

Form 603Corporations Act 2001
Section 671B**Notice of initial substantial holder**To Company Name/Scheme CHARTER HALL LONG WALE REITACN/ARSN 610 772 202**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 29 /05 /2020**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	25,293,290	25,293,290	5.17

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 Bradley Taylor

capacity Authorised Signatory*

sign here

date 02 / 06 / 2020

* 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.

02-Jun-20

Bradley Taylor
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 223,345	223,345	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 636,626	636,626	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 88,640	88,640	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 45,148	45,148	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		ORD 526,547	526,547	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 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.	JPM-JP MORGAN CHASE - NEW YORK		ORD 500,281	500,281	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 38,732	38,732	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 15,114	15,114	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 790,890	790,890	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 3,663,719	3,663,719	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 87,576	87,576	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 6,715,513	6,715,513	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 625,933	625,933	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 2,777	2,777	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.	CITI-CITIBANK, HONG KONG		ORD 58,821	58,821	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 664,329	664,329	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.	JPM-JPM CHASE - SYDNEY		ORD 131,911	131,911	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 1,151,682	1,151,682	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 276,395	276,395	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.	SSB-STATE STREET AUSTRALIA		ORD 145,125	145,125	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.	SSB-STATE STREET SINGAPORE		ORD 20,644	20,644	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 172,413	172,413	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-BONY EUROPE - LONDON		ORD 1,123,805	1,123,805	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 (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 22,703	22,703	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-JP MORGAN FRANKFURT		ORD 130,779	130,779	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.	NT-NORTHERN TRUST UK		ORD 175,594	175,594	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 119,094	119,094	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 27,025	27,025	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-SSB NEW YORK INSTITUTIONAL		ORD 114,284	114,284	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 13,711	13,711	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 275,726	275,726	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 6,708,408	6,708,408	subsidiary of BlackRock Inc.

This is Annexure B of 6 pages referred to in form 603 Notice of initial substantial shareholder

