CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
PO Box 678 Croydon Vic 3136
Telephone: 9723 0744 Facsimile: 9723 0799

6 February 2014

Our Reference: 13278:PJF1898

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ASTON ESTATE (STAGE 10), CRAIGIEBURN

Please find attached our Report Nos 13278/R001 and 13278/R002 that relate to the field density testing that was conducted within the filled areas of Stage 10 of the above development. Stage 10 of the development is located to the immediate east of Vantage Boulevard in Craigieburn (refer to the attached drawing). The stripping and earthworks associated with Stage 10 was undertaken in September 2013.

The inspection and testing duties, which were performed by experienced geotechnical engineers and geotechnicians from this office, were undertaken in accordance with the Level 1 guidelines presented in AS 3798 - Guidelines on earthworks for commercial and residential developments. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement.

Prior to fill placement, the stripped surfaces were inspected to ensure that a firm foundation free of organic matter and the like was achieved. Any soft spots and unstable areas and the like that were encountered were removed down to a firm base and replaced with suitably compacted clays.

The fill materials during the recent construction phase were initially spread by a grader and then compacted in 0.3 to 0.35 metre (loose) lifts using a vibrating pad foot roller. A conventional truck mounted water cart assisted with moisture conditioning of the fill materials on an as required basis. The fill materials essentially comprised site won clays. Compaction testing of these materials was performed at regular intervals (both vertically and laterally) after fill placement to confirm that the method of fill placement was appropriate. Any areas that were deemed unsatisfactory were re-worked or given extra rolling to ensure that the compaction criteria was met. It should be noted that the attached test results relate to testing performed in early February 2014.

The purpose of performing Level 1 inspection and testing duties is to ensure the quality of the as constructed fill pad(s) and to both minimise the costs of extensive testing and eliminate any unnecessary time delays arising from the testing process. Hence, the provision of Level 1 duties allows the contractor to undertake the filling operation whilst the testing authority monitors the quality control process of the operation. As part of this latter process, the testing authority monitors the compaction methodology on a visual basis and undertakes a number of randomly placed spot checks (ie field density and associated compaction tests) to confirm that the adopted methodology is appropriate.

With respect to the frequency of field density testing, in a large scale operation (ie greater than 1500m^2), the guidelines presented in AS 3798 nominate a frequency of i) 1 test per layer per 2500m^2 or ii) 1 test per 500m^3 distributed reasonably evenly throughout the full depth and area of fill placement. As such, there is no requirement that a field density test be undertaken in each and every allotment.

The attached compaction results, which were located randomly throughout the depth and breadth of the filled areas in a similar manner to Item ii) above, are considered to be representative of the bulk fill materials that were placed within the Stage 10 works area by Winslow Constructors Pty Ltd during the aforementioned period. The locations of the test sites relative to the fill pads are noted on the attached test results (refer also to the accompanying drawing).

When interpreting the requirements of AS 2870 - Residential slabs and footings (2011), we are of the view that the bulk fill materials that have been placed across the filled areas of the allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

