

Form 603Corporations Act 2001
Section 671B**Notice of initial substantial holder**To Company Name/Scheme ALTIUM LTDACN/ARSN 009 568 772**1. Details of substantial holder (1)**Name BlackRock Group (BlackRock Inc. and subsidiaries named in Annexures
ACN/ARSN (if applicable) to this form)The holder became a substantial holder on 25 /07 /2019**2. Details of voting power**

The total number of votes attached to all the voting shares in the company or voting interests in the scheme that the substantial holder or an associate (2) had a relevant interest (3) in on the date the substantial holder became a substantial holder are as follows:

Class of securities (4)	Number of securities	Person's votes (5)	Voting power (6)
ord	6,536,560	6,536,560	5.00

3. Details of relevant interests

The nature of the relevant interest the substantial holder or an associate had in the following voting securities on the date the substantial holder became a substantial holder are as follows:

Holder of relevant interest	Nature of relevant interest (7)	Class and number of securities
Annexure A		

4. Details of present registered holders

The persons registered as holders of the securities referred to in paragraph 3 above are as follows:

Holder of relevant interest	Registered holder of securities	Person entitled to be registered as holder (8)	Class and number of securities
see Annexure A			

5. Consideration

The consideration paid for each relevant interest referred to in paragraph 3 above, and acquired in the four months prior to the day that the substantial holder became a substantial holder is as follows:

Holder of relevant interest	Date of acquisition	Consideration (9)		Class and number of securities
		Cash	Non-cash	
see Annexure B				

6. Associates

The reasons the persons named in paragraph 3 above are associates of the substantial holder are as follows:

Name and ACN/ARSN (if applicable)	Nature of association
see Annexure A	

7. Addresses

The addresses of persons named in this form are as follows:

Name	Address
see Annexure C	

Signature

print name Maria Tricarico

capacity Authorised Signatory*

sign here

date 29 / 07 / 2019

* At a meeting of the Board on 22 November 2013, the Directors resolved to approve the delegation of the preparation and lodgement of substantial shareholder notices on behalf of BlackRock Investment Management (Australia) Limited.

DIRECTIONS

- (1) If there are a number of substantial holders with similar or related relevant interests (eg. a corporation and its related corporations, or the manager and trustee of an equity trust), the names could be included in an annexure to the form. If the relevant interests of a group of persons are essentially similar, they may be referred to throughout the form as a specifically named group if the membership of each group, with the names and addresses of members is clearly set out in paragraph 7 of the form.
- (2) See the definition of "associate" in section 9 of the Corporations Act 2001.
- (3) See the definition of "relevant interest" in sections 608 and 671B(7) of the Corporations Act 2001.
- (4) The voting shares of a company constitute one class unless divided into separate classes.
- (5) The total number of votes attached to all the voting shares in the company or voting interests in the scheme (if any) that the person or an associate has a relevant interest in.
- (6) The person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
- (7) Include details of:
 - (a) any relevant agreement or other circumstances by which the relevant interest was acquired. If subsection 671B(4) applies, a copy of any document setting out the terms of any relevant agreement, and a statement by the person giving full and accurate details of any contract, scheme or arrangement, must accompany this form, together with a written statement certifying this contract, scheme or arrangement; and
 - (b) any qualification of the power of a person to exercise, control the exercise of, or influence the exercise of, the voting powers or disposal of the securities to which the relevant interest relates (indicating clearly the particular securities to which the qualification applies).

See the definition of "relevant agreement" in section 9 of the Corporations Act 2001.
- (8) If the substantial holder is unable to determine the identity of the person (eg. if the relevant interest arises because of an option) write "unknown".
- (9) Details of the consideration must include any and all benefits, money and other, that any person from whom a relevant interest was acquired has, or may, become entitled to receive in relation to that acquisition. Details must be included even if the benefit is conditional on the happening or not of a contingency. Details must be included of any benefit paid on behalf of the substantial holder or its associate in relation to the acquisitions, even if they are not paid directly to the person from whom the relevant interest was acquired.

29-Jul-19

Maria Tricarico,
Authorised Signatory

Date

3. Details of Relevant Interests

4. Details of present registered holders

6. Associates

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET LONDON		ORD 15,867	15,867	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY EUROPE - LONDON		ORD 11,163	11,163	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JPM CHASE - LONDON		ORD 30,418	30,418	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET DUBLIN		ORD 16,344	16,344	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	STATE STREET BANK, MUNICH, ZURICH BRANCH		ORD 13,190	13,190	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD 1,220	1,220	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 576,750	576,750	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		OPTION 39,600	39,600	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ORD 496,362	496,362	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-CIBC MELLON GLOBAL SECURITIES - NEW YORK		ORD 20,567	20,567	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD 18,912	18,912	subsidiary of BlackRock Inc.
BLACKROCK FINANCIAL MANAGEMENT, INC.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 9,694	9,694	subsidiary of BlackRock Inc.
BLACKROCK FINANCIAL MANAGEMENT, INC.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	HSBC-HSBC, HONG KONG		ORD 697	697	subsidiary of BlackRock Inc.
BLACKROCK FINANCIAL MANAGEMENT, INC.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 1,071	1,071	subsidiary of BlackRock Inc.
BLACKROCK FINANCIAL MANAGEMENT, INC.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	Mitsubishi UFJ Investor Services & Banking Lux S.A		ORD 1,298	1,298	subsidiary of BlackRock Inc.
BLACKROCK FINANCIAL MANAGEMENT, INC.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STATE HONG KONG		ORD 26,334	26,334	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK, BOSTON		ORD 31,587	31,587	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD 1,177,512	1,177,512	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 99,320	99,320	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ORD 12,853	12,853	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	CITI-CITIGROUP GLOBAL MARKETS PRIME BROKERAGE - NEW YORK		ORD 7,524	7,524	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	CS-CREDIT SUISSE PRIME BROKERAGE - ZURICH		ORD 603	603	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 935,174	935,174	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	MS-MORGAN STANLEY & CO INC		ORD 1,053	1,053	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST CO. - CHICAGO		ORD 44,702	44,702	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	RBC-ROYAL TRUST - TORONTO		ORD 970	970	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB BOSTON INSTITUTIONAL		ORD 3,020	3,020	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD 104,301	104,301	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK, BOSTON		ORD 2,264	2,264	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD 403	403	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	UBS- UBS- ZURICH		ORD 12,880	12,880	subsidiary of BlackRock Inc.
BlackRock International Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 17,181	17,181	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ORD 17,325	17,325	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	HSBC-HSBC SYDNEY		ORD 146,961	146,961	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JPM CHASE - SYDNEY		ORD 455,019	455,019	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ORD 629,252	629,252	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	Northern Trust Singapore		ORD 104,932	104,932	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	UBS- UBS- ZURICH		ORD 114,520	114,520	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BANK OF NY BRUS		ORD 46,816	46,816	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	CITI-CITIBANK INTERNATIONAL PLC (LUXEMBOURG BRANCH		ORD 8,019	8,019	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JPM CHASE - LONDON		ORD 844	844	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK LUXEMBOURG		ORD 475	475	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-State Street Bank S.p.A		ORD 7,924	7,924	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ORD 517,837	517,837	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 28,123	28,123	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 6,241	6,241	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JPM CHASE - LONDON		ORD 2,374	2,374	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD 856	856	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK LUXEMBOURG		ORD 3,085	3,085	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ORD 2,749	2,749	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	UNION BANK		ORD 669	669	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 12,871	12,871	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JPM CHASE - LONDON		ORD 26,864	26,864	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	MITSUI-SUMITOMO TRUST		ORD 2,952	2,952	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager.	JPM-JPM CHASE - SYDNEY		ORD 93,705	93,705	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ORD 61,235	61,235	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager.	Northern Trust Singapore		ORD 26,338	26,338	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager.	SSB-STATE STREET AUSTRALIA		ORD 42,894	42,894	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as responsible entity.	JPM-JPM CHASE - SYDNEY		ORD 444,846	444,846	subsidiary of BlackRock Inc.