02-Jun-20
Bradley Taylor,
Authorised Signatory
Date

5. Consideration

CHARTER HALL LONG WALE REIT (CLW)								
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	31-Jan-20	no	n/a	in specie	AUD	ORD	1,052	1,052
BlackRock Institutional Trust Company, National Association	31-Jan-20	no	n/a	in specie	AUD	ORD	3,245	3,245
BlackRock Fund Advisors	31-Jan-20	no	n/a	in specie	AUD	ORD	3,352	3,352
BlackRock Institutional Trust Company, National Association	31-Jan-20	yes	5.68	on mkt buy	AUD	ORD	16,508	16,508
BlackRock Fund Advisors	03-Feb-20	no	n/a	in specie	AUD	ORD	2,514	2,514
BlackRock Institutional Trust Company, National Association	03-Feb-20	yes	5.65	on mkt buy	AUD	ORD	247,147	247,147
BlackRock Investment Management (Australia) Limited	03-Feb-20	yes	5.65	on mkt buy	AUD	ORD	2,904	2,904
BlackRock Fund Advisors	04-Feb-20	no	n/a	in specie	AUD	ORD	3,352	3,352
BlackRock Investment Management (Australia) Limited	04-Feb-20	yes	5.67	on mkt buy	AUD	ORD	4,356	4,356
BlackRock Investment Management (Australia) Limited	04-Feb-20	yes	5.67	on mkt buy	AUD	ORD	1,936	1,936
BlackRock Investment Management (Australia) Limited	05-Feb-20	yes	5.62	on mkt buy	AUD	ORD	30,175	30,175
BlackRock Fund Advisors	06-Feb-20	no	n/a	in specie	AUD	ORD	2,095	2,095
BlackRock Fund Advisors	06-Feb-20	no	n/a	in specie	AUD	ORD	5,388	5,388
BlackRock Investment Management (Australia) Limited	07-Feb-20	yes	5.51	on mkt buy	AUD	ORD	1,936	1,936
BlackRock Investment Management (Australia) Limited	10-Feb-20	yes	5.55	on mkt buy	AUD	ORD	4,356	4,356
BlackRock Fund Advisors	11-Feb-20	no	n/a	in specie	AUD	ORD	1,257	1,257
BlackRock Investment Management (Australia) Limited	12-Feb-20	yes	5.61	on mkt buy	AUD	ORD	54,694	54,694
BlackRock Fund Advisors	12-Feb-20	no	n/a	in specie	AUD	ORD	2,933	2,933
BlackRock Fund Advisors	12-Feb-20	no	n/a	in specie	AUD	ORD	2,514	2,514
BlackRock Investment Management (Australia) Limited	12-Feb-20	yes	5.64	on mkt buy	AUD	ORD	803	803
BlackRock Advisors (UK) Limited	12-Feb-20	yes	5.64	on mkt buy	AUD	ORD	611	611
BlackRock Fund Advisors	13-Feb-20	yes	5.75	on mkt buy	AUD	ORD	198,409	198,409
BlackRock Fund Advisors	13-Feb-20	no	n/a	in specie	AUD	ORD	5,028	5,028
BlackRock Investment Management (Australia) Limited	13-Feb-20	yes	5.71	on mkt buy	AUD	ORD	19,710	19,710
BlackRock Investment Management (Australia) Limited	13-Feb-20	yes	5.71	on mkt buy	AUD	ORD	13,003	13,003
BlackRock Fund Advisors	14-Feb-20	no	n/a	in specie	AUD	ORD	2,095	2,095
BlackRock Fund Advisors	14-Feb-20	no	n/a	in specie	AUD	ORD	5,028	5,028
BlackRock Investment Management (Australia) Limited	14-Feb-20	yes	5.75	on mkt buy	AUD	ORD	4,356	4,356
BlackRock Investment Management (Australia) Limited	18-Feb-20	yes	5.75	on mkt buy	AUD	ORD	2,710	2,710
BlackRock Fund Advisors	18-Feb-20	no	n/a	in specie	AUD	ORD	6,704	6,704
BlackRock Investment Management (Australia) Limited	19-Feb-20	yes	5.86	on mkt buy	AUD	ORD	55,256	55,256
BlackRock Investment Management (Australia) Limited	19-Feb-20	no	n/a	in specie	AUD	ORD	54,060	54,060
BlackRock Investment Management, LLC	19-Feb-20	yes	5.91	on mkt buy	AUD	ORD	13,736	13,736
BlackRock Fund Advisors	20-Feb-20	no	n/a	in specie	AUD	ORD	3,352	3,352
BlackRock Institutional Trust Company, National Association	20-Feb-20	yes	5.82	on mkt buy	AUD	ORD	28,964	28,964
BlackRock Fund Advisors	24-Feb-20	no	n/a	in specie	AUD	ORD	2,095	2,095
BlackRock Fund Advisors	25-Feb-20	no	n/a	in specie	AUD	ORD	4,190	4,190
BlackRock Investment Management (Australia) Limited	25-Feb-20	yes	5.69	on mkt buy	AUD	ORD	5,324	5,324
BlackRock Investment Management (Australia) Limited	26-Feb-20	yes	5.60	on mkt buy	AUD	ORD	55,731	55,731
BlackRock Investment Management (Australia) Limited	26-Feb-20	yes	5.60	on mkt buy	AUD	ORD	4,840	4,840

