date Sampled:	02/11/2020
Dates Tested:	02/11/2020 - 03/11/2020
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	Minimum 95% Standard Hilf Density Ratio
Material Source:	Onsite

# **Douglas Partners** Geotechnics | Environment | Groundwater

Douglas Partners Pty Ltd Sunshine Coast Laboratory 1/28 Kessling Avenue Kunda Park QLD 4556 Phone: (07) 5351 0400 Fax: (07) 5351 0499 Email: Shae.Harry@douglaspartners.com.au Accredited for compliance with ISO/IEC 17025 - Testing

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Approved Signatory: Shae Harry Laboratory Manager NATA Accredited Laboratory Number: 828

Compaction Control AS 1289 5.7.1 & 5.8	8.1	
Sample Number	SS-11093A	
Date Tested	02/11/2020	
Time Tested	08:30	
Test Request #/Location	Bulk Earthworks Lot 31	
Easting	461799	
Northing	7096466	
Elevation (m)	0.3 < F.L.	
Soil Description	Clayey Sand	
Test Depth (mm)	150	
Sieve used to determine oversize (mm)	19.0	
Percentage of Wet Oversize (%)	0	
Field Wet Density (FWD) t/m <sup>3</sup>	1.89	
Field Dry Density (FDD) t/m <sup>3</sup>	**	
Peak Converted Wet Density t/m <sup>3</sup>	1.98	
Adjusted Peak Converted Wet Density t/m3	**	
Moisture Variation (Wv) %	-1.0	
Adjusted Moisture Variation %	**	
Hilf Density Ratio (%)	95.5	
Compaction Method	Standard	
Report Remarks	**	

### **Moisture Variation Note:**

Report Number:	681742.00-9
Issue Number:	1
Date Issued:	11/11/2020
Client:	Roberts Bros Pty Ltd
	123 Cooroy Belli Creek Road, Cooroy 4563
Contact:	David Roberts
Project Number:	681742.00
Project Name:	Proposed Subdivision
Project Location:	Greendale, Stage 5, Pie Creek
Work Request:	11094
Date Sampled:	02/11/2020
Dates Tested:	02/11/2020 - 03/11/2020
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	Minimum 95% Standard Hilf Density Ratio
Material Source:	Onsite

## **Douglas Partners** Geotechnics | Environment | Groundwater

Geotechnics I Environment I Groundwater Douglas Partners Pty Ltd Sunshine Coast Laboratory 1/28 Kessling Avenue Kunda Park QLD 4556 Phone: (07) 5351 0400 Fax: (07) 5351 0499 Email: Shae.Harry@douglaspartners.com.au Accredited for compliance with ISO/IEC 17025 - Testing

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Approved Signatory: Shae Harry Laboratory Manager NATA Accredited Laboratory Number: 828

# Specification: Minimum 95% Standard Hilf Density Ratio Material Source: Onsite Compaction Control AS 1289 5.7.1 & 5.8.1 Sample Number SS-11094A

Sample Number	SS-11094A	SS-11094B	
Date Tested	02/11/2020	02/11/2020	
Time Tested	08:15	08:20	
Test Request #/Location	Bulk Earthworks Lot 34	Bulk Earthworks Lot 34	
Easting	461650	461691	
Northing	7096391	7096385	
Elevation (m)	0.6 < F.L.	0.3 < F.L.	
Soil Description	Clayey Sand	Clayey Sand	
Test Depth (mm)	150	150	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m <sup>3</sup>	1.87	1.99	
Field Dry Density (FDD) t/m <sup>3</sup>	**	**	
Peak Converted Wet Density t/m <sup>3</sup>	1.97	1.95	
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	
Moisture Variation (Wv) %	1.5	0.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	95.0	102.0	
Compaction Method	Standard	Standard	
Report Remarks	**	**	

## **Moisture Variation Note:**

Report Number:	681742.00-15
Issue Number:	1
Date Issued:	26/11/2020
Client:	Roberts Bros Pty Ltd
	123 Cooroy Belli Creek Road, Cooroy 4563
Contact:	David Roberts
Project Number:	681742.00
Project Name:	Proposed Subdivision
Project Location:	Greendale, Stage 5, Pie Creek
Work Request:	11187
Date Sampled:	09/11/2020
Dates Tested:	10/11/2020 - 16/11/2020
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	Minimum 95% Standard Hilf Density Ratio
Lot Number:	33
Material Source:	Onsite

# **Douglas Partners** Geotechnics | Environment | Groundwater

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Who

Approved Signatory: Martin Cook Assistant Laboratory Manager NATA Accredited Laboratory Number: 828