This is Annexure B of 10 pages referred to in form 603 Notice of initial substantial shareholder

29-Jul-19

Maria Tricarico,
Authorised Signatory

Date

5. Consideration

ALTUM LTD (ALU)								
Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Institutional Trust Company, National Association	26-Mar-19	yes	32.05	on mkt buy	AUD	ORD	438	438
BlackRock Investment Management (Australia) Limited	26-Mar-19	yes	31.93	on mkt buy	AUD	ORD	1,542	1,542
BlackRock Advisors, LLC	26-Mar-19	yes	32.05	on mkt buy	AUD	ORD	1,230	1,230
BlackRock Institutional Trust Company, National Association	26-Mar-19	yes	32.05	on mkt buy	AUD	ORD	4,841	4,841
BlackRock Institutional Trust Company, National Association	26-Mar-19	yes	32.05	on mkt buy	AUD	ORD	1,400	1,400
BlackRock Investment Management (UK) Limited	26-Mar-19	yes	32.05	on mkt buy	AUD	ORD	658	658
BLACKROCK FINANCIAL MANAGEMENT, INC.	26-Mar-19	yes	32.05	on mkt buy	AUD	ORD	438	438
BlackRock Asset Management Canada Limited	26-Mar-19	yes	32.05	on mkt buy	AUD	ORD	1,806	1,806
BlackRock Institutional Trust Company, National Association	26-Mar-19	yes	32.05	on mkt buy	AUD	ORD	4,254	4,254
BlackRock Institutional Trust Company, National Association	26-Mar-19	yes	31.93	on mkt buy	AUD	ORD	95	95
BlackRock Investment Management, LLC	27-Mar-19	yes	32.47	on mkt buy	AUD	ORD	600	600
BlackRock Institutional Trust Company, National Association	27-Mar-19	yes	32.47	on mkt buy	AUD	ORD	114	114
BlackRock Institutional Trust Company, National Association	27-Mar-19	yes	32.47	on mkt buy	AUD	ORD	2,344	2,344
BlackRock Institutional Trust Company, National Association	28-Mar-19	yes	31.98	on mkt buy	AUD	ORD	72	72
BlackRock Advisors, LLC	29-Mar-19	yes	32.49	on mkt buy	AUD	ORD	1,104	1,104
BlackRock Institutional Trust Company, National Association	29-Mar-19	yes	32.49	on mkt buy	AUD	ORD	2,048	2,048
BlackRock Asset Management Canada Limited	29-Mar-19	yes	32.49	on mkt buy	AUD	ORD	1,097	1,097
BlackRock Institutional Trust Company, National Association	29-Mar-19	yes	32.49	on mkt buy	AUD	ORD	2,013	2,013
BlackRock Institutional Trust Company, National Association	29-Mar-19	yes	32.54	on mkt buy	AUD	ORD	130	130
BlackRock Advisors (UK) Limited	29-Mar-19	yes	32.32	on mkt buy	AUD	ORD	146	146
BlackRock Institutional Trust Company, National Association	29-Mar-19	yes	32.32	on mkt buy	AUD	ORD	9,360	9,360
BlackRock Institutional Trust Company, National Association	29-Mar-19	yes	32.32	on mkt buy	AUD	ORD	5,175	5,175
BlackRock Investment Management (Australia) Limited	29-Mar-19	yes	32.32	on mkt buy	AUD	ORD	2,620	2,620
BlackRock Fund Advisors	29-Mar-19	no	n/a	in specie	AUD	ORD	600	600
BlackRock Institutional Trust Company, National Association	01-Apr-19	yes	32.17	on mkt buy	AUD	ORD	102	102
BlackRock Institutional Trust Company, National Association	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	285	285
BlackRock Institutional Trust Company, National Association	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	786	786
BlackRock Institutional Trust Company, National Association	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	126	126
BlackRock Investment Management (Australia) Limited	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	8,056	8,056
BlackRock Advisors, LLC	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	1,199	1,199
BlackRock Institutional Trust Company, National Association	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	1,793	1,793
BLACKROCK FINANCIAL MANAGEMENT, INC.	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	647	647
BlackRock Asset Management Canada Limited	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	1,149	1,149
BlackRock Institutional Trust Company, National Association	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	2,231	2,231