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 Investment Management (Australia) Limited	26-Feb-20	yes	5.60	on mkt buy	AUD	ORD	4,356	4,356
BlackRock Fund Advisors	27-Feb-20	no	n/a	in specie	AUD	ORD	2,514	2,514
BlackRock Institutional Trust Company, National Association	27-Feb-20	yes	5.64	on mkt buy	AUD	ORD	4,188	4,188
BlackRock Fund Advisors	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	531,626	531,626
BlackRock Institutional Trust Company, National Association	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	14,271	14,271
BlackRock Institutional Trust Company, National Association	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	3,875	3,875
BlackRock Institutional Trust Company, National Association	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	13,548	13,548
BlackRock Institutional Trust Company, National Association	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	3,736	3,736
BlackRock Institutional Trust Company, National Association	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	7,693	7,693
BlackRock Institutional Trust Company, National Association	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	1,324	1,324
BlackRock Institutional Trust Company, National Association	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	4,634	4,634
BlackRock Fund Advisors	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	181,915	181,915
BlackRock Institutional Trust Company, National Association	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	4,885	4,885
BlackRock Institutional Trust Company, National Association	28-Feb-20	yes	5.56	on mkt buy	AUD	ORD	1,276	1,276
BlackRock Investment Management (UK) Limited	02-Mar-20	no	n/a	in specie	AUD	ORD	197,349	197,349
BlackRock Fund Advisors	02-Mar-20	no	n/a	in specie	AUD	ORD	1,676	1,676
BlackRock Institutional Trust Company, National Association	02-Mar-20	no	n/a	in specie	AUD	ORD	4,711	4,711
BlackRock Investment Management (Australia) Limited	02-Mar-20	yes	5.47	on mkt buy	AUD	ORD	55,910	55,910
BlackRock Investment Management (Australia) Limited	02-Mar-20	yes	5.43	on mkt buy	AUD	ORD	44,768	44,768
BlackRock Investment Management (Australia) Limited	02-Mar-20	yes	5.43	on mkt buy	AUD	ORD	4,058	4,058
BlackRock Institutional Trust Company, National Association	02-Mar-20	yes	5.43	on mkt buy	AUD	ORD	1,657	1,657
BlackRock Fund Advisors	03-Mar-20	yes	5.53	on mkt buy	AUD	ORD	6,974	6,974
BlackRock Fund Advisors	03-Mar-20	no	n/a	in specie	AUD	ORD	1,696	1,696
BlackRock Institutional Trust Company, National Association	03-Mar-20	yes	5.50	on mkt buy	AUD	ORD	6,145	6,145
BlackRock Fund Advisors	04-Mar-20	no	n/a	in specie	AUD	ORD	4,240	4,240
BlackRock Institutional Trust Company, National Association	04-Mar-20	yes	5.59	on mkt buy	AUD	ORD	5,889	5,889
BlackRock Japan Co., Ltd.	05-Mar-20	yes	5.66	on mkt buy	AUD	ORD	345	345
BlackRock Investment Management (Australia) Limited	05-Mar-20	yes	5.72	on mkt buy	AUD	ORD	32,912	32,912
BlackRock Institutional Trust Company, National Association	06-Mar-20	yes	5.66	on mkt buy	AUD	ORD	26,734	26,734
BlackRock Fund Advisors	09-Mar-20	no	n/a	in specie	AUD	ORD	5,936	5,936
BlackRock Fund Advisors	09-Mar-20	no	n/a	in specie	AUD	ORD	848	848
BlackRock Fund Advisors	09-Mar-20	no	n/a	in specie	AUD	ORD	4,240	4,240
BlackRock Fund Advisors	09-Mar-20	no	n/a	in specie	AUD	ORD	1,696	1,696
BlackRock Advisors (UK) Limited	09-Mar-20	yes	5.51	on mkt buy	AUD	ORD	43,562	43,562
BlackRock Investment Management (Australia) Limited	10-Mar-20	yes	5.43	on mkt buy	AUD	ORD	23,981	23,981
BlackRock Institutional Trust Company, National Association	10-Mar-20	yes	5.43	on mkt buy	AUD	ORD	37,523	37,523
BlackRock Fund Advisors	11-Mar-20	no	n/a	in specie	AUD	ORD	2,100	2,100
BlackRock Investment Management (Australia) Limited	11-Mar-20	yes	5.42	on mkt buy	AUD	ORD	30,965	30,965
BlackRock Investment Management (Australia) Limited	11-Mar-20	yes	5.37	on mkt buy	AUD	ORD	64,318	64,318
BlackRock Fund Advisors	11-Mar-20	yes	5.37	on mkt buy	AUD	ORD	135,920	135,920
BlackRock Japan Co., Ltd.	12-Mar-20	yes	5.24	on mkt buy	AUD	ORD	301	301
BlackRock Investment Management (Australia) Limited	12-Mar-20	yes	4.95	on mkt buy	AUD	ORD	1,936	1,936
BlackRock Investment Management (Australia) Limited	13-Mar-20	yes	4.79	on mkt buy	AUD	ORD	1,452	1,452
BlackRock Investment Management (Australia) Limited	13-Mar-20	yes	4.79	on mkt buy	AUD	ORD	144,304	144,304
BlackRock Fund Advisors	16-Mar-20	no	n/a	in specie	AUD	ORD	4,200	4,200
BlackRock Japan Co., Ltd.	16-Mar-20	yes	4.47	on mkt buy	AUD	ORD	248	248
BlackRock Investment Management (Australia) Limited	16-Mar-20	yes	4.17	on mkt buy	AUD	ORD	4,356	4,356