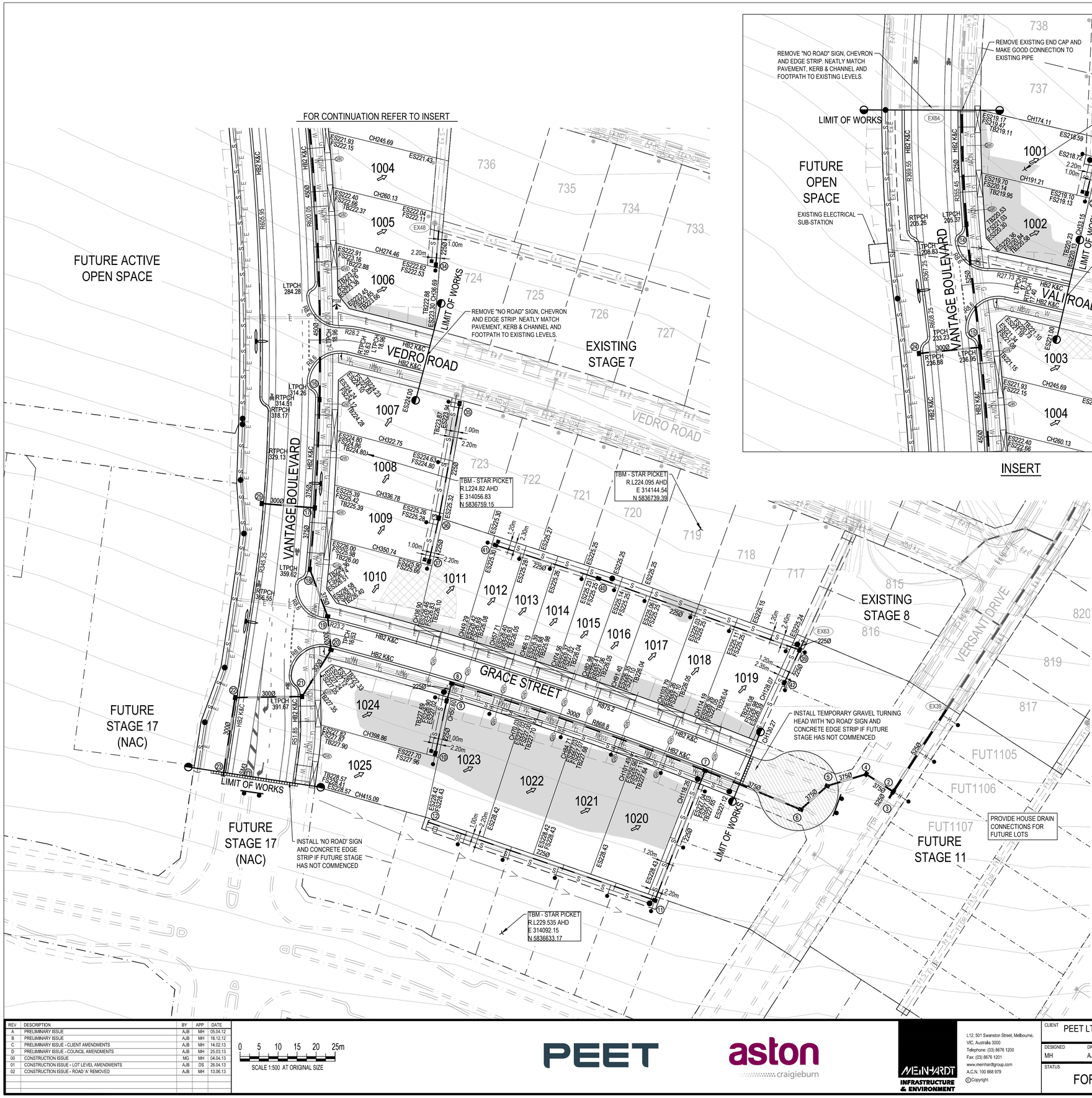
Accordingly, the fill materials would be deemed to comply with both the controlled fill requirements of Clause 1.8.13 of AS 2870 and the structural fill requirements of Clause 1.2.13 of AS 3798. Hence, reclassification of the filled allotments is permitted under Clause 2.5.3 (c) of AS 2870.

Please contact the undersigned if you require any additional information.

Yours faithfully,

Civil Geotechnical Services

Peter Fry



INSERT

ROADWORKS LEGEND

- KERB & CHANNEL - (AS NOTED)
- TRANSITION KERB
- PROPOSED DRIVEWAY CROSSING
- EXISTING CONSTRUCTION TO BE REMOVED
- NEW BATTER
- EXISTING STORMWATER DRAIN, PIT AND PROPERTY INLET
- OR
- STORMWATER DRAIN, PIT AND PROPERTY INLET
- SEWER, MAINTENANCE STRUCTURES AND PROPERTY CONNECTION
- SWALE DRAIN INVERT AND DIRECTION OF FLOW
- PERMANENT SURVEY MARK (PSM)
- TEMPORARY BENCH MARK (TBM)
- ES00.000 EXISTING SURFACE LEVEL
- FS00.000 FINISHED SURFACE LEVEL
- TB00.000 TOP OR TOE OF BATTER LEVEL
- STORMWATER PIT NO.
- PROPOSED RETAINING WALL
- THRESHOLD TREATMENT
- NEW FINISHED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN "NO ROAD" SIGN & BARRIER
- STREET SIGN
- LIMIT OF WORKS
- EXISTING ELECTRICITY
- EXISTING GAS
- EXISTING SEWER
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING NON-DRINKING WATER
- PROPOSED ELECTRICITY
- PROPOSED GAS
- PROPOSED BRANCH SEWER
- PROPOSED TELECOMMUNICATIONS
- PROPOSED WATER
- PROPOSED NON-DRINKING WATER
- FUTURE STORMWATER DRAIN
- FUTURE SEWER