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Institutional Trust Company, National Association	02-Apr-19	yes	33.08	on mkt buy	AUD	ORD	1,675	1,675
BlackRock Fund Advisors	02-Apr-19	no	n/a	in specie	AUD	ORD	300	300
BlackRock Institutional Trust Company, National Association	03-Apr-19	yes	32.95	on mkt buy	AUD	ORD	254	254
BlackRock Institutional Trust Company, National Association	03-Apr-19	yes	32.95	on mkt buy	AUD	ORD	860	860
BlackRock Japan Co., Ltd.	03-Apr-19	yes	32.97	on mkt buy	AUD	ORD	6,187	6,187
BlackRock Investment Management (Australia) Limited	03-Apr-19	yes	32.94	on mkt buy	AUD	ORD	6,616	6,616
BlackRock Investment Management (Australia) Limited	03-Apr-19	yes	32.97	on mkt buy	AUD	ORD	3,852	3,852
BlackRock Institutional Trust Company, National Association	03-Apr-19	yes	32.91	on mkt buy	AUD	ORD	338	338
BlackRock Institutional Trust Company, National Association	03-Apr-19	yes	32.91	on mkt buy	AUD	ORD	76	76
BlackRock Institutional Trust Company, National Association	03-Apr-19	yes	32.91	on mkt buy	AUD	ORD	76	76
BlackRock Investment Management (Australia) Limited	03-Apr-19	yes	32.74	on mkt buy	AUD	ORD	675	675
BlackRock Investment Management (Australia) Limited	03-Apr-19	yes	32.74	on mkt buy	AUD	ORD	2,516	2,516
BlackRock Investment Management (Australia) Limited	03-Apr-19	yes	32.74	on mkt buy	AUD	ORD	398	398
BlackRock Institutional Trust Company, National Association	04-Apr-19	yes	32.60	on mkt buy	AUD	ORD	184	184
BlackRock Institutional Trust Company, National Association	04-Apr-19	yes	32.60	on mkt buy	AUD	ORD	449	449
BlackRock Advisors, LLC	04-Apr-19	yes	32.60	on mkt buy	AUD	ORD	1,208	1,208
BlackRock Institutional Trust Company, National Association	04-Apr-19	yes	32.60	on mkt buy	AUD	ORD	1,539	1,539
BlackRock Investment Management (Australia) Limited	04-Apr-19	yes	32.57	on mkt buy	AUD	ORD	1,080	1,080
BlackRock Investment Management (Australia) Limited	04-Apr-19	yes	32.57	on mkt buy	AUD	ORD	903	903
BlackRock Investment Management (Australia) Limited	04-Apr-19	yes	32.57	on mkt buy	AUD	ORD	561	561
BlackRock Institutional Trust Company, National Association	04-Apr-19	no	n/a	in specie	AUD	ORD	2,901	2,901
BlackRock Institutional Trust Company, National Association	05-Apr-19	yes	31.29	on mkt buy	AUD	ORD	354	354
BlackRock Institutional Trust Company, National Association	05-Apr-19	yes	31.29	on mkt buy	AUD	ORD	44	44
BlackRock Institutional Trust Company, National Association	08-Apr-19	yes	31.79	on mkt buy	AUD	ORD	151	151
BlackRock Institutional Trust Company, National Association	08-Apr-19	yes	31.79	on mkt buy	AUD	ORD	606	606
BlackRock Fund Advisors	08-Apr-19	no	n/a	in specie	AUD	ORD	360	360
BlackRock Fund Advisors	08-Apr-19	no	n/a	in specie	AUD	ORD	3,675	3,675
BlackRock Advisors, LLC	09-Apr-19	yes	32.34	on mkt buy	AUD	ORD	1,307	1,307
BlackRock Institutional Trust Company, National Association	09-Apr-19	yes	32.34	on mkt buy	AUD	ORD	878	878
BlackRock Asset Management Canada Limited	09-Apr-19	yes	32.34	on mkt buy	AUD	ORD	987	987
BlackRock Institutional Trust Company, National Association	09-Apr-19	yes	32.34	on mkt buy	AUD	ORD	2,971	2,971
BlackRock Institutional Trust Company, National Association	09-Apr-19	yes	32.34	on mkt buy	AUD	ORD	1,514	1,514
BlackRock Institutional Trust Company, National Association	09-Apr-19	yes	32.34	on mkt buy	AUD	ORD	161	161
BlackRock Investment Management (Australia) Limited	09-Apr-19	yes	32.22	on mkt buy	AUD	ORD	405	405
BlackRock Investment Management (Australia) Limited	10-Apr-19	yes	32.43	on mkt buy	AUD	ORD	8,506	8,506
BlackRock Investment Management (Australia) Limited	10-Apr-19	yes	32.45	on mkt buy	AUD	ORD	14,952	14,952
BlackRock Investment Management (Australia) Limited	10-Apr-19	yes	32.43	on mkt buy	AUD	ORD	1,344	1,344
BlackRock Investment Management (Australia) Limited	10-Apr-19	yes	32.43	on mkt buy	AUD	ORD	2,638	2,638
BlackRock Investment Management (Australia) Limited	10-Apr-19	yes	32.45	on mkt buy	AUD	ORD	9,082	9,082
BlackRock Institutional Trust Company, National Association	10-Apr-19	yes	32.36	on mkt buy	AUD	ORD	153	153
BlackRock Institutional Trust Company, National Association	10-Apr-19	yes	32.41	on mkt buy	AUD	ORD	2,244	2,244

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			Cash	Non-cash	CCY			
BlackRock Institutional Trust Company, National Association	10-Apr-19	yes	32.41	on mkt buy	AUD	ORD	851	851
BlackRock Institutional Trust Company, National Association	10-Apr-19	yes	32.41	on mkt buy	AUD	ORD	818	818
BlackRock Institutional Trust Company, National Association	11-Apr-19	yes	32.26	on mkt buy	AUD	ORD	122	122
BlackRock Advisors, LLC	11-Apr-19	yes	32.26	on mkt buy	AUD	ORD	1,090	1,090
BlackRock Institutional Trust Company, National Association	11-Apr-19	yes	32.26	on mkt buy	AUD	ORD	4,402	4,402
BlackRock Asset Management Canada Limited	11-Apr-19	yes	32.26	on mkt buy	AUD	ORD	692	692
BlackRock Institutional Trust Company, National Association	11-Apr-19	yes	32.26	on mkt buy	AUD	ORD	1,964	1,964
BlackRock Institutional Trust Company, National Association	11-Apr-19	yes	32.26	on mkt buy	AUD	ORD	1,418	1,418
BlackRock Institutional Trust Company, National Association	12-Apr-19	yes	32.62	on mkt buy	AUD	ORD	85	85
BlackRock Fund Advisors	12-Apr-19	no	n/a	in specie	AUD	ORD	3,045	3,045
BlackRock Investment Management, LLC	15-Apr-19	yes	32.99	on mkt buy	AUD	ORD	3,163	3,163
BlackRock Institutional Trust Company, National Association	16-Apr-19	yes	33.13	on mkt buy	AUD	ORD	65	65
BlackRock Fund Advisors	16-Apr-19	no	n/a	in specie	AUD	ORD	4,200	4,200
BlackRock Institutional Trust Company, National Association	17-Apr-19	yes	33.16	on mkt buy	AUD	ORD	57	57
BlackRock Investment Management, LLC	17-Apr-19	yes	33.49	on mkt buy	AUD	ORD	409	409
BlackRock Investment Management (Australia) Limited	17-Apr-19	yes	33.14	on mkt buy	AUD	ORD	9,848	9,848
BlackRock Investment Management (Australia) Limited	17-Apr-19	yes	33.14	on mkt buy	AUD	ORD	8,236	8,236
BlackRock Investment Management (Australia) Limited	23-Apr-19	no	n/a	in specie	AUD	ORD	28,642	28,642
BlackRock Investment Management (UK) Limited	23-Apr-19	yes	33.08	on mkt buy	AUD	ORD	1,863	1,863
BlackRock Fund Advisors	23-Apr-19	no	n/a	in specie	AUD	ORD	600	600
BlackRock Investment Management (Australia) Limited	24-Apr-19	yes	34.36	on mkt buy	AUD	ORD	2,371	2,371
BlackRock Investment Management (Australia) Limited	24-Apr-19	yes	34.28	on mkt buy	AUD	ORD	1,080	1,080
BlackRock Investment Management (Australia) Limited	24-Apr-19	yes	34.28	on mkt buy	AUD	ORD	6,591	6,591
BlackRock Investment Management (Australia) Limited	24-Apr-19	yes	34.28	on mkt buy	AUD	ORD	641	641
BlackRock Investment Management (Australia) Limited	24-Apr-19	yes	34.28	on mkt buy	AUD	ORD	2,789	2,789
BlackRock Fund Advisors	24-Apr-19	no	n/a	in specie	AUD	ORD	390	390
BlackRock Fund Advisors	24-Apr-19	no	n/a	in specie	AUD	ORD	4,452	4,452
BlackRock Fund Advisors	26-Apr-19	no	n/a	in specie	AUD	ORD	3,392	3,392
BlackRock Investment Management, LLC	30-Apr-19	yes	33.50	on mkt buy	AUD	ORD	616	616
BlackRock Investment Management (Australia) Limited	30-Apr-19	yes	33.68	on mkt buy	AUD	ORD	707	707
BlackRock Investment Management (Australia) Limited	30-Apr-19	yes	33.80	on mkt buy	AUD	ORD	540	540
BlackRock Institutional Trust Company, National Association	30-Apr-19	yes	33.80	on mkt buy	AUD	ORD	92	92
BlackRock Advisors (UK) Limited	02-May-19	yes	33.87	on mkt buy	AUD	ORD	146	146
BlackRock Institutional Trust Company, National Association	07-May-19	yes	32.58	on mkt buy	AUD	ORD	343	343
BlackRock Fund Advisors	07-May-19	no	n/a	in specie	AUD	ORD	763	763
BlackRock Fund Advisors	07-May-19	no	n/a	in specie	AUD	ORD	1,308	1,308
BlackRock Institutional Trust Company, National Association	08-May-19	yes	31.71	on mkt buy	AUD	ORD	237	237
BlackRock Investment Management (Australia) Limited	08-May-19	yes	31.75	on mkt buy	AUD	ORD	5,556	5,556
BlackRock Investment Management (Australia) Limited	08-May-19	yes	31.75	on mkt buy	AUD	ORD	791	791
BlackRock Investment Management (Australia) Limited	08-May-19	yes	31.75	on mkt buy	AUD	ORD	2,845	2,845
BlackRock Fund Advisors	08-May-19	no	n/a	in specie	AUD	ORD	990	990
BlackRock Institutional Trust Company, National Association	09-May-19	yes	31.92	on mkt buy	AUD	ORD	169	169
BlackRock Investment Management (Australia) Limited	09-May-19	yes	31.94	on mkt buy	AUD	ORD	131	131
BlackRock Fund Advisors	10-May-19	no	n/a	in specie	AUD	ORD	585	585
BlackRock Institutional Trust Company, National Association	13-May-19	yes	31.52	on mkt buy	AUD	ORD	635	635