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 Investment Management (Australia) Limited	16-Mar-20	yes	4.17	on mkt buy	AUD	ORD 968	968
BlackRock Investment Management (Australia) Limited	17-Mar-20	yes	4.40	on mkt buy	AUD	ORD 4,356	4,356
BlackRock Advisors (UK) Limited	17-Mar-20	yes	4.40	on mkt buy	AUD	ORD 611	611
BlackRock Investment Management (Australia) Limited	17-Mar-20	yes	4.40	on mkt buy	AUD	ORD 18,220	18,220
BlackRock Investment Management (Australia) Limited	18-Mar-20	yes	4.14	on mkt buy	AUD	ORD 1,936	1,936
BlackRock Advisors (UK) Limited	18-Mar-20	yes	4.14	on mkt buy	AUD	ORD 1,833	1,833
BlackRock Investment Management (Australia) Limited	18-Mar-20	yes	4.14	on mkt buy	AUD	ORD 9,811	9,811
BlackRock Japan Co., Ltd.	19-Mar-20	yes	4.20	on mkt buy	AUD	ORD 146	146
BlackRock Japan Co., Ltd.	19-Mar-20	yes	4.05	on mkt buy	AUD	ORD 350	350
BlackRock Investment Management (Australia) Limited	19-Mar-20	yes	3.93	on mkt buy	AUD	ORD 1,452	1,452
BlackRock Investment Management (Australia) Limited	19-Mar-20	yes	3.93	on mkt buy	AUD	ORD 3,151	3,151
BlackRock Advisors (UK) Limited	19-Mar-20	yes	3.93	on mkt buy	AUD	ORD 56,490	56,490
BlackRock Fund Advisors	19-Mar-20	yes	3.93	on mkt buy	AUD	ORD 38,035	38,035
BlackRock Investment Management (Australia) Limited	20-Mar-20	yes	3.90	on mkt buy	AUD	ORD 3,388	3,388
BlackRock Investment Management (Australia) Limited	20-Mar-20	yes	3.90	on mkt buy	AUD	ORD 968	968
BlackRock Institutional Trust Company, National Association	20-Mar-20	yes	3.90	on mkt buy	AUD	ORD 20,439	20,439
BlackRock Institutional Trust Company, National Association	20-Mar-20	yes	3.90	on mkt buy	AUD	ORD 14,485	14,485
BlackRock Investment Management (Australia) Limited	20-Mar-20	yes	3.90	on mkt buy	AUD	ORD 3,151	3,151
BlackRock Fund Advisors	20-Mar-20	no	n/a	in specie	AUD	ORD 1,440	1,440
BlackRock (Netherlands) B.V.	20-Mar-20	no	n/a	in specie	AUD	ORD 12,468	12,468
BlackRock Fund Advisors	23-Mar-20	no	n/a	in specie	AUD	ORD 5,400	5,400
BlackRock Investment Management (Australia) Limited	23-Mar-20	yes	3.53	on mkt buy	AUD	ORD 484	484
BlackRock Investment Management, LLC	23-Mar-20	yes	3.53	on mkt buy	AUD	ORD 16,710	16,710
BlackRock Fund Advisors	24-Mar-20	no	n/a	in specie	AUD	ORD 1,596	1,596
