

PG&E Corporation Securities Litigation

TABLES FOR PLAN OF ALLOCATION OF NET SETTLEMENT FUND

TABLE 1

**PG&E Publicly-Traded Common Stock
Artificial Inflation for Purposes of Calculating Purchase and Sale Inflation
in Plan of Allocation**

Transaction Date	Artificial Inflation Per Share
April 29, 2015 – May 12, 2015	\$51.29
May 13, 2015	\$50.94
May 14, 2015 – June 7, 2015	\$51.29
June 8, 2015	\$50.79
June 9, 2015	\$50.33
June 10, 2015	\$50.43
June 11, 2015	\$50.62
June 12, 2015 – June 14, 2015	\$50.24
June 15, 2015	\$49.81
June 16, 2015	\$50.11
June 17, 2015	\$50.80
June 18, 2015	\$51.29
June 19, 2015 – June 21, 2015	\$51.08
June 22, 2015	\$51.15
June 23, 2015	\$50.44
June 24, 2015	\$49.85
June 25, 2015	\$49.60
June 26, 2015 – June 28, 2015	\$49.70
June 29, 2015	\$49.33
June 30, 2015	\$49.10
July 1, 2015	\$49.38
July 2, 2015 – July 5, 2015	\$49.79
July 6, 2015	\$50.03
July 7, 2015 – July 8, 2015	\$51.29
July 9, 2015	\$50.70
July 10, 2015 – July 12, 2015	\$51.12
July 13, 2015	\$51.22

Transaction Date	Artificial Inflation Per Share
July 14, 2015	\$51.00
July 15, 2015 – July 19, 2015	\$51.29
July 20, 2015	\$51.19
July 21, 2015	\$50.60
July 22, 2015	\$51.29
July 23, 2015	\$50.33
July 24, 2015 – July 26, 2015	\$50.35
July 27, 2015 – August 23, 2015	\$51.29
August 24, 2015	\$50.41
August 25, 2015	\$48.96
August 26, 2015	\$49.43
August 27, 2015	\$50.34
August 28, 2015 – August 30, 2015	\$50.42
August 31, 2015	\$49.58
September 1, 2015	\$47.88
September 2, 2015	\$47.93
September 3, 2015	\$48.30
September 4, 2015 – September 7, 2015	\$47.60
September 8, 2015	\$48.78
September 9, 2015	\$47.91
September 10, 2015	\$47.70
September 11, 2015 – September 13, 2015	\$48.44
September 14, 2015	\$48.49
September 15, 2015	\$48.80
September 16, 2015	\$49.28
September 17, 2015	\$50.09
September 18, 2015 – September 20, 2015	\$50.53
September 21, 2015	\$51.18
September 22, 2015 – October 11, 2017	\$51.29
October 12, 2017	\$46.16
October 13, 2017 – December 20, 2017	\$39.49
December 21, 2017 – May 28, 2018	\$33.08
May 29, 2018 – June 10, 2018	\$30.66
June 11, 2018 – November 8, 2018	\$29.27
November 9, 2018 – November 11, 2018	\$21.48
November 12, 2018 – November 13, 2018	\$14.91
November 14, 2018	\$8.01

TABLE 2

**PG&E Publicly-Traded Common Stock - Closing and Average Closing Price
November 15, 2018 – February 12, 2019**

Date	Closing Price	Average Closing Price between November 15, 2018 and Date Shown	Date	Closing Price	Average Closing Price between November 15, 2018 and Date Shown
11/15/2018	\$17.74	\$17.74	1/2/2019	\$23.80	\$24.70
11/16/2018	\$24.40	\$21.07	1/3/2019	\$23.95	\$24.67
11/19/2018	\$23.26	\$21.80	1/4/2019	\$24.40	\$24.67
11/20/2018	\$23.51	\$22.23	1/7/2019	\$18.95	\$24.50
11/21/2018	\$24.30	\$22.64	1/8/2019	\$17.56	\$24.30
11/23/2018	\$23.84	\$22.84	1/9/2019	\$17.83	\$24.12
11/26/2018	\$25.12	\$23.17	1/10/2019	\$17.76	\$23.95
11/27/2018	\$26.97	\$23.64	1/11/2019	\$17.59	\$23.78
11/28/2018	\$27.46	\$24.07	1/14/2019	\$8.38	\$23.39
11/29/2018	\$26.76	\$24.34	1/15/2019	\$6.91	\$22.97
11/30/2018	\$26.38	\$24.52	1/16/2019	\$7.03	\$22.58
12/3/2018	\$27.11	\$24.74	1/17/2019	\$6.36	\$22.20
12/4/2018	\$26.75	\$24.89	1/18/2019	\$7.23	\$21.85
12/6/2018	\$26.03	\$24.97	1/22/2019	\$7.70	\$21.53
12/7/2018	\$25.79	\$25.03	1/23/2019	\$7.99	\$21.23
12/10/2018	\$25.89	\$25.08	1/24/2019	\$13.95	\$21.07
12/11/2018	\$26.06	\$25.14	1/25/2019	\$11.77	\$20.87
12/12/2018	\$26.39	\$25.21	1/28/2019	\$12.01	\$20.69
12/13/2018	\$26.51	\$25.28	1/29/2019	\$13.99	\$20.55
12/14/2018	\$26.01	\$25.31	1/30/2019	\$13.67	\$20.41
12/17/2018	\$24.44	\$25.27	1/31/2019	\$13.00	\$20.27
12/18/2018	\$23.02	\$25.17	2/1/2019	\$13.08	\$20.13
12/19/2018	\$23.75	\$25.11	2/4/2019	\$13.29	\$20.00
12/20/2018	\$23.85	\$25.06	2/5/2019	\$14.08	\$19.89
12/21/2018	\$22.75	\$24.96	2/6/2019	\$13.67	\$19.78
12/24/2018	\$23.15	\$24.89	2/7/2019	\$14.06	\$19.68
12/26/2018	\$23.33	\$24.84	2/8/2019	\$14.20	\$19.58
12/27/2018	\$23.60	\$24.79	2/11/2019	\$14.33	\$19.49
12/28/2018	\$23.89	\$24.76	2/12/2019	\$15.43	\$19.42
12/31/2018	\$23.75	\$24.73			

TABLE 3

**PG&E Preferred Stock
Artificial Inflation for Purposes of Calculating Purchase and Sale Inflation
in Plan of Allocation**

Transaction Date	Artificial Inflation Per Share							
	CUSIP: 694308206	CUSIP: 694308305	CUSIP: 694308404	CUSIP: 694308503	CUSIP: 694308602	CUSIP: 694308701	CUSIP: 694308800	CUSIP: 694308883
4/29/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
4/30/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/1/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/4/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/5/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/6/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/7/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/8/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/11/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/12/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/13/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/14/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/15/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/18/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/19/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/20/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/21/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/22/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/26/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/27/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/28/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
5/29/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/1/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/2/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/3/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/4/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/5/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/8/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/9/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/10/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/11/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/12/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/15/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/16/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/17/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/18/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/19/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/22/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/23/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/24/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/25/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/26/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/29/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68
6/30/2015	\$10.23	\$8.43	\$9.43	\$8.46	\$9.31	\$8.69	\$8.68	\$8.68

Transaction Date	Artificial Inflation Per Share							
	CUSIP: 694308206	CUSIP: 694308305	CUSIP: 694308404	CUSIP: 694308503	CUSIP: 694308602	CUSIP: 694308701	CUSIP: 694308800	CUSIP: 694308883
5/2/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/3/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/4/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/7/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/8/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/9/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/10/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/11/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/14/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/15/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/16/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/17/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/18/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/21/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/22/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/23/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/24/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/25/2018	\$7.79	\$5.82	\$7.13	\$6.08	\$6.31	\$5.45	\$6.42	\$5.80
5/29/2018	\$7.59	\$5.47	\$7.04	\$5.53	\$6.17	\$5.34	\$6.26	\$5.60
5/30/2018	\$7.59	\$5.47	\$7.04	\$5.53	\$6.17	\$5.34	\$6.26	\$5.60
5/31/2018	\$7.59	\$5.47	\$7.04	\$5.53	\$6.17	\$5.34	\$6.26	\$5.60
6/1/2018	\$7.59	\$5.47	\$7.04	\$5.53	\$6.17	\$5.34	\$6.26	\$5.60
6/4/2018	\$7.59	\$5.47	\$7.04	\$5.53	\$6.17	\$5.34	\$6.26	\$5.60
6/5/2018	\$7.59	\$5.47	\$7.04	\$5.53	\$6.17	\$5.34	\$6.26	\$5.60
6/6/2018	\$7.59	\$5.47	\$7.04	\$5.53	\$6.17	\$5.34	\$6.26	\$5.60
6/7/2018	\$7.59	\$5.47	\$7.04	\$5.53	\$6.17	\$5.34	\$6.26	\$5.60
6/8/2018	\$7.59	\$5.47	\$7.04	\$5.53	\$6.17	\$5.34	\$6.26	\$5.60
6/11/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/12/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/13/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/14/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/15/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/18/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/19/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/20/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/21/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/22/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/25/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/26/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/27/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/28/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
6/29/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
7/2/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
7/3/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
7/5/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
7/6/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
7/9/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
7/10/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
7/11/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
7/12/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
7/13/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60

Transaction Date	Artificial Inflation Per Share							
	CUSIP: 694308206	CUSIP: 694308305	CUSIP: 694308404	CUSIP: 694308503	CUSIP: 694308602	CUSIP: 694308701	CUSIP: 694308800	CUSIP: 694308883
9/26/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
9/27/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
9/28/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/1/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/2/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/3/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/4/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/5/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/8/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/9/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/10/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/11/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/12/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/15/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/16/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/17/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/18/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/19/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/22/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/23/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/24/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/25/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/26/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/29/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/30/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
10/31/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
11/1/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
11/2/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
11/5/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
11/6/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
11/7/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
11/8/2018	\$7.07	\$5.20	\$6.84	\$5.51	\$5.67	\$5.34	\$6.17	\$5.60
11/9/2018	\$6.60	\$5.02	\$6.84	\$5.31	\$5.29	\$5.34	\$5.78	\$5.60
11/12/2018	\$5.51	\$3.37	\$3.47	\$3.32	\$4.12	\$3.92	\$4.52	\$4.76
11/13/2018	\$5.51	\$3.37	\$3.47	\$3.32	\$4.12	\$3.92	\$4.52	\$4.76
11/14/2018	\$0.00	\$0.00	\$0.48	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00
11/15/2018	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

TABLE 4**PG&E Preferred Stock - Average Closing Prices
November 15, 2018 – February 12, 2019**

Date	Average Closing Price Between November 15, 2018 and Date Shown							
	CUSIP: 694308206	CUSIP: 694308305	CUSIP: 694308404	CUSIP: 694308503	CUSIP: 694308602	CUSIP: 694308701	CUSIP: 694308800	CUSIP: 694308883
11/15/2018	\$18.89	\$17.25	\$15.37	\$14.78	\$15.50	\$14.03	\$15.22	\$14.36
11/16/2018	\$20.57	\$18.93	\$17.33	\$16.81	\$17.38	\$16.19	\$16.61	\$15.93
11/19/2018	\$20.85	\$19.37	\$17.81	\$17.34	\$17.81	\$16.72	\$16.65	\$16.51
11/20/2018	\$21.00	\$19.56	\$18.11	\$17.61	\$17.97	\$16.97	\$16.68	\$16.43
11/21/2018	\$21.30	\$19.70	\$18.16	\$17.77	\$18.05	\$16.97	\$16.67	\$16.41
11/23/2018	\$21.41	\$19.78	\$18.25	\$17.87	\$18.21	\$17.36	\$16.67	\$16.41
11/26/2018	\$21.40	\$19.97	\$18.35	\$17.95	\$18.42	\$17.47	\$16.65	\$16.41
11/27/2018	\$21.52	\$20.08	\$18.45	\$18.09	\$18.58	\$17.64	\$16.75	\$16.48
11/28/2018	\$21.59	\$20.19	\$18.45	\$18.21	\$18.58	\$17.64	\$16.85	\$16.62
11/29/2018	\$21.58	\$20.25	\$18.53	\$18.30	\$18.64	\$17.73	\$16.90	\$16.68
11/30/2018	\$21.59	\$20.22	\$18.52	\$18.30	\$18.64	\$17.76	\$16.92	\$16.69
12/3/2018	\$21.58	\$20.19	\$18.51	\$18.29	\$18.62	\$17.75	\$16.91	\$16.68
12/4/2018	\$21.54	\$20.15	\$18.46	\$18.25	\$18.57	\$17.84	\$16.84	\$16.69
12/6/2018	\$21.45	\$20.10	\$18.43	\$18.20	\$18.50	\$17.76	\$16.80	\$16.69
12/7/2018	\$21.41	\$20.10	\$18.43	\$18.16	\$18.45	\$17.77	\$16.77	\$16.66
12/10/2018	\$21.34	\$20.06	\$18.38	\$18.12	\$18.40	\$17.71	\$16.71	\$16.58
12/11/2018	\$21.25	\$19.96	\$18.38	\$18.06	\$18.40	\$17.64	\$16.66	\$16.50
12/12/2018	\$21.17	\$19.90	\$18.31	\$18.01	\$18.36	\$17.59	\$16.62	\$16.44
12/13/2018	\$21.10	\$19.81	\$18.23	\$17.96	\$18.28	\$17.52	\$16.58	\$16.40
12/14/2018	\$21.03	\$19.72	\$18.15	\$17.96	\$18.21	\$17.40	\$16.58	\$16.40
12/17/2018	\$20.94	\$19.63	\$18.06	\$17.87	\$18.13	\$17.29	\$16.58	\$16.40
12/18/2018	\$20.85	\$19.56	\$18.06	\$17.77	\$18.01	\$17.29	\$16.48	\$16.40
12/19/2018	\$20.75	\$19.49	\$17.96	\$17.66	\$17.88	\$17.17	\$16.48	\$16.30
12/20/2018	\$20.63	\$19.41	\$17.82	\$17.52	\$17.76	\$17.06	\$16.41	\$16.25
12/21/2018	\$20.53	\$19.29	\$17.71	\$17.44	\$17.64	\$16.94	\$16.31	\$16.18
12/24/2018	\$20.43	\$19.20	\$17.71	\$17.34	\$17.54	\$16.82	\$16.20	\$16.13
12/26/2018	\$20.32	\$19.09	\$17.58	\$17.25	\$17.43	\$16.74	\$16.10	\$16.06
12/27/2018	\$20.24	\$19.00	\$17.47	\$17.15	\$17.34	\$16.66	\$16.01	\$15.96
12/28/2018	\$20.20	\$18.92	\$17.40	\$17.11	\$17.27	\$16.58	\$15.94	\$15.86
12/31/2018	\$20.17	\$18.86	\$17.33	\$17.06	\$17.22	\$16.52	\$15.86	\$15.77
1/2/2019	\$20.14	\$18.83	\$17.27	\$17.02	\$17.22	\$16.52	\$15.82	\$15.74
1/3/2019	\$20.10	\$18.83	\$17.22	\$16.99	\$17.19	\$16.45	\$15.78	\$15.78
1/4/2019	\$20.08	\$18.79	\$17.17	\$16.97	\$17.15	\$16.39	\$15.78	\$15.74
1/7/2019	\$20.01	\$18.71	\$17.09	\$16.91	\$17.07	\$16.32	\$15.71	\$15.66
1/8/2019	\$19.95	\$18.64	\$17.04	\$16.89	\$17.03	\$16.27	\$15.66	\$15.59
1/9/2019	\$19.91	\$18.59	\$16.98	\$16.85	\$16.98	\$16.23	\$15.62	\$15.55
1/10/2019	\$19.87	\$18.54	\$16.93	\$16.81	\$16.93	\$16.18	\$15.58	\$15.52
1/11/2019	\$19.84	\$18.49	\$16.87	\$16.76	\$16.88	\$16.13	\$15.55	\$15.47
1/14/2019	\$19.74	\$18.37	\$16.77	\$16.67	\$16.77	\$16.04	\$15.47	\$15.37
1/15/2019	\$19.60	\$18.24	\$16.64	\$16.56	\$16.65	\$15.94	\$15.37	\$15.27
1/16/2019	\$19.48	\$18.11	\$16.52	\$16.45	\$16.54	\$15.84	\$15.29	\$15.17
1/17/2019	\$19.40	\$18.02	\$16.44	\$16.38	\$16.46	\$15.78	\$15.23	\$15.12
1/18/2019	\$19.31	\$17.92	\$16.36	\$16.30	\$16.38	\$15.70	\$15.17	\$15.05
1/22/2019	\$19.23	\$17.83	\$16.28	\$16.24	\$16.31	\$15.65	\$15.11	\$14.99