GRADING LEGEND

- DIRECTION OF FALL
- LOT FILLING (FILL GREATER THAN 200mm DEEP)
- LOT CUT (CUT GREATER THAN 200mm DEEP)

WARNING
BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

WARNING
PROPOSED SERVICES

THE LOCATION AND EXTENT OF PROPOSED SERVICES IS INDICATIVE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. REFER TO AUTHORISED DOCUMENTATION BY RELEVANT AUTHORITY FOR CONSTRUCTION DETAILS

SERVICES OFFSET TABLE

STREET NAME	GAS	RECYCLED WATER	POTABLE WATER	TELCOM.	ELECTRICITY
VALI ROAD	2.10m S	2.50m S	3.00m S	1.85m N	Ex. 2.35m N
VEDRO ROAD	2.10m S	2.50m S	3.00m S	1.85m N	2.35m N
GRACE STREET	2.10m S	2.50m S	3.00m S	1.85m N	2.35m N
GIFT ROAD	2.10m W	2.50m W	3.00m W	1.85m E	2.35m E
VANTAGE BOULEVARD	2.10m E	2.80m E	3.70m E	1.85m W	2.55m W

REV	DESCRIPTION	BY	APP	DATE
A	PRELIMINARY ISSUE	AJB	MH	05.04.12
B	PRELIMINARY ISSUE	AJB	MH	18.12.12
C	PRELIMINARY ISSUE - CLIENT AMENDMENTS	AJB	MH	14.02.13
D	PRELIMINARY ISSUE - COUNCIL AMENDMENTS	AJB	MH	25.03.13
00	CONSTRUCTION ISSUE	MG	MH	04.04.13
01	CONSTRUCTION ISSUE - LOT LEVEL AMENDMENTS	AJB	DS	26.04.13
02	CONSTRUCTION ISSUE - ROAD 'A' REMOVED	AJB	MH	13.06.13

0 5 10 15 20 25m
SCALE 1:500 AT ORIGINAL SIZE

PEET

aston craigieburn

MEINHARDT INFRASTRUCTURE & ENVIRONMENT
L12, 501 Swanston Street, Melbourne, VIC, Australia 3000
Telephone: (03) 8676 1200
Fax: (03) 8676 1201
www.meinhardtgroup.com
A.C.N. 100 868 979

CLIENT: PEET LTD

DESIGNED	DRAWN	APPROVED	SCALE @ A1
MH	AJB	MH	1:500

STATUS: FOR CONSTRUCTION

PROJECT: ASTON ESTATE STAGE 10
HUME CITY COUNCIL

NORTH

TITLE: DETAIL PLAN

PROJECT No: 102419-10 MIE100

DRAWING No:

REV: 02

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	13278
		Report No	13278/R001
		Date Issued	06/05/14
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AG
Project	ASTON - STAGE 10	*Date tested*	05/02/14
Location	CRAIGIEBURN	*Checked by*	PJF

Feature	**EARTHWORKS**	*Layer thickness*	200mm	*Time:*	14:40

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**1**	**2**	**3**	**4**	**5**	**6**
Location		Lot 1014 Batter Area	Lot 1016 Batter Area	Lot 1019 Batter Area	Lots 1023 / 1024	Lots 1022 / 1023	Lots 1021 / 1022
Approximate depth below FSL							
Measurement depth	*mm*	175	175	175	175	175	175
Field wet density	*t/m³*	1.78	1.78	1.81	1.87	1.92	1.95
Field moisture content	*%*	-	-	-	-	-	-