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BlackRock Investment Management (Australia) Limited	13-May-19	yes	31.31	on mkt buy	AUD	ORD	1,055	1,055
BlackRock Fund Advisors	13-May-19	no	n/a	in specie	AUD	ORD	1,344	1,344
BlackRock Institutional Trust Company, National Association	14-May-19	yes	30.61	on mkt buy	AUD	ORD	597	597
BlackRock Advisors, LLC	14-May-19	yes	30.61	on mkt buy	AUD	ORD	810	810
BlackRock Institutional Trust Company, National Association	14-May-19	yes	30.61	on mkt buy	AUD	ORD	4,857	4,857
BlackRock Institutional Trust Company, National Association	14-May-19	yes	30.61	on mkt buy	AUD	ORD	774	774
BlackRock Asset Management Canada Limited	14-May-19	yes	30.61	on mkt buy	AUD	ORD	1,220	1,220
BlackRock Institutional Trust Company, National Association	14-May-19	yes	30.61	on mkt buy	AUD	ORD	2,377	2,377
BlackRock Institutional Trust Company, National Association	14-May-19	yes	30.61	on mkt buy	AUD	ORD	1,374	1,374
BlackRock Institutional Trust Company, National Association	14-May-19	yes	30.61	on mkt buy	AUD	ORD	46	46
BlackRock Fund Advisors	14-May-19	no	n/a	in specie	AUD	ORD	330	330
BlackRock Institutional Trust Company, National Association	15-May-19	yes	32.23	on mkt buy	AUD	ORD	416	416
BlackRock Advisors, LLC	15-May-19	yes	32.20	on mkt buy	AUD	ORD	16,071	16,071
BlackRock Investment Management, LLC	15-May-19	yes	32.20	on mkt buy	AUD	ORD	681	681
BlackRock Investment Management (Australia) Limited	15-May-19	yes	32.23	on mkt buy	AUD	ORD	9,061	9,061
BlackRock Investment Management (Australia) Limited	15-May-19	yes	32.23	on mkt buy	AUD	ORD	2,644	2,644
BlackRock Investment Management (Australia) Limited	15-May-19	yes	32.23	on mkt buy	AUD	ORD	6,167	6,167
BlackRock Institutional Trust Company, National Association	15-May-19	yes	32.24	on mkt buy	AUD	ORD	158	158
BlackRock Institutional Trust Company, National Association	15-May-19	yes	32.24	on mkt buy	AUD	ORD	154	154
BlackRock Fund Advisors	15-May-19	no	n/a	in specie	AUD	ORD	1,635	1,635
BlackRock Institutional Trust Company, National Association	16-May-19	yes	32.30	on mkt buy	AUD	ORD	119	119
BlackRock Investment Management (Australia) Limited	16-May-19	yes	32.30	on mkt buy	AUD	ORD	4,378	4,378
BlackRock Institutional Trust Company, National Association	16-May-19	yes	32.30	on mkt buy	AUD	ORD	3,446	3,446
BlackRock Institutional Trust Company, National Association	17-May-19	yes	32.75	on mkt buy	AUD	ORD	101	101
BlackRock Institutional Trust Company, National Association	17-May-19	yes	32.75	on mkt buy	AUD	ORD	651	651
BlackRock Institutional Trust Company, National Association	20-May-19	yes	31.76	on mkt buy	AUD	ORD	146	146
BlackRock Institutional Trust Company, National Association	20-May-19	yes	31.76	on mkt buy	AUD	ORD	501	501
BlackRock (Netherlands) B.V.	20-May-19	no	n/a	in specie	AUD	ORD	15,867	15,867
BlackRock Institutional Trust Company, National Association	21-May-19	yes	30.47	on mkt buy	AUD	ORD	921	921
BlackRock Investment Management (Australia) Limited	21-May-19	yes	30.45	on mkt buy	AUD	ORD	732	732
BlackRock Japan Co., Ltd.	21-May-19	yes	30.47	on mkt buy	AUD	ORD	959	959
BlackRock Japan Co., Ltd.	21-May-19	yes	30.47	on mkt buy	AUD	ORD	731	731
BlackRock Japan Co., Ltd.	21-May-19	yes	30.47	on mkt buy	AUD	ORD	465	465
BlackRock Advisors, LLC	21-May-19	yes	30.47	on mkt buy	AUD	ORD	991	991
BlackRock International Limited	21-May-19	yes	30.47	on mkt buy	AUD	ORD	1,432	1,432
BlackRock Institutional Trust Company, National Association	21-May-19	yes	30.47	on mkt buy	AUD	ORD	6,064	6,064
BlackRock Institutional Trust Company, National Association	21-May-19	yes	30.47	on mkt buy	AUD	ORD	523	523
BlackRock Investment Management, LLC	21-May-19	yes	30.47	on mkt buy	AUD	ORD	1,055	1,055
BlackRock Institutional Trust Company, National Association	21-May-19	yes	30.47	on mkt buy	AUD	ORD	5,580	5,580
BlackRock Institutional Trust Company, National Association	21-May-19	yes	30.47	on mkt buy	AUD	ORD	847	847
BlackRock Advisors (UK) Limited	21-May-19	yes	30.47	on mkt buy	AUD	ORD	1,206	1,206
BlackRock Advisors (UK) Limited	21-May-19	yes	30.47	on mkt buy	AUD	ORD	1,004	1,004
BlackRock Asset Management Canada Limited	21-May-19	yes	30.47	on mkt buy	AUD	ORD	1,085	1,085
BlackRock Institutional Trust Company, National Association	21-May-19	yes	30.47	on mkt buy	AUD	ORD	2,265	2,265
BlackRock Institutional Trust Company, National Association	21-May-19	yes	30.47	on mkt buy	AUD	ORD	1,481	1,481