Date	Average Closing Price Between November 15, 2018 and Date Shown							
	CUSIP: 694308206	CUSIP: 694308305	CUSIP: 694308404	CUSIP: 694308503	CUSIP: 694308602	CUSIP: 694308701	CUSIP: 694308800	CUSIP: 694308883
1/23/2019	\$19.15	\$17.75	\$16.21	\$16.17	\$16.24	\$15.59	\$15.04	\$14.93
1/24/2019	\$19.17	\$17.74	\$16.23	\$16.13	\$16.24	\$15.62	\$15.06	\$14.96
1/25/2019	\$19.16	\$17.73	\$16.22	\$16.12	\$16.23	\$15.61	\$15.06	\$14.94
1/28/2019	\$19.15	\$17.71	\$16.21	\$16.11	\$16.23	\$15.60	\$15.05	\$14.92
1/29/2019	\$19.15	\$17.70	\$16.22	\$16.13	\$16.24	\$15.61	\$15.07	\$14.95
1/30/2019	\$19.16	\$17.70	\$16.23	\$16.13	\$16.25	\$15.62	\$15.09	\$14.98
1/31/2019	\$19.17	\$17.70	\$16.25	\$16.14	\$16.24	\$15.63	\$15.11	\$15.01
2/1/2019	\$19.18	\$17.70	\$16.25	\$16.15	\$16.24	\$15.64	\$15.13	\$15.01
2/4/2019	\$19.19	\$17.70	\$16.25	\$16.15	\$16.24	\$15.65	\$15.16	\$15.04
2/5/2019	\$19.20	\$17.70	\$16.25	\$16.16	\$16.24	\$15.66	\$15.19	\$15.06
2/6/2019	\$19.21	\$17.70	\$16.25	\$16.16	\$16.24	\$15.67	\$15.21	\$15.08
2/7/2019	\$19.22	\$17.70	\$16.26	\$16.17	\$16.25	\$15.68	\$15.23	\$15.12
2/8/2019	\$19.22	\$17.70	\$16.27	\$16.18	\$16.25	\$15.69	\$15.26	\$15.16
2/11/2019	\$19.23	\$17.70	\$16.28	\$16.20	\$16.27	\$15.71	\$15.29	\$15.19
2/12/2019	\$19.24	\$17.72	\$16.29	\$16.21	\$16.29	\$15.75	\$15.33	\$15.23

TABLE 5

**PG&E Exchange Act Notes
Artificial Inflation¹ for Purposes of Calculating Purchase and Sale Inflation in Plan of Allocation**

Transaction Date	Artificial Inflation Per Note							
	6.05% due 3/1/2034 (CUSIP: 694308GE1)	5.80% due 3/1/2037 (CUSIP: 694308GJ0)	6.35% due 2/15/2038 (CUSIP: 694308GM3)	6.25% due 3/1/2039 (CUSIP: 694308GQ4)	5.40% due 1/15/2040 (CUSIP: 694308GS0)	3.5% due 10/1/2020 (CUSIP: 694308GT8)	4.25% due 5/15/2021 (CUSIP: 694308GV3)	3.25% due 9/15/2021 (CUSIP: 694308GW1)
April 29, 2015 – October 12, 2017	\$16.91	\$17.72	\$17.48	\$16.94	\$14.92	\$9.26	\$9.09	\$11.70
October 13, 2017 - December 20, 2017	\$15.35	\$16.84	\$17.48	\$16.94	\$14.92	\$9.26	\$9.09	\$11.70
December 21, 2017 - November 8, 2018	\$14.58	\$15.76	\$15.98	\$16.94	\$9.85	\$9.26	\$8.55	\$11.70
November 9, 2018 - November 12, 2018	\$13.05	\$12.72	\$15.98	\$16.94	\$9.85	\$9.26	\$8.48	\$11.63
November 13, 2018	\$3.29	\$3.21	\$5.62	\$10.31	-\$1.90	\$7.76	\$7.15	\$7.98
November 14, 2018	-\$3.05	-\$3.71	-\$3.58	-\$5.58	-\$2.81	\$1.22	-\$1.45	-\$0.35
November 15, 2018	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

¹ Note inflation is presented in terms of percentage of par value (\$1,000). To find the raw, nominal cash value, multiply the given inflation by 10 (1% of \$1,000).

Transaction Date	Artificial Inflation Per Note							
	4.5% due 12/15/2041 (CUSIP: 694308GY7)	4.45% due 4/15/2042 (CUSIP: 694308GZ4)	3.75% due 8/15/2024 (CUSIP: 694308HA8)	2.45% due 8/15/2022 (CUSIP: 694308HB6)	3.25% due 6/15/2023 (CUSIP: 694308HC4)	4.60% due 6/15/2043 (CUSIP: 694308HD2)	3.85% due 11/15/2023 (CUSIP: 694308HE0)	5.125% due 11/15/2043 (CUSIP: 694308HF7)
April 29, 2015 – October 12, 2017	\$12.57	\$14.54	\$5.52	\$10.68	\$12.24	\$13.09	\$12.14	\$19.55
October 13, 2017 - December 20, 2017	\$12.57	\$13.38	\$5.52	\$10.27	\$11.59	\$10.34	\$12.14	\$17.23
December 21, 2017 - November 8, 2018	\$12.30	\$13.38	\$5.52	\$9.24	\$11.30	\$10.34	\$12.14	\$17.23
November 9, 2018 - November 12, 2018	\$12.30	\$13.38	\$5.52	\$9.24	\$11.30	\$10.34	\$12.14	\$16.00
November 13, 2018	\$4.61	\$8.07	-\$3.26	\$0.45	\$8.26	\$5.84	\$8.00	\$3.88
November 14, 2018	-\$3.68	-\$0.70	-\$1.46	-\$1.42	-\$1.07	-\$3.86	-\$1.63	-\$2.53
November 15, 2018	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Transaction Date	Artificial Inflation Per Note							
	3.75% due 2/15/2024 (CUSIP: 694308HG5)	4.75% due 2/15/2044 (CUSIP: 694308HH3)	3.40% due 8/15/2024 (CUSIP: 694308HK6)	4.30% due 3/15/2045 (CUSIP: 694308HL4)	3.50% due 6/15/2025 (CUSIP: 694308HM2)	4.25% due 3/15/2046 (CUSIP: 694308HN0)	2.95% due 3/1/2026 (CUSIP: 694308HP5)	4.00% due 12/1/2046 (CUSIP: 694308HR1)
April 29, 2015 – October 12, 2017	\$11.96	\$14.06	\$11.45	\$12.61	\$13.15	\$11.28	\$8.40	\$8.98
October 13, 2017 - December 20, 2017	\$11.41	\$13.29	\$10.89	\$9.53	\$12.62	\$7.97	\$7.42	\$6.45
December 21, 2017 - November 8, 2018	\$11.01	\$12.87	\$10.89	\$9.14	\$11.68	\$7.97	\$7.42	\$5.04
November 9, 2018 - November 12, 2018	\$11.01	\$12.66	\$10.89	\$8.02	\$11.68	\$7.56	\$6.15	\$5.04
November 13, 2018	\$9.13	\$5.02	\$8.80	-\$0.15	\$9.19	-\$0.67	\$0.93	-\$5.08
November 14, 2018	-\$4.13	-\$2.29	-\$3.10	-\$4.21	\$1.13	-\$4.72	-\$1.74	-\$4.17
November 15, 2018	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Transaction Date	Artificial Inflation Per Note				
	3.30% due 3/15/2027 (CUSIP: 694308HS9)	3.30% due 12/1/2027 (CUSIP: 694308HW0)	3.95% due 12/1/2047 (CUSIP: 694308HY6)	4.25% due 8/1/2023 (CUSIP: 694308HZ3 ²)	4.65% due 8/1/2028 (CUSIP: 694308JA6 ³)
April 29, 2015 – October 12, 2017	\$10.56	\$7.05	\$5.59	\$10.40	\$12.73
October 13, 2017 - December 20, 2017	\$10.16	\$7.05	\$5.59	\$10.40	\$12.73
December 21, 2017 - November 8, 2018	\$8.87	\$7.05	\$5.59	\$10.40	\$12.73
November 9, 2018 - November 12, 2018	\$8.87	\$7.05	\$4.57	\$10.40	\$11.93
November 13, 2018	\$3.37	-\$0.43	-\$3.95	\$10.40	\$3.41
November 14, 2018	-\$1.54	-\$2.34	-\$3.64	\$10.40	-\$1.59
November 15, 2018	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

² This note gets converted by PG&E into 694308JB4.

³ This note gets converted by PG&E into 694308JC2.

TABLE 6**PG&E Exchange Act Notes - Average Closing Prices⁴
November 15, 2018 – February 12, 2019**

Date	Average Closing Price Between November 15, 2018 and Date Shown									
	6.05% due 3/1/2034 (CUSIP: 694308GE1)	5.8% due 3/1/2037 (CUSIP: 694308GJ0)	6.35% due 2/15/2038 (CUSIP: 694308GM3)	6.25% due 3/1/2039 (CUSIP: 694308GQ4)	5.4% due 1/15/2040 (CUSIP: 694308GS0)	3.5% due 10/1/2020 (CUSIP: 694308GT8)	4.25% due 5/15/2021 (CUSIP: 694308GV3)	3.25% due 9/15/2021 (CUSIP: 694308GW1)	4.5% due 12/15/2041 (CUSIP: 694308GY7)	4.45% due 4/15/2042 (CUSIP: 694308GZ4)
11/15/2018	\$92.35	\$89.14	\$92.11	\$91.22	\$89.39	\$90.73	\$92.13	\$87.27	\$75.95	\$75.48
11/16/2018	\$94.97	\$91.52	\$94.55	\$94.30	\$89.86	\$93.03	\$93.95	\$89.81	\$76.92	\$79.30
11/19/2018	\$94.89	\$91.80	\$95.48	\$94.83	\$89.06	\$93.38	\$94.06	\$90.20	\$76.92	\$79.82
11/20/2018	\$95.02	\$91.91	\$95.14	\$95.18	\$88.55	\$93.69	\$94.14	\$90.37	\$77.50	\$80.13
11/21/2018	\$95.05	\$91.88	\$95.54	\$95.44	\$88.33	\$93.91	\$94.13	\$90.80	\$77.50	\$80.11
11/23/2018	\$94.90	\$91.88	\$95.85	\$95.44	\$87.94	\$94.02	\$94.32	\$90.66	\$77.50	\$80.11
11/26/2018	\$94.98	\$91.98	\$95.76	\$95.40	\$87.77	\$94.10	\$94.38	\$90.82	\$77.03	\$80.17
11/27/2018	\$95.03	\$92.07	\$95.70	\$95.40	\$87.87	\$94.21	\$94.37	\$90.93	\$77.31	\$80.17
11/28/2018	\$95.08	\$92.11	\$95.65	\$95.31	\$87.98	\$94.30	\$94.45	\$91.05	\$77.48	\$80.27
11/29/2018	\$95.12	\$92.24	\$95.78	\$95.31	\$88.11	\$94.42	\$94.50	\$91.13	\$77.77	\$80.44
11/30/2018	\$95.16	\$92.24	\$95.80	\$95.31	\$88.19	\$94.52	\$94.56	\$91.23	\$78.04	\$80.59
12/3/2018	\$95.24	\$92.34	\$95.78	\$95.31	\$88.19	\$94.61	\$94.64	\$91.39	\$78.24	\$80.59
12/4/2018	\$95.30	\$92.44	\$95.90	\$95.53	\$88.19	\$94.74	\$94.80	\$91.46	\$78.43	\$80.59
12/5/2018	\$95.30	\$92.44	\$95.90	\$95.53	\$88.19	\$94.74	\$94.80	\$91.46	\$78.43	\$80.59
12/6/2018	\$95.32	\$92.44	\$95.93	\$95.36	\$88.33	\$94.83	\$94.90	\$91.56	\$78.43	\$80.76
12/7/2018	\$95.36	\$92.47	\$96.07	\$95.43	\$88.38	\$94.92	\$95.06	\$91.84	\$78.43	\$80.82
12/10/2018	\$95.40	\$92.48	\$96.21	\$95.43	\$88.46	\$94.98	\$95.15	\$91.93	\$78.43	\$80.82

⁴ Note prices are presented in terms of percentage of par value (\$1,000). To find the raw, nominal cash price, multiply the given price by 10 (1% of \$1,000).