BlackRock Fund Advisors	24-Mar-20	no	n/a	in specie	AUD	ORD 6,300	6,300
BlackRock Investment Management (Australia) Limited	24-Mar-20	yes	3.76	on mkt buy	AUD	ORD 484	484
BlackRock Investment Management (Australia) Limited	24-Mar-20	yes	3.76	on mkt buy	AUD	ORD 2,616	2,616
BlackRock Institutional Trust Company, National Association	24-Mar-20	yes	3.76	on mkt buy	AUD	ORD 63,134	63,134
BlackRock Investment Management (Australia) Limited	25-Mar-20	yes	3.89	on mkt buy	AUD	ORD 113,036	113,036
BlackRock Fund Advisors	25-Mar-20	no	n/a	in specie	AUD	ORD 3,360	3,360
BlackRock Japan Co., Ltd.	25-Mar-20	yes	3.94	on mkt buy	AUD	ORD 1,533	1,533
BlackRock Investment Management (Australia) Limited	25-Mar-20	yes	3.89	on mkt buy	AUD	ORD 803	803
BlackRock Investment Management (Australia) Limited	25-Mar-20	yes	3.89	on mkt buy	AUD	ORD 484	484
BlackRock Advisors (UK) Limited	25-Mar-20	yes	3.89	on mkt buy	AUD	ORD 611	611
BlackRock Fund Advisors	26-Mar-20	no	n/a	in specie	AUD	ORD 5,880	5,880
BlackRock Fund Advisors	27-Mar-20	no	n/a	in specie	AUD	ORD 5,040	5,040
BlackRock Fund Advisors	27-Mar-20	no	n/a	in specie	AUD	ORD 2,520	2,520
BlackRock Fund Advisors	27-Mar-20	no	n/a	in specie	AUD	ORD 5,040	5,040
BlackRock Japan Co., Ltd.	27-Mar-20	yes	4.23	on mkt buy	AUD	ORD 483	483
BlackRock Investment Management (Australia) Limited	27-Mar-20	yes	4.20	on mkt buy	AUD	ORD 484	484
BlackRock Institutional Trust Company, National Association	27-Mar-20	yes	4.20	on mkt buy	AUD	ORD 29,890	29,890
BlackRock Fund Advisors	30-Mar-20	no	n/a	in specie	AUD	ORD 4,200	4,200
BlackRock Japan Co., Ltd.	30-Mar-20	yes	4.09	on mkt buy	AUD	ORD 164	164
BlackRock Investment Management (Australia) Limited	30-Mar-20	yes	4.21	on mkt buy	AUD	ORD 4,515	4,515
BlackRock Investment Management (UK) Limited	30-Mar-20	yes	4.21	on mkt buy	AUD	ORD 89,945	89,945
BlackRock Institutional Trust Company, National Association	30-Mar-20	yes	4.21	on mkt buy	AUD	ORD 28,504	28,504
BlackRock Institutional Trust Company, National Association	30-Mar-20	yes	4.21	on mkt buy	AUD	ORD 214,246	214,246
BlackRock Investment Management (Australia) Limited	30-Mar-20	yes	4.22	on mkt buy	AUD	ORD 1,936	1,936
BlackRock Institutional Trust Company, National Association	31-Mar-20	yes	4.37	on mkt buy	AUD	ORD 42,693	42,693