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BlackRock Institutional Trust Company, National Association	21-May-19	yes	30.47	on mkt buy	AUD	ORD	265	265
BlackRock Advisors (UK) Limited	21-May-19	yes	30.43	on mkt buy	AUD	ORD	146	146
BlackRock Investment Management (Australia) Limited	22-May-19	yes	30.60	on mkt buy	AUD	ORD	18,100	18,100
BlackRock Investment Management (Australia) Limited	22-May-19	yes	30.60	on mkt buy	AUD	ORD	4,013	4,013
BlackRock Investment Management (Australia) Limited	22-May-19	yes	30.60	on mkt buy	AUD	ORD	9,379	9,379
BlackRock Institutional Trust Company, National Association	22-May-19	yes	30.60	on mkt buy	AUD	ORD	331	331
BlackRock Institutional Trust Company, National Association	22-May-19	yes	30.60	on mkt buy	AUD	ORD	375	375
BlackRock Institutional Trust Company, National Association	22-May-19	yes	30.60	on mkt buy	AUD	ORD	368	368
BlackRock Institutional Trust Company, National Association	22-May-19	yes	30.58	on mkt buy	AUD	ORD	683	683
BlackRock Institutional Trust Company, National Association	22-May-19	yes	30.58	on mkt buy	AUD	ORD	890	890
BlackRock Advisors (UK) Limited	22-May-19	yes	30.55	on mkt buy	AUD	ORD	146	146
BlackRock Institutional Trust Company, National Association	22-May-19	yes	30.55	on mkt buy	AUD	ORD	1,233	1,233
BlackRock Fund Advisors	22-May-19	no	n/a	in specie	AUD	ORD	1,635	1,635
BlackRock Fund Advisors	22-May-19	no	n/a	in specie	AUD	ORD	3,270	3,270
BlackRock Institutional Trust Company, National Association	22-May-19	no	n/a	in specie	AUD	ORD	8,892	8,892
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.93	on mkt buy	AUD	ORD	756	756
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.93	on mkt buy	AUD	ORD	511	511
BlackRock Advisors (UK) Limited	23-May-19	yes	30.93	on mkt buy	AUD	ORD	1,350	1,350
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.93	on mkt buy	AUD	ORD	5,397	5,397
BlackRock Investment Management, LLC	23-May-19	yes	30.93	on mkt buy	AUD	ORD	488	488
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.92	on mkt buy	AUD	ORD	604	604
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.92	on mkt buy	AUD	ORD	1,584	1,584
BlackRock Investment Management (Australia) Limited	23-May-19	yes	30.93	on mkt buy	AUD	ORD	2,111	2,111
BlackRock Advisors, LLC	23-May-19	yes	30.92	on mkt buy	AUD	ORD	1,212	1,212
BlackRock Asset Management Canada Limited	23-May-19	yes	30.92	on mkt buy	AUD	ORD	714	714
BLACKROCK FINANCIAL MANAGEMENT, INC.	23-May-19	yes	30.92	on mkt buy	AUD	ORD	947	947
BlackRock International Limited	23-May-19	yes	30.92	on mkt buy	AUD	ORD	2,205	2,205
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.92	on mkt buy	AUD	ORD	10,528	10,528
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.92	on mkt buy	AUD	ORD	1,088	1,088
BlackRock Investment Management, LLC	23-May-19	yes	30.92	on mkt buy	AUD	ORD	2,962	2,962
BLACKROCK FINANCIAL MANAGEMENT, INC.	23-May-19	yes	30.92	on mkt buy	AUD	ORD	1,080	1,080
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.92	on mkt buy	AUD	ORD	790	790
BlackRock Advisors (UK) Limited	23-May-19	yes	30.92	on mkt buy	AUD	ORD	2,523	2,523
BlackRock Advisors (UK) Limited	23-May-19	yes	30.92	on mkt buy	AUD	ORD	1,938	1,938
BlackRock Asset Management Canada Limited	23-May-19	yes	30.92	on mkt buy	AUD	ORD	1,096	1,096
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.92	on mkt buy	AUD	ORD	2,415	2,415
BlackRock Institutional Trust Company, National Association	23-May-19	yes	30.92	on mkt buy	AUD	ORD	1,741	1,741
BlackRock Investment Management, LLC	23-May-19	yes	30.92	on mkt buy	AUD	ORD	476	476
BlackRock Fund Advisors	23-May-19	yes	30.90	on mkt buy	AUD	ORD	17,836	17,836
BLACKROCK FINANCIAL MANAGEMENT, INC.	24-May-19	yes	29.53	on mkt buy	AUD	ORD	3,653	3,653
BlackRock Institutional Trust Company, National Association	24-May-19	yes	29.53	on mkt buy	AUD	ORD	12,682	12,682
BlackRock Institutional Trust Company, National Association	24-May-19	yes	29.53	on mkt buy	AUD	ORD	9,340	9,340
BlackRock Institutional Trust Company, National Association	24-May-19	yes	29.53	on mkt buy	AUD	ORD	3,910	3,910
BlackRock Institutional Trust Company, National Association	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,627	1,627