Date	Average Closing Price Between November 15, 2018 and Date Shown									
	6.05% due 3/1/2034 (CUSIP: 694308GE1)	5.8% due 3/1/2037 (CUSIP: 694308GJ0)	6.35% due 2/15/2038 (CUSIP: 694308GM3)	6.25% due 3/1/2039 (CUSIP: 694308GQ4)	5 4% due 1/15/2040 (CUSIP: 694308GS0)	3.5% due 10/1/2020 (CUSIP: 694308GT8)	4 25% due 5/15/2021 (CUSIP: 694308GV3)	3.25% due 9/15/2021 (CUSIP: 694308GW1)	4 5% due 12/15/2041 (CUSIP: 694308GY7)	4 45% due 4/15/2042 (CUSIP: 694308GZ4)
12/11/2018	\$95.44	\$92.50	\$96.31	\$95.51	\$88.54	\$95.03	\$95.25	\$91.99	\$78.43	\$80.96
12/12/2018	\$95.49	\$92.50	\$96.31	\$95.51	\$88.54	\$95.07	\$95.29	\$92.06	\$78.43	\$81.11
12/13/2018	\$95.56	\$92.57	\$96.36	\$95.54	\$88.67	\$95.12	\$95.33	\$92.17	\$78.43	\$81.18
12/14/2018	\$95.63	\$92.57	\$96.52	\$95.56	\$88.78	\$95.20	\$95.38	\$92.25	\$78.70	\$81.28
12/17/2018	\$95.63	\$92.66	\$96.52	\$95.56	\$88.84	\$95.25	\$95.44	\$92.32	\$78.83	\$81.28
12/18/2018	\$95.62	\$92.66	\$96.57	\$95.57	\$88.91	\$95.29	\$95.50	\$92.38	\$78.93	\$81.31
12/19/2018	\$95.59	\$92.65	\$96.61	\$95.61	\$88.92	\$95.36	\$95.56	\$92.44	\$79.00	\$81.30
12/20/2018	\$95.51	\$92.65	\$96.67	\$95.61	\$88.91	\$95.39	\$95.64	\$92.48	\$79.00	\$81.30
12/21/2018	\$95.42	\$92.65	\$96.67	\$95.44	\$88.89	\$95.42	\$95.70	\$92.53	\$79.00	\$81.30
12/24/2018	\$95.32	\$92.65	\$96.67	\$95.44	\$88.89	\$95.46	\$95.79	\$92.55	\$79.00	\$81.30
12/26/2018	\$95.26	\$92.73	\$96.67	\$95.25	\$88.89	\$95.48	\$95.84	\$92.61	\$78.86	\$81.30
12/27/2018	\$95.16	\$92.68	\$96.60	\$95.08	\$88.88	\$95.51	\$95.88	\$92.60	\$78.86	\$81.10
12/28/2018	\$95.10	\$92.68	\$96.54	\$94.93	\$88.80	\$95.53	\$95.93	\$92.62	\$78.86	\$81.01
12/31/2018	\$95.03	\$92.68	\$96.54	\$94.93	\$88.77	\$95.55	\$95.93	\$92.63	\$78.86	\$80.95
1/2/2019	\$94.98	\$92.60	\$96.54	\$94.93	\$88.77	\$95.56	\$95.96	\$92.62	\$78.86	\$80.95
1/3/2019	\$94.93	\$92.53	\$96.48	\$94.80	\$88.75	\$95.57	\$96.00	\$92.65	\$78.86	\$80.92
1/4/2019	\$94.91	\$92.47	\$96.42	\$94.72	\$88.69	\$95.60	\$96.03	\$92.69	\$78.86	\$80.92
1/7/2019	\$94.82	\$92.32	\$96.24	\$94.52	\$88.60	\$95.52	\$95.89	\$92.50	\$78.61	\$80.84
1/8/2019	\$94.63	\$92.05	\$95.96	\$94.24	\$88.38	\$95.35	\$95.65	\$92.27	\$78.51	\$80.67
1/9/2019	\$94.49	\$91.84	\$95.71	\$94.01	\$88.22	\$95.23	\$95.50	\$92.15	\$78.50	\$80.56
1/10/2019	\$94.30	\$91.65	\$95.46	\$93.81	\$88.10	\$95.10	\$95.36	\$92.05	\$78.46	\$80.38
1/11/2019	\$94.12	\$91.41	\$95.20	\$93.55	\$87.94	\$94.96	\$95.19	\$91.91	\$78.43	\$80.23
1/14/2019	\$93.84	\$91.06	\$94.80	\$93.12	\$87.71	\$94.64	\$94.82	\$91.46	\$78.32	\$80.10
1/15/2019	\$93.45	\$90.58	\$94.29	\$92.57	\$87.37	\$94.20	\$94.37	\$91.12	\$78.13	\$79.87
1/16/2019	\$93.16	\$90.23	\$93.91	\$92.17	\$87.14	\$93.84	\$93.98	\$90.83	\$78.00	\$79.73
1/17/2019	\$92.89	\$89.91	\$93.58	\$91.82	\$86.95	\$93.51	\$93.63	\$90.54	\$77.94	\$79.62
1/18/2019	\$92.68	\$89.63	\$93.29	\$91.54	\$86.76	\$93.22	\$93.32	\$90.26	\$77.88	\$79.54

Date	Average Closing Price Between November 15, 2018 and Date Shown									
	6.05% due 3/1/2034 (CUSIP: 694308GE1)	5.8% due 3/1/2037 (CUSIP: 694308GJ0)	6.35% due 2/15/2038 (CUSIP: 694308GM3)	6.25% due 3/1/2039 (CUSIP: 694308GQ4)	5.4% due 1/15/2040 (CUSIP: 694308GS0)	3.5% due 10/1/2020 (CUSIP: 694308GT8)	4.25% due 5/15/2021 (CUSIP: 694308GV3)	3.25% due 9/15/2021 (CUSIP: 694308GW1)	4.5% due 12/15/2041 (CUSIP: 694308GY7)	4.45% due 4/15/2042 (CUSIP: 694308GZ4)
1/22/2019	\$92.48	\$89.40	\$93.04	\$91.31	\$86.61	\$92.94	\$93.02	\$90.02	\$77.79	\$79.47
1/23/2019	\$92.25	\$89.15	\$92.80	\$91.04	\$86.42	\$92.66	\$92.73	\$89.75	\$77.70	\$79.47
1/24/2019	\$92.13	\$89.05	\$92.69	\$90.93	\$86.26	\$92.46	\$92.51	\$89.65	\$77.70	\$79.38
1/25/2019	\$92.03	\$88.95	\$92.57	\$90.81	\$86.20	\$92.32	\$92.34	\$89.50	\$77.66	\$79.30
1/28/2019	\$91.91	\$88.85	\$92.43	\$90.81	\$86.12	\$92.16	\$92.15	\$89.34	\$77.66	\$79.22
1/29/2019	\$91.82	\$88.77	\$92.32	\$90.74	\$86.05	\$91.99	\$91.96	\$89.20	\$77.60	\$79.14
1/30/2019	\$91.74	\$88.69	\$92.23	\$90.66	\$86.01	\$91.83	\$91.80	\$89.10	\$77.60	\$79.09
1/31/2019	\$91.66	\$88.61	\$92.14	\$90.59	\$85.97	\$91.68	\$91.65	\$88.99	\$77.56	\$79.04
2/1/2019	\$91.58	\$88.53	\$92.14	\$90.51	\$85.92	\$91.53	\$91.51	\$88.90	\$77.52	\$79.04
2/4/2019	\$91.50	\$88.45	\$92.05	\$90.45	\$85.88	\$91.40	\$91.37	\$88.80	\$77.52	\$79.00
2/5/2019	\$91.43	\$88.38	\$91.98	\$90.36	\$85.84	\$91.25	\$91.23	\$88.68	\$77.49	\$79.00
2/6/2019	\$91.35	\$88.32	\$91.90	\$90.30	\$85.79	\$91.11	\$91.09	\$88.56	\$77.49	\$78.96
2/7/2019	\$91.28	\$88.25	\$91.83	\$90.24	\$85.75	\$90.97	\$90.94	\$88.45	\$77.48	\$78.96
2/8/2019	\$91.22	\$88.20	\$91.77	\$90.20	\$85.72	\$90.84	\$90.83	\$88.37	\$77.46	\$78.96
2/11/2019	\$91.17	\$88.16	\$91.74	\$90.18	\$85.71	\$90.72	\$90.71	\$88.29	\$77.46	\$78.95
2/12/2019	\$91.14	\$88.13	\$91.71	\$90.18	\$85.70	\$90.62	\$90.61	\$88.20	\$77.49	\$78.94

Date	Average Closing Price Between November 15, 2018 and Date Shown									
	3.75% due 8/15/2024 (CUSIP: 694308HA8)	2.45% due 8/15/2022 (CUSIP: 694308HB6)	3.25% due 6/15/2023 (CUSIP: 694308HC4)	4.6% due 6/15/2043 (CUSIP: 694308HD2)	3.85% due 11/15/2023 (CUSIP: 694308HE0)	5.125% due 11/15/2043 (CUSIP: 694308HF7)	3.75% due 2/15/2024 (CUSIP: 694308HG5)	4.75% due 2/15/2044 (CUSIP: 694308HH3)	3.4% due 8/15/2024 (CUSIP: 694308HK6)	4.3% due 3/15/2045 (CUSIP: 694308HL4)
11/15/2018	\$74.89	\$84.98	\$84.39	\$78.93	\$86.58	\$80.74	\$85.95	\$79.02	\$83.91	\$77.30
11/16/2018	\$76.15	\$86.56	\$87.30	\$78.93	\$89.06	\$82.76	\$87.71	\$81.13	\$86.73	\$78.72
11/19/2018	\$75.78	\$86.84	\$87.43	\$79.13	\$89.18	\$82.76	\$87.72	\$81.05	\$86.37	\$78.32
11/20/2018	\$75.78	\$86.82	\$87.79	\$79.13	\$89.38	\$83.64	\$87.32	\$81.38	\$86.43	\$78.15
11/21/2018	\$75.78	\$86.73	\$88.00	\$79.59	\$89.19	\$84.10	\$87.49	\$81.59	\$86.48	\$78.05
11/23/2018	\$75.78	\$86.67	\$88.00	\$79.94	\$89.19	\$84.10	\$87.63	\$81.78	\$86.57	\$78.05
11/26/2018	\$75.34	\$86.67	\$88.15	\$80.04	\$89.38	\$84.10	\$87.62	\$81.82	\$86.51	\$77.99
11/27/2018	\$75.24	\$86.75	\$88.22	\$80.17	\$89.46	\$84.40	\$87.84	\$81.93	\$86.57	\$78.06
11/28/2018	\$75.07	\$86.96	\$88.24	\$80.43	\$89.52	\$84.72	\$88.00	\$82.07	\$86.67	\$78.08
11/29/2018	\$75.07	\$87.10	\$88.17	\$80.43	\$89.59	\$84.97	\$88.05	\$82.21	\$86.68	\$78.08
11/30/2018	\$74.99	\$87.27	\$88.21	\$80.60	\$89.71	\$85.14	\$88.07	\$82.32	\$86.79	\$78.16
12/3/2018	\$74.96	\$87.44	\$88.29	\$80.60	\$89.81	\$85.37	\$88.21	\$82.46	\$86.87	\$78.25
12/4/2018	\$74.93	\$87.57	\$88.39	\$80.88	\$89.92	\$85.37	\$88.37	\$82.72	\$86.93	\$78.33
12/5/2018	\$74.93	\$87.57	\$88.39	\$80.88	\$89.92	\$85.37	\$88.37	\$82.72	\$86.93	\$78.33
12/6/2018	\$74.93	\$87.65	\$88.45	\$81.00	\$90.08	\$85.56	\$88.49	\$82.88	\$86.96	\$78.27
12/7/2018	\$74.93	\$87.75	\$88.57	\$81.00	\$90.18	\$85.69	\$88.57	\$82.98	\$87.10	\$78.27
12/10/2018	\$74.93	\$87.81	\$88.58	\$81.00	\$90.27	\$85.69	\$88.63	\$83.00	\$87.10	\$78.39
12/11/2018	\$74.93	\$87.85	\$88.66	\$81.18	\$90.39	\$85.69	\$88.73	\$83.10	\$87.15	\$78.48
12/12/2018	\$74.93	\$87.98	\$88.78	\$81.32	\$90.46	\$85.88	\$88.86	\$83.33	\$87.15	\$78.58
12/13/2018	\$75.08	\$88.08	\$88.87	\$81.47	\$90.57	\$86.08	\$88.96	\$83.33	\$87.24	\$78.58
12/14/2018	\$75.10	\$88.19	\$88.98	\$81.55	\$90.66	\$86.25	\$89.11	\$83.45	\$87.30	\$78.69
12/17/2018	\$75.10	\$88.19	\$88.98	\$81.55	\$90.73	\$86.25	\$89.18	\$83.47	\$87.26	\$78.73
12/18/2018	\$75.10	\$88.26	\$89.04	\$81.55	\$90.78	\$86.35	\$89.23	\$83.50	\$87.32	\$78.79
12/19/2018	\$75.10	\$88.34	\$89.09	\$81.55	\$90.78	\$86.35	\$89.28	\$83.58	\$87.33	\$78.79
12/20/2018	\$75.10	\$88.37	\$89.10	\$81.55	\$90.81	\$86.35	\$89.33	\$83.56	\$87.33	\$78.79
12/21/2018	\$75.10	\$88.40	\$89.13	\$81.55	\$90.80	\$86.35	\$89.30	\$83.56	\$87.32	\$78.79
12/24/2018	\$75.10	\$88.40	\$89.13	\$81.55	\$90.80	\$86.35	\$89.33	\$83.56	\$87.32	\$78.79