#### Compaction Control AS 1289 5.7.1 & 5.8.1 Sample Number SS-11187A SS-11187B Date Tested 09/11/2020 09/11/2020 Time Tested 11:05 11:10 Test Request #/Location Lot 33 Lot 33 Easting 461671 461685 Northing 7096438 7096439 Elevation (m) 0.7 < F.L 0.2 < F.L Soil Description Sandy Clay Sandy Clay Test Depth (mm) 150 150 Sieve used to determine oversize (mm) 19.0 19.0 Percentage of Wet Oversize (%) 0 0 Field Wet Density (FWD) t/m<sup>3</sup> 1.77 1.92 Field Dry Density (FDD) t/m<sup>3</sup> \*\* Peak Converted Wet Density t/m<sup>3</sup> 1.81 1.86 Adjusted Peak Converted Wet Density \*\* \*\* t/m Moisture Variation (Wv) % -2.0 4.0 ++ \*\* Adjusted Moisture Variation % Hilf Density Ratio (%) 98.0 103.0 **Compaction Method** Standard Standard \*\* \*\* Report Remarks

## **Moisture Variation Note:**

Report Number:	681742.00-16
Issue Number:	1
Date Issued:	26/11/2020
Client:	Roberts Bros Pty Ltd
	123 Cooroy Belli Creek Road, Cooroy 4563
Contact:	David Roberts
Project Number:	681742.00
Project Name:	Proposed Subdivision
Project Location:	Greendale, Stage 5, Pie Creek
Work Request:	11188
Date Sampled:	09/11/2020
Dates Tested:	10/11/2020 - 13/11/2020
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks:	Retest of SS-11090B
Specification:	Minimum 95% Standard Hilf Density Ratio
Lot Number:	35
Material Source:	Onsite

# **Douglas Partners** Geotechnics | Environment | Groundwater

Douglas Partners Pty Ltd Sunshine Coast Laboratory 1/28 Kessling Avenue Kunda Park QLD 4556 Phone: (07) 5351 0400 Fax: (07) 5351 0499 Email: martin.cook@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

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Approved Signatory: Martin Cook Assistant Laboratory Manager

NATA Accredited Laboratory Number: 828

Whole

Compaction Control AS 1289 5.7.1 & 5.8	3.1	
Sample Number	SS-11188A	
Date Tested	09/11/2020	
Time Tested	11:20	
Test Request #/Location	Lot 35	
Easting	461788	
Northing	7096384	
Elevation (m)	0.3 < F.L.	
Soil Description	Sandy Clay	
Test Depth (mm)	150	
Sieve used to determine oversize (mm)	19.0	
Percentage of Wet Oversize (%)	0	
Field Wet Density (FWD) t/m <sup>3</sup>	1.89	
Field Dry Density (FDD) t/m <sup>3</sup>	**	
Peak Converted Wet Density t/m <sup>3</sup>	1.93	
Adjusted Peak Converted Wet Density t/m3	**	
Moisture Variation (Wv) %	1.0	
Adjusted Moisture Variation %	**	
Hilf Density Ratio (%)	98.0	
Compaction Method	Standard	
Report Remarks	**	

## **Moisture Variation Note:**



1	0 20 40 60m Scale 1:2000 @A3
	PLAN INDEX 1803–S5A–10 AS CONSTRUCTED OVERALL PLAN 1803–S5A–11 AS CONSTRUCTED SURVEY LAYOUTS 1803–S5A–12 AS CONSTRUCTED SURVEY LAYOUTS
114 RUILLY COURT	
	CERTIFIED BY:
÷ ; ; ; ; ; ; ; ; ; ; ;	LEGEND         STAGE 5A EXTENT         PROPOSED ROAD KERB CONSTRUCTION         PROPOSED EASEMENT         Q100 OVERLAND FLOW LEVEL (NOTE THIS IS NOT A CREEK FLOOD EVENT). REFER TO OPW2020-1670 PLANS FOR CALCULATIONS AND DETAILS.         Image: Display the second data of
GREENDAL	EXISTING TELSTRA FROM DBYD (CONTRACTOR TO HAVE LOCATED PRIOR TO WORKS)     EXISTING UNDERGROUND ELECTRICAL FROM DBYD (CONTRACTOR TO HAVE LOCATED PRIOR TO WORKS)     EDOWING STACE 5Α EW/KC
Lots 30-36, 502 on SF Surveyed by Murray a AS CONSTR	2323060     1803       and Associates Pty Ltd     Sheet No Revision No.       RUCTED OVERALL PLAN     S5A-S100