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BlackRock Institutional Trust Company, National Association	24-May-19	yes	29.53	on mkt buy	AUD	ORD	515	515
BlackRock Advisors (UK) Limited	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,301	1,301
BlackRock Advisors, LLC	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,515	1,515
BLACKROCK FINANCIAL MANAGEMENT, INC.	24-May-19	yes	29.53	on mkt buy	AUD	ORD	512	512
BLACKROCK FINANCIAL MANAGEMENT, INC.	24-May-19	yes	29.53	on mkt buy	AUD	ORD	988	988
BlackRock Investment Management, LLC	24-May-19	yes	29.53	on mkt buy	AUD	ORD	576	576
BlackRock International Limited	24-May-19	yes	29.53	on mkt buy	AUD	ORD	2,813	2,813
BlackRock Institutional Trust Company, National Association	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,144	1,144
BlackRock Investment Management, LLC	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,474	1,474
BLACKROCK FINANCIAL MANAGEMENT, INC.	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,053	1,053
BlackRock Advisors, LLC	24-May-19	yes	29.53	on mkt buy	AUD	ORD	567	567
BlackRock Institutional Trust Company, National Association	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,487	1,487
BlackRock Institutional Trust Company, National Association	24-May-19	yes	29.53	on mkt buy	AUD	ORD	2,821	2,821
BlackRock Advisors (UK) Limited	24-May-19	yes	29.53	on mkt buy	AUD	ORD	2,254	2,254
BlackRock Advisors (UK) Limited	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,760	1,760
BLACKROCK FINANCIAL MANAGEMENT, INC.	24-May-19	yes	29.53	on mkt buy	AUD	ORD	529	529
BlackRock Asset Management Canada Limited	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,950	1,950
BlackRock Investment Management, LLC	24-May-19	yes	29.53	on mkt buy	AUD	ORD	503	503
BlackRock Institutional Trust Company, National Association	24-May-19	yes	29.53	on mkt buy	AUD	ORD	1,654	1,654
BlackRock Institutional Trust Company, National Association	27-May-19	yes	30.30	on mkt buy	AUD	ORD	1,172	1,172
BlackRock Institutional Trust Company, National Association	27-May-19	yes	30.30	on mkt buy	AUD	ORD	1,690	1,690
BlackRock Advisors, LLC	27-May-19	yes	30.30	on mkt buy	AUD	ORD	78,491	78,491
BlackRock Investment Management, LLC	27-May-19	yes	30.30	on mkt buy	AUD	ORD	3,376	3,376
BlackRock Investment Management (Australia) Limited	28-May-19	yes	31.17	on mkt buy	AUD	ORD	6,290	6,290
BlackRock Advisors, LLC	28-May-19	yes	30.95	on mkt buy	AUD	ORD	5,209	5,209
BlackRock Investment Management, LLC	28-May-19	yes	30.95	on mkt buy	AUD	ORD	224	224
BlackRock Investment Management (Australia) Limited	28-May-19	yes	31.42	on mkt buy	AUD	ORD	960	960
BlackRock Investment Management (Australia) Limited	29-May-19	yes	31.51	on mkt buy	AUD	ORD	5,918	5,918
BlackRock Japan Co., Ltd.	29-May-19	yes	31.47	on mkt buy	AUD	ORD	2,057	2,057
BlackRock Investment Management (Australia) Limited	29-May-19	yes	31.51	on mkt buy	AUD	ORD	325	325
BlackRock Investment Management (Australia) Limited	29-May-19	yes	31.51	on mkt buy	AUD	ORD	8,512	8,512
BlackRock Institutional Trust Company, National Association	29-May-19	yes	31.52	on mkt buy	AUD	ORD	1,030	1,030
BlackRock Institutional Trust Company, National Association	29-May-19	yes	31.52	on mkt buy	AUD	ORD	1,411	1,411
BlackRock Investment Management, LLC	29-May-19	yes	31.52	on mkt buy	AUD	ORD	619	619
BlackRock Institutional Trust Company, National Association	29-May-19	yes	31.52	on mkt buy	AUD	ORD	141	141
BlackRock Japan Co., Ltd.	29-May-19	yes	31.52	on mkt buy	AUD	ORD	1,750	1,750
BlackRock Japan Co., Ltd.	29-May-19	yes	31.52	on mkt buy	AUD	ORD	896	896
BlackRock Japan Co., Ltd.	29-May-19	yes	31.52	on mkt buy	AUD	ORD	916	916
BlackRock Investment Management (UK) Limited	29-May-19	yes	31.52	on mkt buy	AUD	ORD	1,020	1,020
BlackRock Advisors (UK) Limited	29-May-19	yes	31.44	on mkt buy	AUD	ORD	292	292
BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	1,222	1,222
BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	1,115	1,115
BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	1,210	1,210
BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	983	983
BlackRock Advisors (UK) Limited	30-May-19	yes	30.82	on mkt buy	AUD	ORD	954	954
BlackRock Investment Management (Australia) Limited	30-May-19	yes	30.82	on mkt buy	AUD	ORD	6,514	6,514
BlackRock Advisors, LLC	30-May-19	yes	30.82	on mkt buy	AUD	ORD	1,265	1,265
BlackRock International Limited	30-May-19	yes	30.82	on mkt buy	AUD	ORD	1,443	1,443
BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	11,137	11,137

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BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	572	572
BlackRock Advisors, LLC	30-May-19	yes	30.82	on mkt buy	AUD	ORD	546	546
BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	10,558	10,558
BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	1,628	1,628
BlackRock Advisors (UK) Limited	30-May-19	yes	30.82	on mkt buy	AUD	ORD	2,128	2,128
BlackRock Advisors (UK) Limited	30-May-19	yes	30.82	on mkt buy	AUD	ORD	1,669	1,669
BLACKROCK FINANCIAL MANAGEMENT, INC.	30-May-19	yes	30.82	on mkt buy	AUD	ORD	784	784
BlackRock Asset Management Canada Limited	30-May-19	yes	30.82	on mkt buy	AUD	ORD	2,645	2,645
BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	2,939	2,939
BlackRock Institutional Trust Company, National Association	30-May-19	yes	30.82	on mkt buy	AUD	ORD	1,381	1,381
BlackRock Fund Advisors	30-May-19	no	n/a	in specie	AUD	ORD	3,954	3,954
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,053	1,053
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,213	1,213
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,379	1,379
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	511	511
BlackRock Advisors, LLC	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,462	1,462
BlackRock Investment Management, LLC	31-May-19	yes	30.83	on mkt buy	AUD	ORD	569	569
BlackRock International Limited	31-May-19	yes	30.83	on mkt buy	AUD	ORD	2,263	2,263
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	7,243	7,243
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	569	569
BlackRock Advisors, LLC	31-May-19	yes	30.83	on mkt buy	AUD	ORD	504	504
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	10,956	10,956
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,302	1,302
BlackRock Advisors (UK) Limited	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,262	1,262
BlackRock Advisors (UK) Limited	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,022	1,022
BLACKROCK FINANCIAL MANAGEMENT, INC.	31-May-19	yes	30.83	on mkt buy	AUD	ORD	471	471
BlackRock Asset Management Canada Limited	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,633	1,633
BlackRock Investment Management, LLC	31-May-19	yes	30.83	on mkt buy	AUD	ORD	495	495
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,796	1,796
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.83	on mkt buy	AUD	ORD	1,601	1,601
BlackRock Institutional Trust Company, National Association	31-May-19	yes	30.93	on mkt buy	AUD	ORD	3,311	3,311
BlackRock Institutional Trust Company, National Association	03-Jun-19	yes	30.52	on mkt buy	AUD	ORD	528	528
BlackRock Institutional Trust Company, National Association	03-Jun-19	yes	30.52	on mkt buy	AUD	ORD	717	717
BlackRock Institutional Trust Company, National Association	04-Jun-19	yes	29.43	on mkt buy	AUD	ORD	1,086	1,086
BlackRock Advisors (UK) Limited	04-Jun-19	yes	29.43	on mkt buy	AUD	ORD	1,035	1,035
BlackRock Advisors, LLC	04-Jun-19	yes	29.43	on mkt buy	AUD	ORD	726	726
BlackRock International Limited	04-Jun-19	yes	29.43	on mkt buy	AUD	ORD	1,555	1,555
BlackRock Institutional Trust Company, National Association	04-Jun-19	yes	29.43	on mkt buy	AUD	ORD	3,833	3,833
BlackRock Asset Management Canada Limited	04-Jun-19	yes	29.43	on mkt buy	AUD	ORD	733	733
BlackRock Institutional Trust Company, National Association	05-Jun-19	yes	29.98	on mkt buy	AUD	ORD	559	559
BlackRock Institutional Trust Company, National Association	05-Jun-19	yes	29.98	on mkt buy	AUD	ORD	300	300
BlackRock Investment Management, LLC	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	1,612	1,612
BlackRock Institutional Trust Company, National Association	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	618	618
BlackRock Advisors (UK) Limited	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	1,237	1,237
BlackRock Investment Management (UK) Limited	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	568	568
BlackRock Japan Co., Ltd.	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	3,012	3,012
BlackRock Japan Co., Ltd.	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	540	540