Date	Average Closing Price Between November 15, 2018 and Date Shown									
	3.75% due 8/15/2024 (CUSIP: 694308HA8)	2.45% due 8/15/2022 (CUSIP: 694308HB6)	3.25% due 6/15/2023 (CUSIP: 694308HC4)	4.6% due 6/15/2043 (CUSIP: 694308HD2)	3.85% due 11/15/2023 (CUSIP: 694308HE0)	5.125% due 11/15/2043 (CUSIP: 694308HF7)	3.75% due 2/15/2024 (CUSIP: 694308HG5)	4.75% due 2/15/2044 (CUSIP: 694308HH3)	3.4% due 8/15/2024 (CUSIP: 694308HK6)	4.3% due 3/15/2045 (CUSIP: 694308HL4)
12/26/2018	\$75.10	\$88.42	\$89.14	\$81.55	\$90.82	\$86.35	\$89.31	\$83.56	\$87.27	\$78.79
12/27/2018	\$75.10	\$88.42	\$89.14	\$81.55	\$90.85	\$86.35	\$89.28	\$83.50	\$87.22	\$78.79
12/28/2018	\$75.05	\$88.44	\$89.14	\$81.50	\$90.88	\$86.35	\$89.28	\$83.46	\$87.21	\$78.79
12/31/2018	\$75.05	\$88.44	\$89.15	\$81.50	\$90.90	\$86.35	\$89.28	\$83.46	\$87.20	\$78.77
1/2/2019	\$75.05	\$88.44	\$89.17	\$81.44	\$90.93	\$86.30	\$89.31	\$83.41	\$87.19	\$78.77
1/3/2019	\$74.98	\$88.45	\$89.18	\$81.39	\$90.96	\$86.22	\$89.29	\$83.38	\$87.18	\$78.76
1/4/2019	\$74.94	\$88.45	\$89.18	\$81.39	\$90.99	\$86.22	\$89.29	\$83.34	\$87.18	\$78.75
1/7/2019	\$74.78	\$88.31	\$89.04	\$81.29	\$90.85	\$86.11	\$89.19	\$83.26	\$87.11	\$78.67
1/8/2019	\$74.72	\$88.14	\$88.85	\$81.08	\$90.62	\$85.94	\$89.01	\$83.10	\$86.91	\$78.57
1/9/2019	\$74.75	\$88.03	\$88.73	\$80.93	\$90.45	\$85.82	\$88.88	\$83.00	\$86.83	\$78.51
1/10/2019	\$74.80	\$87.92	\$88.64	\$80.75	\$90.31	\$85.72	\$88.81	\$82.85	\$86.78	\$78.47
1/11/2019	\$74.83	\$87.80	\$88.53	\$80.64	\$90.17	\$85.53	\$88.69	\$82.71	\$86.67	\$78.39
1/14/2019	\$74.80	\$87.53	\$88.24	\$80.45	\$89.84	\$85.22	\$88.42	\$82.54	\$86.45	\$78.27
1/15/2019	\$74.65	\$87.18	\$87.84	\$80.14	\$89.42	\$84.80	\$88.06	\$82.29	\$86.12	\$78.09
1/16/2019	\$74.63	\$86.91	\$87.58	\$79.98	\$89.15	\$84.52	\$87.82	\$82.13	\$85.90	\$77.99
1/17/2019	\$74.62	\$86.66	\$87.34	\$79.84	\$88.88	\$84.28	\$87.60	\$81.99	\$85.72	\$77.91
1/18/2019	\$74.72	\$86.45	\$87.13	\$79.76	\$88.66	\$84.10	\$87.42	\$81.87	\$85.56	\$77.87
1/22/2019	\$74.80	\$86.27	\$86.94	\$79.67	\$88.45	\$83.95	\$87.25	\$81.75	\$85.41	\$77.85
1/23/2019	\$74.83	\$86.07	\$86.75	\$79.55	\$88.22	\$83.77	\$87.06	\$81.63	\$85.25	\$77.79
1/24/2019	\$74.99	\$85.87	\$86.53	\$79.42	\$88.01	\$83.70	\$86.90	\$81.57	\$85.11	\$77.70
1/25/2019	\$75.01	\$85.79	\$86.43	\$79.39	\$87.91	\$83.62	\$86.80	\$81.52	\$85.04	\$77.66
1/28/2019	\$74.96	\$85.68	\$86.32	\$79.33	\$87.77	\$83.52	\$86.68	\$81.52	\$84.94	\$77.60
1/29/2019	\$74.96	\$85.61	\$86.22	\$79.29	\$87.67	\$83.44	\$86.60	\$81.44	\$84.89	\$77.56
1/30/2019	\$74.96	\$85.55	\$86.15	\$79.26	\$87.57	\$83.40	\$86.54	\$81.38	\$84.85	\$77.54
1/31/2019	\$74.95	\$85.47	\$86.08	\$79.23	\$87.49	\$83.37	\$86.48	\$81.35	\$84.81	\$77.51
2/1/2019	\$74.95	\$85.41	\$86.01	\$79.21	\$87.40	\$83.34	\$86.42	\$81.31	\$84.78	\$77.48
2/4/2019	\$74.95	\$85.32	\$85.92	\$79.20	\$87.31	\$83.26	\$86.36	\$81.28	\$84.76	\$77.48

Date	Average Closing Price Between November 15, 2018 and Date Shown									
	3.75% due 8/15/2024 (CUSIP: 694308HA8)	2.45% due 8/15/2022 (CUSIP: 694308HB6)	3.25% due 6/15/2023 (CUSIP: 694308HC4)	4.6% due 6/15/2043 (CUSIP: 694308HD2)	3.85% due 11/15/2023 (CUSIP: 694308HE0)	5.125% due 11/15/2043 (CUSIP: 694308HF7)	3.75% due 2/15/2024 (CUSIP: 694308HG5)	4.75% due 2/15/2044 (CUSIP: 694308HH3)	3.4% due 8/15/2024 (CUSIP: 694308HK6)	4.3% due 3/15/2045 (CUSIP: 694308HL4)
2/5/2019	\$74.95	\$85.25	\$85.85	\$79.17	\$87.23	\$83.20	\$86.30	\$81.25	\$84.71	\$77.43
2/6/2019	\$74.94	\$85.17	\$85.73	\$79.15	\$87.14	\$83.20	\$86.24	\$81.22	\$84.64	\$77.41
2/7/2019	\$74.94	\$85.10	\$85.66	\$79.15	\$87.06	\$83.16	\$86.17	\$81.19	\$84.59	\$77.40
2/8/2019	\$74.96	\$85.01	\$85.66	\$79.13	\$86.99	\$83.15	\$86.12	\$81.18	\$84.56	\$77.40
2/11/2019	\$74.96	\$84.96	\$85.58	\$79.13	\$86.92	\$83.15	\$86.08	\$81.19	\$84.54	\$77.40
2/12/2019	\$74.96	\$84.93	\$85.52	\$79.13	\$86.86	\$83.15	\$86.04	\$81.21	\$84.52	\$77.35

Date	Average Closing Price Between November 15, 2018 and Date Shown									
	3.5% due 6/15/2025 (CUSIP: 694308HM2)	4.25% due 3/15/2046 (CUSIP: 694308HN0)	2.95% due 3/1/2026 (CUSIP: 694308HP5)	4.00% due 12/1/2046 (CUSIP: 694308HR1)	3.30% due 3/15/2027 (CUSIP: 694308HS9)	3.30% due 12/1/2027 (CUSIP: 694308HW0)	3.95% due 12/1/2047 (CUSIP: 694308HY6)	4.25% due 8/1/2023 (CUSIP: 694308HZ3)	4.65% due 8/1/2028 (CUSIP: 694308JA6)	
11/15/2018	\$81.26	\$77.11	\$81.50	\$76.65	\$80.87	\$81.52	\$75.68	\$89.06	\$85.94	
11/16/2018	\$84.99	\$77.29	\$84.06	\$77.35	\$83.80	\$84.02	\$76.74	\$91.68	\$88.76	
11/19/2018	\$85.11	\$76.88	\$83.85	\$76.37	\$84.03	\$84.01	\$76.18	\$91.49	\$88.76	
11/20/2018	\$85.26	\$77.00	\$83.89	\$76.16	\$84.28	\$84.11	\$76.09	\$91.67	\$89.16	
11/21/2018	\$85.33	\$76.98	\$83.77	\$76.06	\$84.05	\$84.11	\$76.06	\$91.67	\$89.16	
11/23/2018	\$85.36	\$76.98	\$83.70	\$76.06	\$84.30	\$84.11	\$76.06	\$91.67	\$89.16	
11/26/2018	\$85.57	\$77.09	\$83.56	\$76.01	\$84.24	\$83.82	\$76.03	\$91.67	\$89.16	
11/27/2018	\$85.67	\$77.09	\$83.43	\$75.95	\$84.24	\$83.53	\$75.96	\$91.74	\$89.16	
11/28/2018	\$85.74	\$77.09	\$83.34	\$75.89	\$84.04	\$83.35	\$75.89	\$91.79	\$89.30	
11/29/2018	\$85.72	\$77.14	\$83.29	\$75.85	\$83.88	\$83.27	\$75.86	\$91.84	\$89.39	
11/30/2018	\$85.80	\$77.23	\$83.25	\$75.88	\$83.84	\$83.27	\$75.90	\$91.95	\$89.51	
12/3/2018	\$85.93	\$77.35	\$83.19	\$75.94	\$83.78	\$83.28	\$75.96	\$92.11	\$89.54	
12/4/2018	\$86.00	\$77.41	\$83.22	\$76.04	\$83.78	\$83.30	\$76.03	\$92.23	\$89.54	
12/5/2018	\$86.00	\$77.41	\$83.22	\$76.04	\$83.78	\$83.30	\$76.03	\$92.23	\$89.54	
12/6/2018	\$86.06	\$77.41	\$83.21	\$76.04	\$83.83	\$83.28	\$76.07	\$92.30	\$89.54	

Date	Average Closing Price Between November 15, 2018 and Date Shown								
	3.5% due 6/15/2025 (CUSIP: 694308HM2)	4.25% due 3/15/2046 (CUSIP: 694308HN0)	2.95% due 3/1/2026 (CUSIP: 694308HP5)	4.00% due 12/1/2046 (CUSIP: 694308HR1)	3.30% due 3/15/2027 (CUSIP: 694308HS9)	3.30% due 12/1/2027 (CUSIP: 694308HW0)	3.95% due 12/1/2047 (CUSIP: 694308HY6)	4.25% due 8/1/2023 (CUSIP: 694308HZ3)	4.65% due 8/1/2028 (CUSIP: 694308JA6)
12/7/2018	\$86.18	\$77.46	\$83.26	\$76.08	\$83.83	\$83.28	\$76.11	\$92.39	\$89.50
12/10/2018	\$86.29	\$77.46	\$83.28	\$76.19	\$83.79	\$83.26	\$76.11	\$92.39	\$89.50
12/11/2018	\$86.36	\$77.60	\$83.30	\$76.23	\$83.78	\$83.25	\$76.17	\$92.48	\$89.50
12/12/2018	\$86.41	\$77.60	\$83.30	\$76.31	\$83.83	\$83.30	\$76.17	\$92.57	\$89.50
12/13/2018	\$86.49	\$77.76	\$83.30	\$76.38	\$83.79	\$83.34	\$76.29	\$92.64	\$89.66
12/14/2018	\$86.57	\$77.95	\$83.33	\$76.45	\$83.87	\$83.38	\$76.39	\$92.70	\$89.66
12/17/2018	\$86.64	\$78.01	\$83.33	\$76.49	\$83.87	\$83.40	\$76.43	\$92.75	\$89.71
12/18/2018	\$86.69	\$78.07	\$83.32	\$76.49	\$83.83	\$83.39	\$76.45	\$92.79	\$89.71
12/19/2018	\$86.77	\$78.09	\$83.32	\$76.49	\$83.83	\$83.39	\$76.45	\$92.80	\$89.72
12/20/2018	\$86.76	\$78.09	\$83.28	\$76.53	\$83.79	\$83.39	\$76.45	\$92.80	\$89.72
12/21/2018	\$86.77	\$78.10	\$83.28	\$76.53	\$83.69	\$83.39	\$76.45	\$92.80	\$89.72
12/24/2018	\$86.78	\$78.10	\$83.28	\$76.53	\$83.69	\$83.39	\$76.45	\$92.80	\$89.72
12/26/2018	\$86.78	\$78.10	\$83.20	\$76.50	\$83.69	\$83.39	\$76.45	\$92.80	\$89.72
12/27/2018	\$86.77	\$78.10	\$83.13	\$76.45	\$83.56	\$83.39	\$76.45	\$92.80	\$89.84
12/28/2018	\$86.74	\$78.10	\$83.09	\$76.43	\$83.56	\$83.34	\$76.41	\$92.80	\$89.84
12/31/2018	\$86.71	\$78.10	\$83.05	\$76.39	\$83.56	\$83.30	\$76.39	\$92.80	\$89.84
1/2/2019	\$86.69	\$78.03	\$83.05	\$76.39	\$83.56	\$83.30	\$76.37	\$92.80	\$89.84
1/3/2019	\$86.67	\$78.10	\$83.03	\$76.41	\$83.53	\$83.25	\$76.37	\$92.80	\$89.80
1/4/2019	\$86.68	\$78.10	\$83.02	\$76.41	\$83.53	\$83.21	\$76.37	\$92.79	\$89.81
1/7/2019	\$86.62	\$78.06	\$82.93	\$76.38	\$83.42	\$83.12	\$76.35	\$92.52	\$89.58
1/8/2019	\$86.45	\$77.96	\$82.76	\$76.35	\$83.23	\$82.95	\$76.30	\$92.18	\$89.07
1/9/2019	\$86.36	\$77.90	\$82.69	\$76.34	\$83.13	\$82.89	\$76.28	\$91.91	\$88.80
1/10/2019	\$86.24	\$77.77	\$82.64	\$76.31	\$83.05	\$82.79	\$76.26	\$91.63	\$88.53
1/11/2019	\$86.16	\$77.71	\$82.57	\$76.30	\$82.93	\$82.71	\$76.24	\$91.41	\$88.31
1/14/2019	\$85.94	\$77.63	\$82.44	\$76.26	\$82.69	\$82.53	\$76.20	\$90.98	\$87.98
1/15/2019	\$85.64	\$77.46	\$82.21	\$76.14	\$82.39	\$82.25	\$76.09	\$90.38	\$87.42
1/16/2019	\$85.44	\$77.37	\$82.06	\$76.11	\$82.20	\$82.09	\$76.04	\$89.99	\$87.00