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	6
Compactive effort		Standard					
Oversize rock retained on sieve	*mm*	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	*wet*	0	0	0	0	0	0
Peak Converted Wet Density	*t/m³*	1.84	1.86	1.88	1.89	1.89	1.89
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	5.5% dry	6.0% dry	7.5% dry	7.0% dry	7.0% dry	7.0% dry

Density Ratio (R_{HD})	*%*	**97.0**	**95.5**	**96.5**	**99.0**	**101.5**	**103.0**

Material description

No 1 - 6 Clay Fill

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	13278
		Report No	13278/R002
		Date Issued	06/02/14
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AG
Project	ASTON - STAGE 10	*Date tested*	05/02/14
Location	CRAIGIEBURN	*Checked by*	PJF

Feature	**EARTHWORKS**	*Layer thickness*	200mm	*Time:*	14:35

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**7**	**8**	**-**	**-**	**-**	**-**
Location		Lots 1020 / 1021	Lot 1002 south west				
Approximate depth below FSL							
Measurement depth	*mm*	175	175	-	-	-	-
Field wet density	*t/m³*	1.88	1.88	-	-	-	-
Field moisture content	*%*	-	-	-	-	-	-

Test procedure AS 1289.5.7.1

Test No		7	8	-	-	-	-
Compactive effort		Standard					
Oversize rock retained on sieve	*mm*	19.0	19.0	-	-	-	-
Percent of oversize material	*wet*	0	0	-	-	-	-
Peak Converted Wet Density	*t/m³*	1.83	1.85	-	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	-	-	-	-	-	-

Moisture Variation From Optimum Moisture Content	6.5% dry	5.0% dry	-	-	-	-

Density Ratio (R_{HD})	*%*	**103.0**	**102.0**	**-**	**-**	**-**	**-**

Material description

No 7 - 8 Clay Fill

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1001 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1001

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1001 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1002 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1002

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1002 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1013 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1013

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1013 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1014 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1014

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1014 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1015 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1015

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1015 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1016 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1016

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1016 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1017 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1017

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1017 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1018 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1018

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1018 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1019 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1019

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1019 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1020 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1020

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1020 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1021 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1021

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1021 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1022 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1022

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1022 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1023 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1023

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1023 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry

CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
6 ROSE AVENUE, CROYDON 3136
(PO BOX 678 CROYDON 3136)
TELEPHONE + 61 3 9723 0744
FACSIMILE + 61 3 9723 0799
EMAIL accounts@civilgeotech.com.au

FILL CERTIFICATE

PROJECT: Lot No 1024 (as per Drawing No 102419-10 MIE100)
Aston Estate – Stage 10
Via Vantage Boulevard, Craigieburn

CLIENT: Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

REPORT No: 13278/1024

DATE: 6 February 2014

SUMMARY

Civil Geotechnical Services were engaged by Winslow Constructors Pty Ltd to provide the inspection and testing services for the earthworks associated with Lot 1024 of the Aston Estate, Craigieburn in a manner which would satisfy the criteria for Level 1 inspection and testing duties as outlined in Section 8.2 of AS 3798 - Guidelines on earthworks for commercial and residential developments (2007). The project was classified as Type 1/2 requiring a minimum density ratio of 95.0% (standard compactive effort) within the areas of fill placement.

A site inspection was conducted prior to any fill being placed on the Lot. The fill materials were clayey in nature and would be deemed to be highly reactive.

On the completion of earthworks and after examining the test results and the materials used, we are of the opinion that the filling procedure conducted by Winslow Constructors Pty Ltd satisfied the requirements of AS 3798 in regard to the placement of fill on a Type 1/2 Project.

Accordingly, when classifying the site in accordance with the procedures presented in Section 2 of AS 2870 – Residential slabs and footings (2011), we are of the view that the bulk fill materials that were placed on this Lot by Winslow Constructors Pty Ltd can be considered as being placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

LIMITATIONS

The use of this Certificate is only appropriate for the field conditions present up to 5 February 2014.

Peter Fry