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 Asset Management Canada Limited	31-Mar-20	yes	4.37	on mkt buy	AUD	ORD	26,623	26,623
BlackRock Institutional Trust Company, National Association	31-Mar-20	yes	4.37	on mkt buy	AUD	ORD	115,133	115,133
BlackRock Institutional Trust Company, National Association	31-Mar-20	yes	4.37	on mkt buy	AUD	ORD	119,780	119,780
BLACKROCK ADVISORS, LLC	31-Mar-20	yes	4.37	on mkt buy	AUD	ORD	25,271	25,271
BlackRock Investment Management (Australia) Limited	31-Mar-20	yes	4.39	on mkt buy	AUD	ORD	1,606	1,606
BlackRock Investment Management (Australia) Limited	31-Mar-20	yes	4.39	on mkt buy	AUD	ORD	36,734	36,734
BlackRock Investment Management (Australia) Limited	31-Mar-20	yes	4.39	on mkt buy	AUD	ORD	5,045	5,045
BlackRock Fund Advisors	01-Apr-20	no	n/a	in specie	AUD	ORD	7,980	7,980
BlackRock Fund Advisors	01-Apr-20	no	n/a	in specie	AUD	ORD	1,680	1,680
BlackRock Fund Advisors	01-Apr-20	no	n/a	in specie	AUD	ORD	5,040	5,040
BlackRock Fund Advisors	01-Apr-20	no	n/a	in specie	AUD	ORD	3,690	3,690
BlackRock Advisors (UK) Limited	01-Apr-20	yes	4.45	on mkt buy	AUD	ORD	3,055	3,055
BlackRock Institutional Trust Company, National Association	01-Apr-20	yes	4.45	on mkt buy	AUD	ORD	47,252	47,252
BlackRock Fund Advisors	01-Apr-20	no	n/a	in specie	AUD	ORD	4,620	4,620
BlackRock Fund Advisors	02-Apr-20	no	n/a	in specie	AUD	ORD	2,100	2,100
BlackRock Fund Advisors	02-Apr-20	no	n/a	in specie	AUD	ORD	6,720	6,720
BlackRock Institutional Trust Company, National Association	02-Apr-20	yes	4.20	on mkt buy	AUD	ORD	27,459	27,459
BlackRock Investment Management (Australia) Limited	03-Apr-20	yes	4.18	on mkt buy	AUD	ORD	5,324	5,324
BlackRock Investment Management (Australia) Limited	03-Apr-20	yes	4.18	on mkt buy	AUD	ORD	968	968
BlackRock Investment Management (Australia) Limited	03-Apr-20	yes	4.18	on mkt buy	AUD	ORD	45,533	45,533
BLACKROCK ADVISORS, LLC	03-Apr-20	yes	4.18	on mkt buy	AUD	ORD	22,601	22,601
BlackRock Fund Advisors	06-Apr-20	no	n/a	in specie	AUD	ORD	2,520	2,520
BlackRock Fund Advisors	06-Apr-20	no	n/a	in specie	AUD	ORD	6,720	6,720
BlackRock Fund Advisors	06-Apr-20	no	n/a	in specie	AUD	ORD	6,300	6,300
BlackRock Fund Advisors	06-Apr-20	no	n/a	in specie	AUD	ORD	2,520	2,520
BlackRock Institutional Trust Company, National Association	06-Apr-20	yes	4.32	on mkt buy	AUD	ORD	11,114	11,114
BlackRock Institutional Trust Company, National Association	06-Apr-20	yes	4.32	on mkt buy	AUD	ORD	56,779	56,779
BlackRock Investment Management (Australia) Limited	07-Apr-20	yes	4.39	on mkt buy	AUD	ORD	4,840	4,840
BlackRock Advisors (UK) Limited	07-Apr-20	yes	4.39	on mkt buy	AUD	ORD	611	611
BlackRock Advisors (UK) Limited	07-Apr-20	yes	4.39	on mkt buy	AUD	ORD	1,222	1,222
BlackRock Investment Management (Australia) Limited	08-Apr-20	yes	4.45	on mkt buy	AUD	ORD	21,735	21,735
BlackRock Investment Management (Australia) Limited	08-Apr-20	yes	4.45	on mkt buy	AUD	ORD	4,347	4,347
BlackRock Investment Management (Australia) Limited	08-Apr-20	yes	4.45	on mkt buy	AUD	ORD	4,978	4,978
BlackRock Institutional Trust Company, National Association	08-Apr-20	yes	4.45	on mkt buy	AUD	ORD	95,796	95,796
BlackRock Investment Management (Australia) Limited	09-Apr-20	yes	4.67	on mkt buy	AUD	ORD	2,415	2,415
BlackRock Fund Advisors	09-Apr-20	yes	4.67	on mkt buy	AUD	ORD	36,863	36,863
BlackRock Fund Advisors	14-Apr-20	no	n/a	in specie	AUD	ORD	3,360	3,360
BlackRock Investment Management (Australia) Limited	14-Apr-20	yes	4.52	on mkt buy	AUD	ORD	5,958	5,958
BlackRock Investment Management (Australia) Limited	15-Apr-20	yes	4.58	on mkt buy	AUD	ORD	3,151	3,151
BlackRock Advisors (UK) Limited	15-Apr-20	yes	4.58	on mkt buy	AUD	ORD	611	611
BlackRock Institutional Trust Company, National Association	16-Apr-20	yes	4.55	on mkt buy	AUD	ORD	2,825	2,825
BlackRock Institutional Trust Company, National Association	16-Apr-20	yes	4.55	on mkt buy	AUD	ORD	27,945	27,945
BlackRock Investment Management (Australia) Limited	17-Apr-20	yes	4.66	on mkt buy	AUD	ORD	3,151	3,151
BlackRock Investment Management (Australia) Limited	17-Apr-20	yes	4.66	on mkt buy	AUD	ORD	483	483
BlackRock Investment Management (UK) Limited	17-Apr-20	yes	4.66	on mkt buy	AUD	ORD	8,613	8,613
BlackRock Institutional Trust Company, National Association	17-Apr-20	yes	4.66	on mkt buy	AUD	ORD	5,936	5,936
BlackRock Investment Management (Australia) Limited	21-Apr-20	yes	4.38	on mkt buy	AUD	ORD	4,347	4,347