Date	Average Closing Price Between November 15, 2018 and Date Shown								
	3.5% due 6/15/2025 (CUSIP: 694308HM2)	4.25% due 3/15/2046 (CUSIP: 694308HN0)	2.95% due 3/1/2026 (CUSIP: 694308HP5)	4.00% due 12/1/2046 (CUSIP: 694308HR1)	3.30% due 3/15/2027 (CUSIP: 694308HS9)	3.30% due 12/1/2027 (CUSIP: 694308HW0)	3.95% due 12/1/2047 (CUSIP: 694308HY6)	4.25% due 8/1/2023 (CUSIP: 694308HZ3)	4.65% due 8/1/2028 (CUSIP: 694308JA6)
1/17/2019	\$85.25	\$77.33	\$81.92	\$76.09	\$82.04	\$81.93	\$76.02	\$89.65	\$86.64
1/18/2019	\$85.09	\$77.31	\$81.81	\$76.10	\$81.91	\$81.82	\$76.00	\$89.35	\$86.38
1/22/2019	\$84.95	\$77.29	\$81.73	\$76.10	\$81.80	\$81.72	\$76.00	\$89.06	\$86.14
1/23/2019	\$84.80	\$77.23	\$81.64	\$76.08	\$81.67	\$81.60	\$75.98	\$88.78	\$85.92
1/24/2019	\$84.65	\$77.19	\$81.53	\$76.08	\$81.55	\$81.49	\$75.94	\$88.61	\$85.92
1/25/2019	\$84.57	\$77.16	\$81.51	\$76.07	\$81.52	\$81.48	\$75.94	\$88.47	\$85.77
1/28/2019	\$84.49	\$77.13	\$81.46	\$76.08	\$81.47	\$81.43	\$75.92	\$88.33	\$85.65
1/29/2019	\$84.43	\$77.08	\$81.42	\$76.06	\$81.43	\$81.39	\$75.89	\$88.19	\$85.58
1/30/2019	\$84.37	\$77.05	\$81.39	\$76.05	\$81.40	\$81.36	\$75.89	\$88.08	\$85.50
1/31/2019	\$84.32	\$77.02	\$81.35	\$76.03	\$81.37	\$81.33	\$75.87	\$87.98	\$85.43
2/1/2019	\$84.27	\$76.99	\$81.32	\$76.02	\$81.33	\$81.33	\$75.87	\$87.98	\$85.34
2/4/2019	\$84.21	\$76.99	\$81.30	\$76.02	\$81.30	\$81.29	\$75.85	\$87.89	\$85.34
2/5/2019	\$84.14	\$76.97	\$81.26	\$76.02	\$81.28	\$81.26	\$75.84	\$87.79	\$85.24
2/6/2019	\$84.08	\$76.95	\$81.23	\$76.01	\$81.25	\$81.24	\$75.83	\$87.71	\$85.17
2/7/2019	\$84.02	\$76.94	\$81.19	\$76.01	\$81.18	\$81.21	\$75.81	\$87.62	\$85.11
2/8/2019	\$83.97	\$76.92	\$81.16	\$76.01	\$81.18	\$81.19	\$75.81	\$87.54	\$85.11
2/11/2019	\$83.97	\$76.92	\$81.13	\$76.01	\$81.18	\$81.18	\$75.81	\$87.54	\$85.11
2/12/2019	\$83.92	\$76.92	\$81.11	\$76.02	\$81.16	\$81.17	\$75.82	\$87.54	\$85.11

TABLE 7

**PG&E Exchange-Traded Call Options
Artificial Inflation Per Share and Holding Values for Plan of Allocation**

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
10/20/17	\$60.00	\$8.26	\$4.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
10/20/17	\$65.00	\$4.04	\$0.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
10/20/17	\$70.00	\$0.15	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11/17/17	\$60.00	\$7.42	\$3.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11/17/17	\$65.00	\$3.86	\$1.21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11/17/17	\$70.00	\$0.57	\$0.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/15/17	\$60.00	\$7.32	\$3.37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/15/17	\$65.00	\$3.83	\$1.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/15/17	\$70.00	\$0.90	\$0.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$52.00	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$53.50	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$57.00	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$49.50	\$0.00	\$0.00	\$0.92	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$50.00	\$0.00	\$0.00	\$1.16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$50.50	\$0.00	\$0.00	\$0.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$52.50	\$0.00	\$0.00	\$0.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$55.00	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$56.00	\$0.00	\$0.00	\$0.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$57.50	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
12/29/17	\$58.00	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$53.50	\$0.00	\$0.00	\$0.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$54.00	\$0.00	\$0.00	\$0.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$57.50	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/12/18	\$56.00	\$0.00	\$0.00	\$0.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$45.00	\$0.00	\$0.00	\$3.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$47.50	\$0.00	\$0.00	\$2.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$50.00	\$0.00	\$0.00	\$1.09	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$51.00	\$0.00	\$0.00	\$0.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$52.00	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$51.50	\$0.00	\$0.00	\$0.46	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$52.00	\$0.00	\$0.00	\$0.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$47.50	\$0.00	\$0.00	\$2.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$50.00	\$0.00	\$0.00	\$1.26	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$52.50	\$0.00	\$0.00	\$0.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$35.00	\$16.88	\$13.23	\$6.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$40.00	\$15.34	\$11.04	\$4.99	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$45.00	\$13.76	\$9.76	\$3.22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$47.50	\$0.00	\$0.00	\$2.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$50.00	\$11.72	\$7.97	\$1.43	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$52.50	\$0.00	\$0.00	\$0.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$55.00	\$9.35	\$6.20	\$0.29	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$60.00	\$7.04	\$3.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$65.00	\$4.10	\$1.65	\$0.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$70.00	\$1.54	\$0.39	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$75.00	\$0.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
6/1/18	\$42.00	\$0.00	\$0.00	\$0.00	\$3.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$42.50	\$0.00	\$0.00	\$0.00	\$2.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$43.00	\$0.00	\$0.00	\$0.00	\$1.23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$43.50	\$0.00	\$0.00	\$0.00	\$1.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$44.00	\$0.00	\$0.00	\$0.00	\$1.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$44.50	\$0.00	\$0.00	\$0.00	\$1.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$45.50	\$0.00	\$0.00	\$0.00	\$0.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$46.50	\$0.00	\$0.00	\$0.00	\$0.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$48.50	\$0.00	\$0.00	\$0.00	\$0.43	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.43	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$49.50	\$0.00	\$0.00	\$0.00	\$0.43	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$50.50	\$0.00	\$0.00	\$0.00	\$0.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$51.50	\$0.00	\$0.00	\$0.00	\$0.23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$42.50	\$0.00	\$0.00	\$0.00	\$1.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$43.00	\$0.00	\$0.00	\$0.00	\$1.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$43.50	\$0.00	\$0.00	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$44.00	\$0.00	\$0.00	\$0.00	\$1.43	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$44.50	\$0.00	\$0.00	\$0.00	\$1.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$45.00	\$0.00	\$0.00	\$0.00	\$1.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$45.50	\$0.00	\$0.00	\$0.00	\$0.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
6/8/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$46.50	\$0.00	\$0.00	\$0.00	\$0.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$48.50	\$0.00	\$0.00	\$0.00	\$0.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$35.00	\$0.00	\$0.00	\$10.31	\$4.41	\$1.41	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$37.50	\$0.00	\$0.00	\$7.86	\$3.02	\$1.22	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$38.00	\$0.00	\$0.00	\$0.00	\$3.61	\$1.26	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$40.00	\$0.00	\$0.00	\$7.20	\$2.65	\$0.95	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$41.00	\$0.00	\$0.00	\$0.00	\$2.50	\$0.70	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$41.50	\$0.00	\$0.00	\$0.00	\$2.05	\$0.48	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$42.00	\$0.00	\$0.00	\$0.00	\$1.89	\$0.29	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$42.50	\$0.00	\$0.00	\$6.65	\$2.20	\$0.25	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$43.00	\$0.00	\$0.00	\$0.00	\$1.69	\$0.19	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$43.50	\$0.00	\$0.00	\$0.00	\$2.42	\$0.17	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$44.00	\$0.00	\$0.00	\$0.00	\$1.30	\$0.12	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$44.50	\$0.00	\$0.00	\$0.00	\$1.08	\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$45.00	\$0.00	\$0.00	\$3.98	\$0.93	\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$45.50	\$0.00	\$0.00	\$0.00	\$0.76	\$0.08	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.84	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$46.50	\$0.00	\$0.00	\$0.00	\$0.64	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.54	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$47.50	\$0.00	\$0.00	\$2.48	\$0.40	\$0.12	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.37	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
6/15/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.51	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$49.50	\$0.00	\$0.00	\$0.00	\$0.36	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$50.00	\$0.00	\$0.00	\$1.70	\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$51.00	\$0.00	\$0.00	\$0.00	\$0.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$52.50	\$0.00	\$0.00	\$1.02	\$0.25	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$55.00	\$0.00	\$0.00	\$0.72	\$0.17	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$57.50	\$0.00	\$0.00	\$0.29	\$0.17	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$60.00	\$0.00	\$0.00	\$0.61	\$0.49	\$0.19	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$62.50	\$0.00	\$0.00	\$0.23	\$0.23	\$0.08	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$65.00	\$0.00	\$0.00	\$0.08	\$0.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$70.00	\$0.00	\$0.00	\$0.28	\$0.28	\$0.21	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$42.00	\$0.00	\$0.00	\$0.00	\$1.81	\$0.54	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$42.50	\$0.00	\$0.00	\$0.00	\$2.31	\$0.43	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$43.00	\$0.00	\$0.00	\$0.00	\$1.63	\$0.33	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$43.50	\$0.00	\$0.00	\$0.00	\$1.49	\$0.29	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$44.00	\$0.00	\$0.00	\$0.00	\$1.24	\$0.31	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$44.50	\$0.00	\$0.00	\$0.00	\$1.23	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.96	\$0.29	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$45.50	\$0.00	\$0.00	\$0.00	\$0.90	\$0.23	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.75	\$0.12	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$46.50	\$0.00	\$0.00	\$0.00	\$0.75	\$0.23	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.75	\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.53	\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.46	\$0.08	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.54	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.27	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
6/29/18	\$41.50	\$0.00	\$0.00	\$0.00	\$2.27	\$0.64	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$42.50	\$0.00	\$0.00	\$0.00	\$1.57	\$0.52	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$43.00	\$0.00	\$0.00	\$0.00	\$1.53	\$0.46	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$43.50	\$0.00	\$0.00	\$0.00	\$1.37	\$0.39	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$44.00	\$0.00	\$0.00	\$0.00	\$1.38	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$45.00	\$0.00	\$0.00	\$0.00	\$1.04	\$0.27	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$45.50	\$0.00	\$0.00	\$0.00	\$0.94	\$0.17	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.75	\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$46.50	\$0.00	\$0.00	\$0.00	\$0.73	\$0.23	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.80	\$0.25	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.62	\$0.17	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.57	\$0.14	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.49	\$0.14	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$49.50	\$0.00	\$0.00	\$0.00	\$0.53	\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.60	\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$55.00	\$0.00	\$0.00	\$0.00	\$0.21	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$38.50	\$0.00	\$0.00	\$0.00	\$3.45	\$1.20	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$41.50	\$0.00	\$0.00	\$0.00	\$2.31	\$0.66	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$42.00	\$0.00	\$0.00	\$0.00	\$2.55	\$0.62	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$42.50	\$0.00	\$0.00	\$0.00	\$1.91	\$0.54	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$43.00	\$0.00	\$0.00	\$0.00	\$1.88	\$0.46	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$43.50	\$0.00	\$0.00	\$0.00	\$1.36	\$0.41	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$44.00	\$0.00	\$0.00	\$0.00	\$1.50	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$44.50	\$0.00	\$0.00	\$0.00	\$1.21	\$0.31	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$45.00	\$0.00	\$0.00	\$0.00	\$1.25	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$45.50	\$0.00	\$0.00	\$0.00	\$1.03	\$0.23	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
7/6/18	\$46.00	\$0.00	\$0.00	\$0.00	\$1.16	\$0.33	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.91	\$0.31	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.70	\$0.12	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.57	\$0.12	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$50.50	\$0.00	\$0.00	\$0.00	\$0.63	\$0.08	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$39.50	\$0.00	\$0.00	\$0.00	\$0.00	\$1.10	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.64	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$42.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.60	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.39	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.54	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.21	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.19	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$40.00	\$0.00	\$0.00	\$0.00	\$2.35	\$0.85	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$42.50	\$0.00	\$0.00	\$0.00	\$1.81	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$45.00	\$0.00	\$0.00	\$0.00	\$1.07	\$0.39	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.69	\$0.19	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.27	\$0.12	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$52.50	\$0.00	\$0.00	\$0.00	\$0.39	\$0.27	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$55.00	\$0.00	\$0.00	\$0.00	\$0.10	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	
7/27/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.68	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$30.00	\$0.00	\$0.00	\$0.00	\$3.21	\$0.91	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$35.00	\$0.00	\$0.00	\$0.00	\$3.47	\$1.12	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$37.50	\$0.00	\$0.00	\$0.00	\$2.79	\$0.99	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$40.00	\$0.00	\$0.00	\$0.00	\$2.23	\$0.83	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$42.50	\$0.00	\$0.00	\$0.00	\$1.95	\$0.70	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$45.00	\$0.00	\$0.00	\$0.00	\$1.49	\$0.52	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
9/21/18	\$47.50	\$0.00	\$0.00	\$0.00	\$1.12	\$0.39	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.59	\$0.27	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$52.50	\$0.00	\$0.00	\$0.00	\$0.56	\$0.21	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$55.00	\$0.00	\$0.00	\$0.00	\$1.14	\$0.19	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$60.00	\$0.00	\$0.00	\$0.00	\$0.19	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$65.00	\$0.00	\$0.00	\$0.00	\$1.15	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	
11/9/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.96	\$0.00	\$0.00	\$0.00	
11/9/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	
11/9/18	\$46.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.26	\$0.00	\$0.00	\$0.00	
11/9/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.89	\$0.00	\$0.00	\$0.00	
11/9/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.54	\$0.00	\$0.00	\$0.00	
11/9/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.40	\$0.00	\$0.00	\$0.00	
11/9/18	\$48.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.22	\$0.00	\$0.00	\$0.00	
11/9/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.15	\$0.00	\$0.00	\$0.00	
11/9/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.10	\$0.00	\$0.00	\$0.00	
11/9/18	\$50.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.05	\$0.00	\$0.00	\$0.00	
11/9/18	\$51.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.05	\$0.00	\$0.00	\$0.00	
11/9/18	\$51.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.05	\$0.00	\$0.00	\$0.00	
11/9/18	\$52.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	
11/9/18	\$52.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	
11/16/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.55	\$0.13
11/16/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.83	\$0.08
11/16/18	\$25.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.73	\$0.05
11/16/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.75	\$0.03
11/16/18	\$26.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.25	\$0.05
11/16/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.72	\$0.03