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Japan Co., Ltd.	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	610	610
BlackRock Japan Co., Ltd.	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	1,675	1,675
BlackRock Japan Co., Ltd.	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	1,558	1,558
BlackRock Investment Management (UK) Limited	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	2,645	2,645
BlackRock Advisors (UK) Limited	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	5,001	5,001
BlackRock Investment Management, LLC	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	856	856
BlackRock Institutional Trust Company, National Association	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	502	502
BlackRock Institutional Trust Company, National Association	05-Jun-19	yes	29.91	on mkt buy	AUD	ORD	138	138
BLACKROCK FINANCIAL MANAGEMENT, INC.	05-Jun-19	yes	29.90	on mkt buy	AUD	ORD	724	724
BlackRock Japan Co., Ltd.	05-Jun-19	yes	29.90	on mkt buy	AUD	ORD	3,603	3,603
BlackRock Fund Advisors	05-Jun-19	no	n/a	in specie	AUD	ORD	2,415	2,415
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	1,407	1,407
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	240	240
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	546	546
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	1,313	1,313
BlackRock Advisors (UK) Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	1,119	1,119
BlackRock Investment Management (Australia) Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	559	559
BlackRock Investment Management (Australia) Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	21,722	21,722
BlackRock Asset Management Canada Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	569	569
BLACKROCK FINANCIAL MANAGEMENT, INC.	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	2,967	2,967
BLACKROCK FINANCIAL MANAGEMENT, INC.	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	864	864
BlackRock Investment Management (Australia) Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	2,966	2,966
BlackRock International Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	1,777	1,777
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	4,857	4,857
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	670	670
BlackRock Investment Management, LLC	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	313	313
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	2,715	2,715
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	2,546	2,546
BlackRock Investment Management (Australia) Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	21,722	21,722
BlackRock Advisors (UK) Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	1,773	1,773
BlackRock Advisors (UK) Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	1,377	1,377
BlackRock Asset Management Canada Limited	06-Jun-19	yes	30.70	on mkt buy	AUD	ORD	754	754
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	447	447
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	77	77
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	174	174
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	418	418
BlackRock Advisors (UK) Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	356	356
BlackRock Investment Management (Australia) Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	178	178
BlackRock Investment Management (Australia) Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	6,891	6,891
BlackRock Asset Management Canada Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	181	181
BLACKROCK FINANCIAL MANAGEMENT, INC.	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	941	941
BLACKROCK FINANCIAL MANAGEMENT, INC.	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	275	275
BlackRock Investment Management (Australia) Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	941	941
BlackRock International Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	564	564
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	1,541	1,541

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			Cash	Non-cash	CCY			
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	213	213
BlackRock Investment Management, LLC	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	100	100
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	861	861
BlackRock Institutional Trust Company, National Association	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	807	807
BlackRock Investment Management (Australia) Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	6,891	6,891
BlackRock Advisors (UK) Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	563	563
BlackRock Advisors (UK) Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	438	438
BlackRock Asset Management Canada Limited	06-Jun-19	yes	30.84	on mkt buy	AUD	ORD	240	240
BlackRock Institutional Trust Company, National Association	07-Jun-19	yes	31.09	on mkt buy	AUD	ORD	880	880
BlackRock Advisors (UK) Limited	07-Jun-19	yes	31.09	on mkt buy	AUD	ORD	833	833
BlackRock Institutional Trust Company, National Association	07-Jun-19	yes	31.32	on mkt buy	AUD	ORD	1,675	1,675
BlackRock Institutional Trust Company, National Association	11-Jun-19	yes	32.21	on mkt buy	AUD	ORD	465	465
BlackRock Institutional Trust Company, National Association	11-Jun-19	yes	32.21	on mkt buy	AUD	ORD	794	794
BlackRock Advisors (UK) Limited	11-Jun-19	yes	32.21	on mkt buy	AUD	ORD	687	687
BlackRock International Limited	11-Jun-19	yes	32.21	on mkt buy	AUD	ORD	1,391	1,391
BlackRock Institutional Trust Company, National Association	11-Jun-19	yes	32.21	on mkt buy	AUD	ORD	4,305	4,305
BlackRock Institutional Trust Company, National Association	11-Jun-19	yes	32.21	on mkt buy	AUD	ORD	489	489
BlackRock Advisors (UK) Limited	11-Jun-19	yes	32.21	on mkt buy	AUD	ORD	1,120	1,120
BlackRock Advisors (UK) Limited	11-Jun-19	yes	32.21	on mkt buy	AUD	ORD	876	876
BlackRock Investment Management, LLC	11-Jun-19	yes	32.16	on mkt buy	AUD	ORD	14,673	14,673
BlackRock Advisors (UK) Limited	11-Jun-19	yes	32.14	on mkt buy	AUD	ORD	438	438
BlackRock Advisors (UK) Limited	12-Jun-19	yes	32.75	on mkt buy	AUD	ORD	446	446
BlackRock Japan Co., Ltd.	12-Jun-19	yes	32.77	on mkt buy	AUD	ORD	841	841
BlackRock Japan Co., Ltd.	12-Jun-19	yes	32.75	on mkt buy	AUD	ORD	850	850
BlackRock Japan Co., Ltd.	12-Jun-19	yes	32.75	on mkt buy	AUD	ORD	446	446
BlackRock Japan Co., Ltd.	12-Jun-19	yes	32.75	on mkt buy	AUD	ORD	464	464
BlackRock Investment Management (UK) Limited	12-Jun-19	yes	32.75	on mkt buy	AUD	ORD	1,070	1,070
BlackRock Institutional Trust Company, National Association	13-Jun-19	yes	32.35	on mkt buy	AUD	ORD	153	153
BlackRock Institutional Trust Company, National Association	13-Jun-19	no	n/a	in specie	AUD	ORD	2,631	2,631
BlackRock Investment Management (UK) Limited	13-Jun-19	yes	32.09	on mkt buy	AUD	ORD	74	74
BlackRock Investment Management, LLC	14-Jun-19	yes	32.17	on mkt buy	AUD	ORD	660	660
BlackRock Investment Management (Australia) Limited	14-Jun-19	yes	32.67	on mkt buy	AUD	ORD	3,272	3,272
BlackRock Investment Management (Australia) Limited	14-Jun-19	yes	32.67	on mkt buy	AUD	ORD	4,483	4,483
BlackRock Institutional Trust Company, National Association	19-Jun-19	yes	33.30	on mkt buy	AUD	ORD	1,741	1,741
BlackRock Institutional Trust Company, National Association	19-Jun-19	yes	33.30	on mkt buy	AUD	ORD	753	753
BlackRock Institutional Trust Company, National Association	19-Jun-19	yes	33.30	on mkt buy	AUD	ORD	751	751
BlackRock Investment Management (Australia) Limited	19-Jun-19	yes	33.28	on mkt buy	AUD	ORD	945	945
BlackRock Fund Advisors	20-Jun-19	no	n/a	in specie	AUD	ORD	31	31
BlackRock Investment Management (Australia) Limited	21-Jun-19	yes	33.97	on mkt buy	AUD	ORD	4,014	4,014
BlackRock Investment Management (Australia) Limited	21-Jun-19	yes	33.97	on mkt buy	AUD	ORD	1,338	1,338
BlackRock Institutional Trust Company, National Association	21-Jun-19	yes	33.97	on mkt buy	AUD	ORD	5,168	5,168
BlackRock Institutional Trust Company, National Association	21-Jun-19	yes	33.97	on mkt buy	AUD	ORD	15,504	15,504
BlackRock Institutional Trust Company, National Association	21-Jun-19	yes	33.97	on mkt buy	AUD	ORD	845	845
BlackRock Institutional Trust Company, National Association	21-Jun-19	yes	33.97	on mkt buy	AUD	ORD	2,539	2,539
BlackRock Institutional Trust Company, National Association	21-Jun-19	yes	33.97	on mkt buy	AUD	ORD	5,008	5,008
BlackRock Fund Advisors	21-Jun-19	no	n/a	in specie	AUD	ORD	928	928
BlackRock Investment Management (UK) Limited	24-Jun-19	yes	33.93	on mkt buy	AUD	ORD	202	202