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 Investment Management (Australia) Limited	21-Apr-20	yes	4.38	on mkt buy	AUD	ORD 483	483
BlackRock Fund Advisors	22-Apr-20	no	n/a	in specie	AUD	ORD 840	840
BlackRock Investment Management (Australia) Limited	22-Apr-20	yes	4.37	on mkt buy	AUD	ORD 1,932	1,932
BlackRock Investment Management (Australia) Limited	24-Apr-20	yes	4.44	on mkt buy	AUD	ORD 966	966
BlackRock Japan Co., Ltd.	27-Apr-20	yes	4.49	on mkt buy	AUD	ORD 155	155
BlackRock Investment Management (Australia) Limited	28-Apr-20	yes	4.41	on mkt buy	AUD	ORD 22,181	22,181
BlackRock Investment Management (Australia) Limited	29-Apr-20	yes	4.34	on mkt buy	AUD	ORD 1,606	1,606
BlackRock Investment Management (Australia) Limited	29-Apr-20	yes	4.34	on mkt buy	AUD	ORD 966	966
BlackRock Investment Management (Australia) Limited	30-Apr-20	yes	4.48	on mkt buy	AUD	ORD 1,449	1,449
BlackRock Institutional Trust Company, National Association	30-Apr-20	yes	4.48	on mkt buy	AUD	ORD 47,649	47,649
BlackRock Institutional Trust Company, National Association	30-Apr-20	yes	4.48	on mkt buy	AUD	ORD 22,140	22,140
BlackRock Institutional Trust Company, National Association	30-Apr-20	yes	4.48	on mkt buy	AUD	ORD 127,528	127,528
BLACKROCK ADVISORS, LLC	30-Apr-20	yes	4.48	on mkt buy	AUD	ORD 24,915	24,915
BlackRock Institutional Trust Company, National Association	30-Apr-20	yes	4.48	on mkt buy	AUD	ORD 36,102	36,102
BlackRock Investment Management (Australia) Limited	30-Apr-20	yes	4.48	on mkt buy	AUD	ORD 966	966
BlackRock Asset Management Canada Limited	30-Apr-20	no	n/a	in specie	AUD	ORD 19,901	19,901
BlackRock Investment Management (Australia) Limited	01-May-20	yes	4.16	on mkt buy	AUD	ORD 3,864	3,864
BlackRock Investment Management (Australia) Limited	04-May-20	yes	4.00	on mkt buy	AUD	ORD 483	483
BlackRock Institutional Trust Company, National Association	05-May-20	yes	4.07	on mkt buy	AUD	ORD 6,043	6,043
BlackRock Investment Management (Australia) Limited	06-May-20	yes	4.07	on mkt buy	AUD	ORD 483	483
BlackRock Investment Management (Australia) Limited	07-May-20	yes	4.13	on mkt buy	AUD	ORD 483	483
BlackRock Investment Management (Australia) Limited	11-May-20	yes	4.23	on mkt buy	AUD	ORD 26,082	26,082
BlackRock Investment Management (Australia) Limited	11-May-20	yes	4.23	on mkt buy	AUD	ORD 4,015	4,015
BlackRock Investment Management (Australia) Limited	11-May-20	yes	4.23	on mkt buy	AUD	ORD 4,015	4,015
BlackRock Investment Management (Australia) Limited	11-May-20	yes	4.23	on mkt buy	AUD	ORD 5,313	5,313
BlackRock Investment Management (Australia) Limited	11-May-20	yes	4.23	on mkt buy	AUD	ORD 3,212	3,212
BlackRock Investment Management (Australia) Limited	11-May-20	yes	4.23	on mkt buy	AUD	ORD 966	966
BlackRock Asset Management Canada Limited	11-May-20	yes	4.23	on mkt buy	AUD	ORD 26,722	26,722
BlackRock Japan Co., Ltd.	12-May-20	yes	4.25	on mkt buy	AUD	ORD 179	179
BlackRock Investment Management (Australia) Limited	12-May-20	yes	4.19	on mkt buy	AUD	ORD 4,347	4,347
BlackRock Investment Management (Australia) Limited	12-May-20	yes	4.19	on mkt buy	AUD	ORD 3,152	3,152
BlackRock Institutional Trust Company, National Association	13-May-20	yes	4.02	on mkt buy	AUD	ORD 58,633	58,633
BlackRock Fund Advisors	13-May-20	yes	4.02	on mkt buy	AUD	ORD 253,241	253,241
BlackRock Japan Co., Ltd.	14-May-20	yes	4.05	on mkt buy	AUD	ORD 406	406
BlackRock Investment Management, LLC	14-May-20	yes	4.04	on mkt buy	AUD	ORD 9,891	9,891
BlackRock Investment Management (Australia) Limited	19-May-20	yes	4.07	on mkt buy	AUD	ORD 1,449	1,449
BlackRock Advisors (UK) Limited	19-May-20	yes	4.07	on mkt buy	AUD	ORD 50,906	50,906
BlackRock Fund Advisors	19-May-20	yes	4.07	on mkt buy	AUD	ORD 1,540	1,540
BlackRock Investment Management (Australia) Limited	20-May-20	no	n/a	in specie	AUD	ORD 1,877,893	1,877,893
BlackRock Investment Management (UK) Limited	20-May-20	yes	4.14	on mkt buy	AUD	ORD 59,313	59,313
BlackRock Asset Management Canada Limited	20-May-20	yes	4.10	on mkt buy	AUD	ORD 26,560	26,560
BlackRock Investment Management (Australia) Limited	26-May-20	yes	4.38	on mkt buy	AUD	ORD 52,181	52,181