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/16/18	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.28	\$0.95	\$0.03
11/16/18	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.99	\$0.80	\$0.03
11/16/18	\$28.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.45	\$0.65	\$0.03
11/16/18	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.82	\$0.53	\$0.03
11/16/18	\$29.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.42	\$0.43	\$0.03
11/16/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.11	\$0.43	\$0.03
11/16/18	\$30.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.82	\$0.30	\$0.03
11/16/18	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.30	\$0.18	\$0.03
11/16/18	\$31.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.99	\$0.18	\$0.03
11/16/18	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.77	\$0.10	\$0.03
11/16/18	\$32.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.43	\$0.10	\$0.03
11/16/18	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.19	\$0.08	\$0.03
11/16/18	\$33.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.97	\$0.05	\$0.03
11/16/18	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.77	\$0.03	\$0.03
11/16/18	\$34.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.54	\$0.15	\$0.03
11/16/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.14	\$4.34	\$0.34	\$0.00	\$0.03
11/16/18	\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.41	\$0.00	\$0.03
11/16/18	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.33	\$3.72	\$0.24	\$0.00	\$0.03
11/16/18	\$36.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.27	\$0.00	\$0.03
11/16/18	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.44	\$3.08	\$0.20	\$0.08	\$0.03
11/16/18	\$37.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.12	\$0.00	\$0.03
11/16/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.61	\$2.35	\$0.10	\$0.00	\$0.03
11/16/18	\$38.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.07	\$0.00	\$0.03
11/16/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.72	\$1.71	\$0.02	\$0.00	\$0.03
11/16/18	\$39.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.05	\$0.00	\$0.03
11/16/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.83	\$1.23	\$0.00	\$0.00	\$0.03

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/16/18	\$40.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.05	\$0.00	\$0.03
11/16/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.00	\$0.83	\$0.05	\$0.00	\$0.03
11/16/18	\$41.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.17	\$0.69	\$0.05	\$0.00	\$0.03
11/16/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.64	\$0.47	\$0.00	\$0.00	\$0.03
11/16/18	\$42.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.22	\$0.43	\$0.05	\$0.00	\$0.03
11/16/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.83	\$0.33	\$0.05	\$0.00	\$0.03
11/16/18	\$43.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.49	\$0.21	\$0.00	\$0.00	\$0.03
11/16/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.17	\$0.21	\$0.05	\$0.00	\$0.03
11/16/18	\$44.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.90	\$0.17	\$0.05	\$0.00	\$0.03
11/16/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.98	\$0.17	\$0.05	\$0.00	\$0.03
11/16/18	\$45.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.47	\$0.10	\$0.02	\$0.00	\$0.03
11/16/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.31	\$0.29	\$0.19	\$0.00	\$0.03
11/16/18	\$46.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.75	\$0.07	\$0.00	\$0.00	\$0.03
11/16/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.45	\$0.07	\$0.00	\$0.00	\$0.03
11/16/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.25	\$0.19	\$0.12	\$0.00	\$0.03
11/16/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.93	\$0.12	\$0.00	\$0.00	\$0.03
11/16/18	\$48.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.78	\$0.19	\$0.12	\$0.00	\$0.03
11/16/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.51	\$0.09	\$0.00	\$0.00	\$0.03
11/16/18	\$49.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.39	\$0.09	\$0.00	\$0.00	\$0.03
11/16/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.32	\$0.00	\$0.00	\$0.00	\$0.03
11/16/18	\$50.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.22	\$0.09	\$0.00	\$0.00	\$0.03
11/16/18	\$51.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.14	\$0.09	\$0.00	\$0.00	\$0.03
11/16/18	\$51.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.15	\$0.12	\$0.12	\$0.00	\$0.03
11/16/18	\$52.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.09	\$0.09	\$0.00	\$0.00	\$0.03
11/16/18	\$52.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.09	\$0.09	\$0.00	\$0.00	\$0.03
11/16/18	\$53.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.19	\$0.19	\$0.12	\$0.00	\$0.03

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/16/18	\$53.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.10	\$0.10	\$0.10	\$0.00	\$0.03
11/16/18	\$54.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.27	\$0.27	\$0.22	\$0.00	\$0.03
11/16/18	\$55.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.07	\$0.07	\$0.00	\$0.00	\$0.03
11/16/18	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.05	\$0.05	\$0.00	\$0.00	\$0.03
11/23/18	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.48	\$1.23
11/23/18	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.80	\$1.20
11/23/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.53	\$0.85
11/23/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.17	\$1.88	\$0.90
11/23/18	\$25.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.45	\$1.03
11/23/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.24	\$1.45	\$0.70
11/23/18	\$26.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.55	\$0.58
11/23/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.43	\$1.90	\$0.50
11/23/18	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.10	\$1.43	\$0.48
11/23/18	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.68	\$1.13	\$0.40
11/23/18	\$28.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.36	\$0.98	\$0.33
11/23/18	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.09	\$0.93	\$0.15
11/23/18	\$29.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.60	\$1.35	\$0.23
11/23/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.39	\$0.78	\$0.13
11/23/18	\$30.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.03	\$0.80	\$0.10
11/23/18	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.65	\$0.45	\$0.15
11/23/18	\$31.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.41	\$0.38	\$0.10
11/23/18	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.09	\$0.33	\$0.10
11/23/18	\$32.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.85	\$0.25	\$0.10
11/23/18	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.68	\$0.25	\$0.05
11/23/18	\$33.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.39	\$0.20	\$0.05
11/23/18	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.22	\$0.20	\$0.05

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/23/18	\$34.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.02	\$0.15	\$0.05
11/23/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.24	\$4.49	\$0.70	\$0.00	\$0.20
11/23/18	\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.80	\$0.08	\$0.05
11/23/18	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.68	\$0.08	\$0.03
11/23/18	\$36.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.49	\$0.05	\$0.05
11/23/18	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.39	\$0.13	\$0.03
11/23/18	\$37.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.39	\$0.03	\$0.05
11/23/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.24	\$0.05	\$0.03
11/23/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.15	\$0.05	\$0.03
11/23/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.45	\$1.35	\$0.17	\$0.05	\$0.03
11/23/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.18	\$1.57	\$0.63	\$0.63	\$0.03
11/23/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.73	\$0.79	\$0.12	\$0.08	\$0.03
11/23/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.92	\$0.60	\$0.22	\$0.03	\$0.03
11/23/18	\$43.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.05	\$0.05	\$0.03
11/23/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.19	\$0.36	\$0.12	\$0.05	\$0.03
11/23/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.06	\$0.24	\$0.10	\$0.05	\$0.03
11/23/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.13	\$0.59	\$0.50	\$0.50	\$0.03
11/23/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.21	\$0.20	\$0.15	\$0.15	\$0.03
11/23/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.61	\$1.00	\$0.95	\$0.95	\$0.03
11/23/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.51	\$0.17	\$0.12	\$0.03	\$0.03
11/23/18	\$51.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.41	\$0.22	\$0.12	\$0.00	\$0.03
11/23/18	\$52.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.95	\$0.85	\$0.80	\$0.80	\$0.03
11/23/18	\$53.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.25	\$0.05	\$0.05	\$0.00	\$0.03
11/30/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.62	\$1.98	\$1.38
11/30/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.10	\$1.60	\$0.95
11/30/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.63	\$2.18	\$0.55

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/30/18	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.47	\$1.65	\$0.40
11/30/18	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.97	\$1.78	\$0.53
11/30/18	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.26	\$1.45	\$0.40
11/30/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.67	\$1.40	\$0.30
11/30/18	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.92	\$0.55	\$0.35
11/30/18	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.39	\$0.58	\$0.28
11/30/18	\$32.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.19	\$1.13	\$0.20
11/30/18	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.95	\$0.45	\$0.18
11/30/18	\$33.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.73	\$0.30	\$0.15
11/30/18	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.54	\$0.38	\$0.10
11/30/18	\$34.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.36	\$0.28	\$0.08
11/30/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.15	\$4.79	\$1.17	\$0.30	\$0.10
11/30/18	\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.03	\$1.03	\$0.10
11/30/18	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.83	\$0.13	\$0.10
11/30/18	\$36.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.73	\$0.15	\$0.05
11/30/18	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.63	\$0.13	\$0.03
11/30/18	\$37.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.54	\$0.13	\$0.03
11/30/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.47	\$1.54	\$0.22	\$0.03	\$0.05
11/30/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.55	\$1.14	\$0.12	\$0.03	\$0.05
11/30/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.63	\$0.81	\$0.17	\$0.05	\$0.03
11/30/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.57	\$1.29	\$0.73	\$0.73	\$0.03
11/30/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.01	\$0.40	\$0.05	\$0.00	\$0.18
11/30/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.49	\$0.17	\$0.02	\$0.00	\$0.28
11/30/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.40	\$0.64	\$0.53	\$0.53	\$0.28
11/30/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.66	\$1.37	\$1.30	\$1.30	\$0.03
11/30/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.06	\$0.17	\$0.12	\$0.10	\$0.03

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/30/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.91	\$0.34	\$0.25	\$0.25	\$0.03
11/30/18	\$51.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.84	\$1.47	\$1.43	\$1.43	\$0.03
11/30/18	\$52.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.69	\$0.47	\$0.43	\$0.43	\$0.03
11/30/18	\$53.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.27	\$0.12	\$0.08	\$0.08	\$0.03
11/30/18	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.62	\$0.60	\$0.55	\$0.55	\$0.03
12/7/18	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.78	\$3.93	\$2.88
12/7/18	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.31	\$3.70	\$2.50
12/7/18	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.05	\$2.78	\$1.93
12/7/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.46	\$2.38	\$1.63
12/7/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.40	\$2.00	\$1.55
12/7/18	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.78	\$1.20	\$0.90
12/7/18	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.44	\$1.25	\$0.55
12/7/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.68	\$0.93	\$0.58
12/7/18	\$30.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.61	\$1.00	\$0.35
12/7/18	\$31.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.98	\$0.78	\$0.30
12/7/18	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.73	\$0.73	\$0.28
12/7/18	\$32.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.49	\$0.60	\$0.25
12/7/18	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.24	\$0.53	\$0.23
12/7/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.06	\$4.70	\$1.36	\$0.28	\$0.23
12/7/18	\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.22	\$0.23	\$0.18
12/7/18	\$36.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.92	\$0.15	\$0.15
12/7/18	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.83	\$0.13	\$0.13
12/7/18	\$37.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.83	\$0.10	\$0.13
12/7/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.56	\$0.13	\$0.10
12/7/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.51	\$1.78	\$0.41	\$0.00	\$0.35
12/7/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.43	\$1.17	\$0.22	\$0.05	\$0.05

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
12/7/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.91	\$1.05	\$0.22	\$0.03	\$0.05
12/7/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.40	\$0.81	\$0.22	\$0.05	\$0.03
12/7/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.03	\$0.48	\$0.05	\$0.03	\$0.03
12/7/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.42	\$0.41	\$0.12	\$0.08	\$0.03
12/7/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.69	\$0.24	\$0.10	\$0.05	\$0.03
12/7/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.12	\$0.22	\$0.07	\$0.03	\$0.03
12/7/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.60	\$0.10	\$0.03	\$0.03	\$0.03
12/7/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.91	\$0.15	\$0.08	\$0.08	\$0.03
12/7/18	\$51.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.64	\$0.12	\$0.08	\$0.08	\$0.03
12/7/18	\$52.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.51	\$0.17	\$0.12	\$0.03	\$0.03
12/7/18	\$53.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.32	\$0.10	\$0.05	\$0.05	\$0.03
12/7/18	\$54.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.32	\$0.17	\$0.12	\$0.08	\$0.03
12/14/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.59	\$2.75	\$1.65
12/14/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.80	\$2.30	\$1.45
12/14/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.40	\$2.05	\$1.15
12/14/18	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.28	\$1.63	\$0.70
12/14/18	\$28.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.83	\$1.35	\$0.75
12/14/18	\$30.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.56	\$0.93	\$0.60
12/14/18	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.78	\$0.73	\$0.50
12/14/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.39	\$0.33	\$0.48
12/14/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.71	\$0.13	\$0.33
12/14/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.34	\$0.10	\$0.28
12/14/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.04	\$1.13	\$0.37	\$0.25	\$0.05
12/14/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.16	\$0.63	\$0.23	\$0.23	\$0.05
12/14/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.45	\$0.44	\$0.25	\$0.25	\$0.03
12/14/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.32	\$0.30	\$0.23	\$0.23	\$0.03

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
12/14/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.41	\$0.20	\$0.20	\$0.20	\$0.03
12/14/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.06	\$0.20	\$0.20	\$0.20	\$0.03
12/14/18	\$51.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.82	\$0.20	\$0.20	\$0.20	\$0.03
12/14/18	\$54.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.37	\$0.20	\$0.20	\$0.20	\$0.03
12/21/18	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.41	\$3.85	\$3.45
12/21/18	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.50	\$3.33	\$2.53
12/21/18	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.19	\$3.25	\$2.00
12/21/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.54	\$2.75	\$1.75
12/21/18	\$25.00	\$0.00	\$0.00	\$0.00	\$25.00	\$22.05	\$20.32	\$12.86	\$6.75	\$2.20	\$1.75
12/21/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.59	\$11.89	\$6.16	\$1.90	\$1.45
12/21/18	\$27.50	\$0.00	\$0.00	\$0.00	\$22.07	\$19.67	\$18.55	\$11.04	\$5.50	\$1.85	\$0.93
12/21/18	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.33	\$9.68	\$4.47	\$1.28	\$0.83
12/21/18	\$30.00	\$0.00	\$0.00	\$0.00	\$20.25	\$17.30	\$16.05	\$8.94	\$3.78	\$0.95	\$0.88
12/21/18	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.77	\$8.61	\$3.64	\$0.95	\$0.43
12/21/18	\$32.50	\$0.00	\$0.00	\$0.00	\$17.96	\$15.41	\$14.17	\$6.76	\$2.73	\$0.73	\$0.40
12/21/18	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.62	\$5.40	\$1.92	\$0.40	\$0.48
12/21/18	\$35.00	\$0.00	\$0.00	\$0.00	\$16.28	\$13.33	\$12.17	\$4.76	\$1.68	\$0.38	\$0.35
12/21/18	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.00	\$4.13	\$1.39	\$0.28	\$0.28
12/21/18	\$37.50	\$0.00	\$0.00	\$0.00	\$13.52	\$11.32	\$10.29	\$3.37	\$1.19	\$0.28	\$0.13
12/21/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.43	\$2.41	\$0.66	\$0.08	\$0.23
12/21/18	\$40.00	\$0.00	\$0.00	\$0.00	\$10.36	\$8.61	\$7.62	\$1.79	\$0.51	\$0.10	\$0.13
12/21/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.01	\$1.60	\$0.46	\$0.08	\$0.08
12/21/18	\$42.50	\$0.00	\$0.00	\$0.00	\$8.27	\$6.77	\$5.94	\$1.12	\$0.34	\$0.08	\$0.05
12/21/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.27	\$0.67	\$0.17	\$0.03	\$0.05
12/21/18	\$45.00	\$0.00	\$0.00	\$0.00	\$5.65	\$4.30	\$3.66	\$0.57	\$0.19	\$0.03	\$0.08
12/21/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.98	\$0.36	\$0.12	\$0.00	\$0.08