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
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BlackRock Fund Advisors	24-Jun-19	no	n/a	in specie	AUD	ORD	609	609
BlackRock Advisors (UK) Limited	25-Jun-19	yes	33.11	on mkt buy	AUD	ORD	146	146
BlackRock Investment Management, LLC	25-Jun-19	yes	33.11	on mkt buy	AUD	ORD	673	673
BlackRock Advisors, LLC	27-Jun-19	yes	34.12	on mkt buy	AUD	ORD	88,975	88,975
BlackRock Investment Management, LLC	27-Jun-19	yes	34.36	on mkt buy	AUD	ORD	635	635
BlackRock Advisors, LLC	27-Jun-19	no	n/a	in specie	AUD	OPTION	39,600	39,600
BlackRock Advisors, LLC	28-Jun-19	yes	34.49	on mkt buy	AUD	ORD	32,031	32,031
BlackRock Fund Advisors	28-Jun-19	no	n/a	in specie	AUD	ORD	377	377
BlackRock Advisors, LLC	01-Jul-19	yes	35.27	on mkt buy	AUD	ORD	35,234	35,234
BlackRock Advisors, LLC	02-Jul-19	yes	35.70	on mkt buy	AUD	ORD	71,878	71,878
BlackRock Investment Management, LLC	02-Jul-19	yes	35.70	on mkt buy	AUD	ORD	786	786
BlackRock Advisors (UK) Limited	02-Jul-19	yes	35.66	on mkt buy	AUD	ORD	438	438
BlackRock Investment Management (Australia) Limited	02-Jul-19	yes	35.66	on mkt buy	AUD	ORD	2,267	2,267
BlackRock Fund Advisors	02-Jul-19	no	n/a	in specie	AUD	ORD	62	62
BlackRock Institutional Trust Company, National Association	03-Jul-19	yes	35.44	on mkt buy	AUD	ORD	1,305	1,305
BlackRock Institutional Trust Company, National Association	03-Jul-19	yes	35.44	on mkt buy	AUD	ORD	58	58
BlackRock Institutional Trust Company, National Association	03-Jul-19	yes	35.44	on mkt buy	AUD	ORD	58	58
BlackRock Advisors, LLC	04-Jul-19	yes	35.32	on mkt buy	AUD	ORD	17,113	17,113
BlackRock Investment Management, LLC	04-Jul-19	yes	35.32	on mkt buy	AUD	ORD	2,467	2,467
BlackRock Advisors, LLC	08-Jul-19	yes	35.20	on mkt buy	AUD	ORD	17,067	17,067
BlackRock Japan Co., Ltd.	09-Jul-19	yes	34.45	on mkt buy	AUD	ORD	671	671
BlackRock Advisors, LLC	09-Jul-19	yes	34.70	on mkt buy	AUD	ORD	11,628	11,628
BLACKROCK FINANCIAL MANAGEMENT, INC.	10-Jul-19	yes	35.28	on mkt buy	AUD	ORD	961	961
BlackRock Investment Management, LLC	11-Jul-19	yes	36.42	on mkt buy	AUD	ORD	3,166	3,166
BlackRock Investment Management, LLC	12-Jul-19	yes	36.76	on mkt buy	AUD	ORD	570	570
BlackRock Investment Management, LLC	12-Jul-19	yes	36.46	on mkt buy	AUD	ORD	288	288
BlackRock Investment Management (Australia) Limited	12-Jul-19	yes	36.43	on mkt buy	AUD	ORD	1,620	1,620
BlackRock Investment Management, LLC	16-Jul-19	yes	35.81	on mkt buy	AUD	ORD	944	944
BlackRock Investment Management, LLC	16-Jul-19	yes	36.26	on mkt buy	AUD	ORD	886	886
BlackRock Fund Advisors	16-Jul-19	no	n/a	in specie	AUD	ORD	899	899
BLACKROCK FINANCIAL MANAGEMENT, INC.	17-Jul-19	yes	35.49	on mkt buy	AUD	ORD	1,285	1,285
BlackRock Institutional Trust Company, National Association	18-Jul-19	yes	35.99	on mkt buy	AUD	ORD	49	49
BlackRock Investment Management, LLC	18-Jul-19	yes	35.99	on mkt buy	AUD	ORD	3,278	3,278
BlackRock Investment Management (Australia) Limited	18-Jul-19	yes	36.01	on mkt buy	AUD	ORD	995	995
BlackRock Institutional Trust Company, National Association	18-Jul-19	no	n/a	in specie	AUD	ORD	2,307	2,307
BlackRock Institutional Trust Company, National Association	19-Jul-19	yes	35.96	on mkt buy	AUD	ORD	173	173
BlackRock Investment Management, LLC	19-Jul-19	yes	35.96	on mkt buy	AUD	ORD	1,829	1,829
BlackRock Fund Advisors	19-Jul-19	no	n/a	in specie	AUD	ORD	348	348
BlackRock Investment Management, LLC	23-Jul-19	yes	36.69	on mkt buy	AUD	ORD	4,716	4,716
BlackRock Advisors (UK) Limited	23-Jul-19	yes	36.77	on mkt buy	AUD	ORD	146	146
BlackRock Institutional Trust Company, National Association	23-Jul-19	yes	36.73	on mkt buy	AUD	ORD	35,893	35,893
BlackRock Investment Management, LLC	24-Jul-19	yes	36.94	on mkt buy	AUD	ORD	899	899
BlackRock Investment Management (Australia) Limited	24-Jul-19	yes	36.96	on mkt buy	AUD	ORD	945	945
BlackRock Advisors, LLC	25-Jul-19	yes	37.48	on mkt buy	AUD	ORD	11,941	11,941
BlackRock Investment Management, LLC	25-Jul-19	yes	37.56	on mkt buy	AUD	ORD	1,199	1,199

This is Annexure C of 1 pages referred to in form 603 Notice of initial substantial shareholder

Maria Tricarico, Authorised Signatory	29-Jul-19 Date
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7. Addresses

The addresses of persons named in this form are as follows:

Name	Address
BlackRock Group	
BlackRock Inc.	55 East 52nd Street New York NY 10055 USA
BlackRock (Netherlands) B.V.	Rembrandt Tower, 17th floor Amstelplein Amsterdam Netherlands
BlackRock Advisors (UK) Limited	12 Throgmorton Avenue. London, EC2N 2DL, United Kingdom
BlackRock Advisors, LLC	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States
BlackRock Asset Management Canada Limited	161 Bay Street, Suite 2500 Toronto, Ontario M5J 2S1 Canada
BlackRock Financial Management, Inc.	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States
BlackRock Fund Advisors	400 Howard Street San Francisco, CA, 94105 United States
BlackRock Institutional Trust Company, National Association	1225 17th Street, Suite 300, Denver, CO 80202 (Colorado, USA)
BlackRock International Limited	Exchange Place One, 1 Semple Street, Edinburgh, EH3 8BL, United Kingdom (Scotland, United Kingdom)
BlackRock Investment Management (Australia) Limited	Level 26, 101 Collins Street Melbourne VIC 3000 Australia (Victoria, Australia)
BlackRock Investment Management (UK) Limited	12 Throgmorton Avenue London EC2N 2DL United Kingdom
BlackRock Investment Management, LLC	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States
BlackRock Japan Co., Ltd.	Marunouchi Trust Tower Main, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-8217 (Japan)