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 Investment Management (Australia) Limited	26-May-20	yes	4.38	on mkt buy	AUD	ORD	27,365	27,365
BlackRock Fund Advisors	26-May-20	no	n/a	in specie	AUD	ORD	3,360	3,360
BlackRock Fund Advisors	27-May-20	no	n/a	in specie	AUD	ORD	3,360	3,360
BlackRock Fund Advisors	28-May-20	no	n/a	in specie	AUD	ORD	2,520	2,520
BlackRock Investment Management (Australia) Limited	28-May-20	yes	4.33	on mkt buy	AUD	ORD	4,347	4,347
BlackRock Investment Management (Australia) Limited	29-May-20	yes	4.36	on mkt buy	AUD	ORD	2,209	2,209
BlackRock Investment Management (UK) Limited	29-May-20	yes	4.36	on mkt buy	AUD	ORD	22,496	22,496
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.36	on mkt buy	AUD	ORD	88,079	88,079
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.36	on mkt buy	AUD	ORD	28,410	28,410
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.36	on mkt buy	AUD	ORD	1,988	1,988
BlackRock Fund Advisors	29-May-20	yes	4.36	on mkt buy	AUD	ORD	258,865	258,865
BlackRock Fund Advisors	29-May-20	yes	4.36	on mkt buy	AUD	ORD	470,574	470,574
BLACKROCK ADVISORS, LLC	29-May-20	yes	4.36	on mkt buy	AUD	ORD	19,568	19,568
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.36	on mkt buy	AUD	ORD	9,668	9,668
BlackRock Investment Management (Australia) Limited	29-May-20	yes	4.36	on mkt buy	AUD	ORD	3,752	3,752
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.36	on mkt buy	AUD	ORD	23,496	23,496
BLACKROCK FINANCIAL MANAGEMENT, INC.	29-May-20	yes	4.36	on mkt buy	AUD	ORD	486	486
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	30,238	30,238
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	8,754	8,754
BlackRock Investment Management (Australia) Limited	29-May-20	yes	4.38	on mkt buy	AUD	ORD	770	770
BlackRock Investment Management (UK) Limited	29-May-20	yes	4.38	on mkt buy	AUD	ORD	7,862	7,862
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	30,795	30,795
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	9,935	9,935
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	692	692
BlackRock Fund Advisors	29-May-20	yes	4.38	on mkt buy	AUD	ORD	90,510	90,510
BlackRock Fund Advisors	29-May-20	yes	4.38	on mkt buy	AUD	ORD	164,535	164,535
BLACKROCK ADVISORS, LLC	29-May-20	yes	4.38	on mkt buy	AUD	ORD	6,840	6,840
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	3,377	3,377
BLACKROCK FINANCIAL MANAGEMENT, INC.	29-May-20	yes	4.38	on mkt buy	AUD	ORD	167	167
BlackRock Investment Management (Australia) Limited	29-May-20	yes	4.38	on mkt buy	AUD	ORD	1,310	1,310
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	8,214	8,214
BlackRock Investment Management (Australia) Limited	29-May-20	yes	4.38	on mkt buy	AUD	ORD	107	107
BlackRock Investment Management (UK) Limited	29-May-20	yes	4.38	on mkt buy	AUD	ORD	1,098	1,098
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	4,303	4,303
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	1,388	1,388
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	97	97
BlackRock Fund Advisors	29-May-20	yes	4.38	on mkt buy	AUD	ORD	12,646	12,646
BlackRock Fund Advisors	29-May-20	yes	4.38	on mkt buy	AUD	ORD	22,990	22,990
BLACKROCK ADVISORS, LLC	29-May-20	yes	4.38	on mkt buy	AUD	ORD	955	955
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	472	472
BLACKROCK FINANCIAL MANAGEMENT, INC.	29-May-20	yes	4.38	on mkt buy	AUD	ORD	23	23
BlackRock Investment Management (Australia) Limited	29-May-20	yes	4.38	on mkt buy	AUD	ORD	183	183
BlackRock Institutional Trust Company, National Association	29-May-20	yes	4.38	on mkt buy	AUD	ORD	1,148	1,148
BlackRock Fund Advisors	29-May-20	no	n/a	in specie	AUD	ORD	10,026	10,026

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

02-Jun-20

Bradley Taylor,
Authorised Signatory

Date

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 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)