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
12/21/18	\$47.50	\$0.00	\$0.00	\$0.00	\$3.59	\$2.59	\$2.12	\$0.24	\$0.07	\$0.03	\$0.03
12/21/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.43	\$0.12	\$0.08	\$0.08	\$0.03
12/21/18	\$50.00	\$0.00	\$0.00	\$0.00	\$2.29	\$1.49	\$1.03	\$0.10	\$0.05	\$0.00	\$0.03
12/21/18	\$52.50	\$0.00	\$0.00	\$0.00	\$1.43	\$0.78	\$0.49	\$0.12	\$0.07	\$0.00	\$0.03
12/21/18	\$55.00	\$0.00	\$0.00	\$0.00	\$1.42	\$0.52	\$0.27	\$0.10	\$0.05	\$0.05	\$0.03
12/21/18	\$60.00	\$0.00	\$0.00	\$0.00	\$1.27	\$0.22	\$0.07	\$0.07	\$0.00	\$0.00	\$0.03
12/21/18	\$65.00	\$0.00	\$0.00	\$0.00	\$1.23	\$0.18	\$0.07	\$0.07	\$0.05	\$0.05	\$0.03
12/28/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.42	\$1.63	\$1.50
12/28/18	\$28.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.64	\$1.30	\$1.15
12/28/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.58	\$0.88	\$1.13
12/28/18	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.07	\$0.65	\$1.05
12/28/18	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.26	\$0.45	\$0.78
12/28/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.70	\$0.35	\$0.50
12/28/18	\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.54	\$0.40	\$0.40
12/28/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.71	\$0.20	\$0.38
12/28/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.47	\$0.18	\$0.30
12/28/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.97	\$0.98	\$0.17	\$0.08	\$0.25
12/28/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.11	\$0.47	\$0.03	\$0.03	\$0.28
12/28/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.44	\$0.31	\$0.00	\$0.00	\$0.40
1/18/19	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.05	\$4.20	\$5.15
1/18/19	\$20.00	\$0.00	\$0.00	\$0.00	\$26.55	\$24.80	\$23.31	\$15.85	\$9.41	\$3.70	\$4.05
1/18/19	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.19	\$13.58	\$7.80	\$2.68	\$2.53
1/18/19	\$25.00	\$0.00	\$0.00	\$0.00	\$23.31	\$21.91	\$20.21	\$12.55	\$6.73	\$2.38	\$2.18
1/18/19	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.62	\$12.16	\$6.52	\$2.03	\$1.98
1/18/19	\$27.50	\$0.00	\$0.00	\$0.00	\$20.37	\$18.67	\$17.30	\$10.09	\$4.88	\$1.40	\$2.05
1/18/19	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.71	\$9.50	\$4.38	\$0.83	\$1.90

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
1/18/19	\$30.00	\$0.00	\$0.00	\$24.87	\$19.49	\$17.09	\$15.69	\$8.43	\$3.79	\$1.13	\$1.48
1/18/19	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.38	\$8.02	\$3.67	\$1.15	\$1.05
1/18/19	\$32.50	\$0.00	\$0.00	\$0.00	\$18.11	\$15.56	\$14.40	\$6.95	\$2.87	\$0.58	\$0.95
1/18/19	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.42	\$5.46	\$2.19	\$0.48	\$0.95
1/18/19	\$35.00	\$0.00	\$0.00	\$19.30	\$15.34	\$13.19	\$11.94	\$4.98	\$2.07	\$0.35	\$0.65
1/18/19	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.75	\$4.08	\$1.43	\$0.08	\$0.93
1/18/19	\$37.50	\$0.00	\$0.00	\$0.00	\$12.39	\$11.29	\$10.09	\$3.43	\$1.39	\$0.30	\$0.48
1/18/19	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.66	\$2.53	\$0.88	\$0.18	\$0.55
1/18/19	\$40.00	\$0.00	\$0.00	\$14.15	\$11.05	\$9.05	\$8.02	\$2.41	\$0.75	\$0.15	\$0.40
1/18/19	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.40	\$1.92	\$0.76	\$0.25	\$0.28
1/18/19	\$42.50	\$0.00	\$0.00	\$0.00	\$8.44	\$6.64	\$5.71	\$1.24	\$0.31	\$0.00	\$0.43
1/18/19	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.83	\$0.88	\$0.29	\$0.00	\$0.40
1/18/19	\$45.00	\$0.00	\$0.00	\$8.41	\$6.04	\$4.94	\$4.34	\$0.86	\$0.27	\$0.08	\$0.25
1/18/19	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.35	\$0.36	\$0.07	\$0.03	\$0.33
1/18/19	\$47.50	\$0.00	\$0.00	\$0.00	\$4.62	\$3.47	\$2.44	\$0.24	\$0.05	\$0.00	\$0.38
1/18/19	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.02	\$0.14	\$0.00	\$0.00	\$0.33
1/18/19	\$50.00	\$0.00	\$0.00	\$4.38	\$2.88	\$2.13	\$1.63	\$0.10	\$0.10	\$0.10	\$0.33
1/18/19	\$52.50	\$0.00	\$0.00	\$0.00	\$1.94	\$1.27	\$0.91	\$0.00	\$0.00	\$0.00	\$0.15
1/18/19	\$55.00	\$0.00	\$0.00	\$2.06	\$1.14	\$0.67	\$0.42	\$0.05	\$0.05	\$0.00	\$0.10
1/18/19	\$57.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.25	\$0.05	\$0.05	\$0.05	\$0.25
1/18/19	\$60.00	\$0.00	\$0.00	\$1.07	\$0.63	\$0.51	\$0.20	\$0.00	\$0.00	\$0.00	\$0.03
1/18/19	\$65.00	\$0.00	\$0.00	\$0.31	\$0.22	\$0.07	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03
1/18/19	\$70.00	\$0.00	\$0.00	\$1.44	\$1.44	\$0.27	\$0.23	\$0.23	\$0.23	\$0.23	\$0.03
1/18/19	\$75.00	\$0.00	\$0.00	\$0.52	\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.05
1/18/19	\$80.00	\$0.00	\$0.00	\$0.18	\$0.18	\$0.11	\$0.05	\$0.05	\$0.00	\$0.00	\$0.03
3/15/19	\$17.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.80	\$4.80	\$5.80

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
3/15/19	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.16	\$4.40	\$5.55
3/15/19	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.11	\$3.55	\$4.80
3/15/19	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.81	\$14.25	\$8.24	\$3.35	\$4.30
3/15/19	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.66	\$14.05	\$8.28	\$3.05	\$3.95
3/15/19	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.17	\$13.66	\$7.98	\$2.80	\$3.55
3/15/19	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.54	\$12.79	\$7.34	\$2.55	\$3.30
3/15/19	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.01	\$11.35	\$6.24	\$2.13	\$3.18
3/15/19	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.36	\$10.91	\$5.70	\$1.88	\$2.93
3/15/19	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.91	\$10.69	\$5.63	\$1.95	\$2.35
3/15/19	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.27	\$10.11	\$5.19	\$1.75	\$2.10
3/15/19	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.03	\$8.87	\$4.23	\$1.28	\$2.18
3/15/19	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.24	\$7.83	\$3.71	\$0.95	\$2.20
3/15/19	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14.96	\$7.55	\$3.76	\$1.08	\$1.70
3/15/19	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.76	\$6.79	\$3.24	\$0.78	\$1.68
3/15/19	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.41	\$6.59	\$3.23	\$1.03	\$1.15
3/15/19	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.43	\$5.66	\$2.59	\$0.65	\$1.30
3/15/19	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.00	\$5.14	\$2.53	\$0.53	\$1.20
3/15/19	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.03	\$4.61	\$2.15	\$0.58	\$0.95
3/15/19	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.42	\$4.00	\$1.78	\$0.33	\$0.98
3/15/19	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.33	\$3.45	\$1.56	\$0.35	\$0.83
3/15/19	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.37	\$3.24	\$1.63	\$0.35	\$0.68
3/15/19	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.07	\$2.49	\$1.05	\$0.15	\$0.75
3/15/19	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.40	\$2.09	\$1.02	\$0.23	\$0.58
3/15/19	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.53	\$1.71	\$0.77	\$0.53	\$0.60
3/15/19	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.93	\$1.41	\$0.63	\$0.13	\$0.50
3/15/19	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.30	\$1.03	\$0.51	\$0.00	\$0.53

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
3/15/19	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.88	\$1.08	\$0.73	\$0.00	\$0.50
3/15/19	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.84	\$0.56	\$0.41	\$0.08	\$0.53
3/15/19	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.23	\$0.44	\$0.44	\$0.00	\$0.43
3/15/19	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.82	\$0.37	\$0.30	\$0.30	\$0.45
3/15/19	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.27	\$0.35	\$0.28	\$0.28	\$0.28
3/15/19	\$52.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.60	\$0.17	\$0.17	\$0.00	\$0.23
3/15/19	\$55.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.89	\$0.00	\$0.00	\$0.00	\$0.43
3/15/19	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.17	\$0.00	\$0.00	\$0.00	\$0.35
6/21/19	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.05	\$3.45	\$4.85
6/21/19	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.70	\$3.35	\$4.35
6/21/19	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.75	\$3.15	\$3.90
6/21/19	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.62	\$2.65	\$3.95
6/21/19	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.03	\$2.50	\$3.70
6/21/19	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.06	\$2.48	\$3.03
6/21/19	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.17	\$10.60	\$5.24	\$2.10	\$3.15
6/21/19	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.34	\$9.82	\$4.99	\$1.55	\$2.80
6/21/19	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.69	\$8.57	\$4.36	\$1.60	\$2.75
6/21/19	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14.89	\$7.92	\$4.09	\$1.48	\$2.48
6/21/19	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14.53	\$7.67	\$4.02	\$1.65	\$2.00
6/21/19	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.02	\$6.41	\$3.28	\$1.20	\$1.75
6/21/19	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.99	\$5.57	\$2.59	\$0.65	\$1.95
6/21/19	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.55	\$5.28	\$2.67	\$1.05	\$1.48
6/21/19	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.44	\$4.42	\$2.10	\$0.53	\$1.60
6/21/19	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.95	\$4.73	\$2.41	\$1.18	\$0.95
6/21/19	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.51	\$4.18	\$1.96	\$0.73	\$1.05
6/21/19	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.46	\$3.63	\$1.79	\$0.68	\$0.90

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
6/21/19	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.29	\$2.76	\$1.15	\$0.33	\$1.25
6/21/19	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.94	\$2.81	\$1.17	\$0.33	\$0.98
6/21/19	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.28	\$2.39	\$1.14	\$0.73	\$0.78
6/21/19	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.27	\$1.55	\$0.65	\$0.00	\$1.03
6/21/19	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.86	\$1.46	\$0.56	\$0.13	\$0.93
6/21/19	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.35	\$1.48	\$0.72	\$0.55	\$0.63
6/21/19	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.93	\$0.74	\$0.27	\$0.10	\$0.63
6/21/19	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.99	\$0.64	\$0.22	\$0.00	\$0.63
6/21/19	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.80	\$0.53	\$0.19	\$0.00	\$0.53
6/21/19	\$55.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.38	\$0.15	\$0.15	\$0.15	\$0.48
6/21/19	\$57.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.09	\$0.08	\$0.08	\$0.08	\$0.45
1/17/20	\$20.00	\$0.00	\$0.00	\$0.00	\$24.70	\$22.55	\$21.23	\$14.12	\$8.01	\$3.70	\$6.65
1/17/20	\$22.50	\$0.00	\$0.00	\$0.00	\$23.66	\$21.46	\$20.14	\$13.37	\$7.45	\$3.10	\$5.90
1/17/20	\$25.00	\$0.00	\$0.00	\$0.00	\$21.52	\$19.17	\$17.85	\$11.58	\$6.13	\$2.55	\$5.35
1/17/20	\$27.50	\$0.00	\$0.00	\$0.00	\$20.32	\$18.32	\$16.99	\$10.08	\$5.25	\$2.20	\$4.25
1/17/20	\$30.00	\$0.00	\$0.00	\$20.96	\$17.77	\$16.37	\$15.21	\$8.29	\$4.27	\$1.80	\$3.45
1/17/20	\$32.50	\$0.00	\$0.00	\$0.00	\$16.77	\$14.72	\$13.52	\$7.05	\$3.16	\$1.28	\$3.43
1/17/20	\$35.00	\$0.00	\$0.00	\$17.21	\$14.35	\$13.65	\$12.16	\$5.69	\$2.80	\$1.35	\$2.60
1/17/20	\$37.50	\$0.00	\$0.00	\$0.00	\$14.06	\$11.86	\$10.54	\$4.46	\$2.38	\$0.98	\$2.58
1/17/20	\$40.00	\$0.00	\$0.00	\$13.44	\$11.60	\$10.50	\$9.26	\$3.38	\$1.34	\$0.35	\$2.13
1/17/20	\$42.50	\$0.00	\$0.00	\$0.00	\$11.68	\$9.48	\$8.61	\$3.72	\$1.99	\$1.05	\$1.45
1/17/20	\$45.00	\$0.00	\$0.00	\$9.13	\$8.31	\$7.41	\$6.58	\$2.43	\$1.46	\$0.95	\$1.30
1/17/20	\$47.50	\$0.00	\$0.00	\$0.00	\$9.05	\$7.15	\$6.74	\$2.83	\$1.84	\$0.80	\$0.95
1/17/20	\$50.00	\$0.00	\$0.00	\$8.66	\$7.35	\$6.20	\$4.82	\$1.70	\$0.88	\$0.15	\$1.35
1/17/20	\$52.50	\$0.00	\$0.00	\$0.00	\$5.52	\$3.97	\$3.37	\$0.75	\$0.75	\$0.00	\$1.33
1/17/20	\$55.00	\$0.00	\$0.00	\$4.04	\$3.36	\$2.71	\$2.30	\$0.07	\$0.03	\$0.03	\$1.28

Expiration Date	Strike Price	Call Option Artificial Inflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
1/17/20	\$57.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.12	\$0.39	\$0.39	\$0.00	\$0.88
1/17/20	\$60.00	\$0.00	\$0.00	\$3.56	\$2.55	\$1.42	\$0.99	\$0.00	\$0.00	\$0.00	\$0.93
1/17/20	\$65.00	\$0.00	\$0.00	\$2.07	\$1.69	\$1.69	\$1.34	\$0.18	\$0.18	\$0.18	\$0.63
1/17/20	\$70.00	\$0.00	\$0.00	\$2.23	\$2.23	\$1.36	\$0.98	\$0.19	\$0.19	\$0.00	\$0.55
1/17/20	\$75.00	\$0.00	\$0.00	\$1.32	\$1.32	\$1.27	\$0.54	\$0.05	\$0.05	\$0.00	\$0.50
1/17/20	\$80.00	\$0.00	\$0.00	\$0.93	\$0.93	\$0.55	\$0.35	\$0.00	\$0.00	\$0.00	\$0.60
1/15/21	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.40	\$8.15
1/15/21	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.72	\$3.85	\$7.55
1/15/21	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.36	\$12.00	\$7.17	\$3.25	\$6.55
1/15/21	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.93	\$10.87	\$5.66	\$2.90	\$6.40
1/15/21	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.53	\$9.81	\$5.22	\$2.80	\$4.90
1/15/21	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.77	\$7.16	\$3.65	\$2.20	\$5.50
1/15/21	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.86	\$7.44	\$3.75	\$2.15	\$3.90
1/15/21	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.25	\$5.13	\$3.09	\$1.35	\$3.75
1/15/21	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.08	\$4.35	\$2.22	\$1.38	\$3.50
1/15/21	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.97	\$3.19	\$1.68	\$0.95	\$3.40
1/15/21	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.91	\$3.17	\$1.11	\$0.70	\$3.05
1/15/21	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.41	\$2.96	\$1.28	\$0.73	\$2.33
1/15/21	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.70	\$1.85	\$1.14	\$0.78	\$1.70
1/15/21	\$52.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.63	\$1.00	\$0.12	\$0.00	\$2.08
1/15/21	\$55.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.31	\$0.54	\$0.54	\$0.25	\$2.05
1/15/21	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.70	\$0.53	\$0.53	\$0.53	\$1.85
1/15/21	\$65.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.21	\$0.63	\$0.63	\$0.00	\$1.25
1/15/21	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.26	\$0.46	\$0.46	\$0.00	\$1.25

TABLE 8

**PG&E Exchange-Traded Put Options
Artificial Deflation Per Share and Holding Values for Plan of Allocation**

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
10/20/17	\$60.00	\$2.96	\$2.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
10/20/17	\$65.00	\$7.48	\$6.13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
10/20/17	\$70.00	\$11.53	\$7.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11/17/17	\$55.00	\$1.53	\$1.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11/17/17	\$60.00	\$3.78	\$3.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11/17/17	\$65.00	\$7.39	\$5.46	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11/17/17	\$70.00	\$10.82	\$6.74	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
11/17/17	\$75.00	\$12.13	\$7.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/15/17	\$50.00	\$0.69	\$0.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/15/17	\$55.00	\$1.78	\$1.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/15/17	\$60.00	\$3.92	\$3.27	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/15/17	\$65.00	\$7.49	\$5.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/15/17	\$70.00	\$10.47	\$6.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$45.00	\$0.00	\$0.00	\$0.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$47.00	\$0.00	\$0.00	\$2.37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$50.00	\$0.00	\$0.00	\$5.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$50.50	\$0.00	\$0.00	\$6.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$51.00	\$0.00	\$0.00	\$6.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$51.50	\$0.00	\$0.00	\$6.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$52.00	\$0.00	\$0.00	\$6.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$52.50	\$0.00	\$0.00	\$7.26	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
12/22/17	\$53.00	\$0.00	\$0.00	\$6.87	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$53.50	\$0.00	\$0.00	\$7.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$54.00	\$0.00	\$0.00	\$7.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$55.00	\$0.00	\$0.00	\$7.41	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$55.50	\$0.00	\$0.00	\$6.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$56.00	\$0.00	\$0.00	\$6.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$60.00	\$0.00	\$0.00	\$6.29	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/22/17	\$65.00	\$0.00	\$0.00	\$7.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$47.50	\$0.00	\$0.00	\$3.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$49.00	\$0.00	\$0.00	\$4.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$49.50	\$0.00	\$0.00	\$5.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$50.00	\$0.00	\$0.00	\$5.61	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$50.50	\$0.00	\$0.00	\$5.74	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$51.00	\$0.00	\$0.00	\$6.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$51.50	\$0.00	\$0.00	\$6.27	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$52.00	\$0.00	\$0.00	\$6.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$52.50	\$0.00	\$0.00	\$5.71	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$53.00	\$0.00	\$0.00	\$6.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$53.50	\$0.00	\$0.00	\$5.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$54.00	\$0.00	\$0.00	\$6.27	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$54.50	\$0.00	\$0.00	\$6.92	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$55.00	\$0.00	\$0.00	\$6.29	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$55.50	\$0.00	\$0.00	\$6.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$58.50	\$0.00	\$0.00	\$6.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$60.00	\$0.00	\$0.00	\$6.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$61.00	\$0.00	\$0.00	\$6.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods										Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018		
12/29/17	\$61.50	\$0.00	\$0.00	\$6.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$62.00	\$0.00	\$0.00	\$6.39	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$62.50	\$0.00	\$0.00	\$6.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
12/29/17	\$63.00	\$0.00	\$0.00	\$6.39	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$46.50	\$0.00	\$0.00	\$2.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$49.50	\$0.00	\$0.00	\$5.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$50.00	\$0.00	\$0.00	\$5.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$50.50	\$0.00	\$0.00	\$5.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$51.00	\$0.00	\$0.00	\$6.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$51.50	\$0.00	\$0.00	\$5.74	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$52.00	\$0.00	\$0.00	\$6.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$52.50	\$0.00	\$0.00	\$6.22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$53.00	\$0.00	\$0.00	\$6.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$53.50	\$0.00	\$0.00	\$6.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$54.00	\$0.00	\$0.00	\$6.39	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$54.50	\$0.00	\$0.00	\$6.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/5/18	\$55.00	\$0.00	\$0.00	\$6.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/12/18	\$47.00	\$0.00	\$0.00	\$3.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/12/18	\$50.00	\$0.00	\$0.00	\$5.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/12/18	\$50.50	\$0.00	\$0.00	\$5.11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/12/18	\$51.00	\$0.00	\$0.00	\$5.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/12/18	\$51.50	\$0.00	\$0.00	\$5.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/12/18	\$52.00	\$0.00	\$0.00	\$5.98	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/12/18	\$52.50	\$0.00	\$0.00	\$6.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/12/18	\$55.50	\$0.00	\$0.00	\$6.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$32.50	\$0.00	\$0.00	\$0.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
1/19/18	\$40.00	\$0.00	\$0.00	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$42.50	\$0.00	\$0.00	\$1.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$45.00	\$0.00	\$0.00	\$2.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$47.00	\$0.00	\$0.00	\$3.68	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$47.50	\$0.00	\$0.00	\$4.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$49.00	\$0.00	\$0.00	\$4.69	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$49.50	\$0.00	\$0.00	\$5.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$50.00	\$0.00	\$0.00	\$5.47	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$50.50	\$0.00	\$0.00	\$5.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$51.00	\$0.00	\$0.00	\$5.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$51.50	\$0.00	\$0.00	\$5.81	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$52.00	\$0.00	\$0.00	\$6.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$52.50	\$0.00	\$0.00	\$6.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$53.00	\$0.00	\$0.00	\$6.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$53.50	\$0.00	\$0.00	\$6.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$54.00	\$0.00	\$0.00	\$6.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$55.00	\$0.00	\$0.00	\$6.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$57.50	\$0.00	\$0.00	\$6.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$60.00	\$0.00	\$0.00	\$6.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/19/18	\$65.00	\$0.00	\$0.00	\$6.29	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$47.00	\$0.00	\$0.00	\$3.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$50.00	\$0.00	\$0.00	\$5.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$50.50	\$0.00	\$0.00	\$5.61	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$51.00	\$0.00	\$0.00	\$6.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$51.50	\$0.00	\$0.00	\$6.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$52.00	\$0.00	\$0.00	\$6.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
1/26/18	\$53.00	\$0.00	\$0.00	\$6.39	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$54.00	\$0.00	\$0.00	\$6.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
1/26/18	\$55.00	\$0.00	\$0.00	\$6.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$40.00	\$0.00	\$0.00	\$1.04	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$42.50	\$0.00	\$0.00	\$1.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$45.00	\$0.00	\$0.00	\$2.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$47.50	\$0.00	\$0.00	\$4.19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$50.00	\$0.00	\$0.00	\$5.23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$52.50	\$0.00	\$0.00	\$5.71	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$55.00	\$0.00	\$0.00	\$6.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$57.50	\$0.00	\$0.00	\$6.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2/16/18	\$65.00	\$0.00	\$0.00	\$6.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$30.00	\$0.00	\$0.00	\$0.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$35.00	\$0.83	\$0.78	\$0.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$40.00	\$1.39	\$1.14	\$1.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$42.50	\$0.00	\$0.00	\$1.96	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$45.00	\$3.33	\$3.05	\$2.81	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$47.50	\$0.00	\$0.00	\$3.99	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$50.00	\$5.68	\$5.41	\$4.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$52.50	\$0.00	\$0.00	\$5.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$55.00	\$8.05	\$7.63	\$5.81	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$57.50	\$0.00	\$0.00	\$5.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$60.00	\$10.64	\$9.67	\$6.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$65.00	\$13.49	\$11.46	\$6.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
3/16/18	\$70.00	\$15.58	\$12.20	\$5.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
6/1/18	\$42.50	\$0.00	\$0.00	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$43.50	\$0.00	\$0.00	\$0.00	\$0.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$44.50	\$0.00	\$0.00	\$0.00	\$1.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$46.00	\$0.00	\$0.00	\$0.00	\$2.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/1/18	\$46.50	\$0.00	\$0.00	\$0.00	\$2.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$40.50	\$0.00	\$0.00	\$0.00	\$0.13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$41.50	\$0.00	\$0.00	\$0.00	\$0.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$42.50	\$0.00	\$0.00	\$0.00	\$0.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$43.50	\$0.00	\$0.00	\$0.00	\$1.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.98	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/8/18	\$44.50	\$0.00	\$0.00	\$0.00	\$0.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$30.00	\$0.00	\$0.00	\$0.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$35.00	\$0.00	\$0.00	\$0.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$37.50	\$0.00	\$0.00	\$0.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.02	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$38.50	\$0.00	\$0.00	\$0.00	\$0.06	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.14	\$0.14	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$39.50	\$0.00	\$0.00	\$0.00	\$0.33	\$0.23	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$40.00	\$0.00	\$0.00	\$1.92	\$0.57	\$0.39	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$40.50	\$0.00	\$0.00	\$0.00	\$0.76	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$41.00	\$0.00	\$0.00	\$0.00	\$1.05	\$0.62	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
6/15/18	\$41.50	\$0.00	\$0.00	\$0.00	\$1.18	\$0.81	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$42.00	\$0.00	\$0.00	\$0.00	\$1.43	\$0.95	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$42.50	\$0.00	\$0.00	\$3.96	\$1.63	\$1.03	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$43.00	\$0.00	\$0.00	\$0.00	\$2.39	\$1.14	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$43.50	\$0.00	\$0.00	\$0.00	\$2.20	\$1.18	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$44.00	\$0.00	\$0.00	\$0.00	\$2.22	\$1.22	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$45.00	\$0.00	\$0.00	\$5.53	\$2.56	\$1.28	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$47.00	\$0.00	\$0.00	\$0.00	\$4.24	\$1.49	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$47.50	\$0.00	\$0.00	\$6.43	\$2.75	\$1.20	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$50.00	\$0.00	\$0.00	\$6.80	\$2.30	\$0.95	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$52.50	\$0.00	\$0.00	\$8.53	\$3.83	\$1.28	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$55.00	\$0.00	\$0.00	\$8.43	\$3.01	\$1.16	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$57.50	\$0.00	\$0.00	\$8.80	\$3.52	\$1.32	\$0.00	\$0.00	\$0.00	\$0.00	
6/15/18	\$60.00	\$0.00	\$0.00	\$8.48	\$3.25	\$1.20	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$37.50	\$0.00	\$0.00	\$0.00	\$0.06	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.16	\$0.08	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$38.50	\$0.00	\$0.00	\$0.00	\$0.32	\$0.17	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.37	\$0.17	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$39.50	\$0.00	\$0.00	\$0.00	\$0.51	\$0.33	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.73	\$0.46	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$40.50	\$0.00	\$0.00	\$0.00	\$0.86	\$0.41	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$41.00	\$0.00	\$0.00	\$0.00	\$1.05	\$0.60	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$41.50	\$0.00	\$0.00	\$0.00	\$0.97	\$0.60	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$42.00	\$0.00	\$0.00	\$0.00	\$1.55	\$0.85	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$42.50	\$0.00	\$0.00	\$0.00	\$1.96	\$0.91	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$43.00	\$0.00	\$0.00	\$0.00	\$1.90	\$0.83	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
6/22/18	\$43.50	\$0.00	\$0.00	\$0.00	\$2.61	\$1.39	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$44.00	\$0.00	\$0.00	\$0.00	\$2.33	\$1.08	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$44.50	\$0.00	\$0.00	\$0.00	\$2.75	\$1.20	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$45.00	\$0.00	\$0.00	\$0.00	\$2.89	\$1.12	\$0.00	\$0.00	\$0.00	\$0.00	
6/22/18	\$45.50	\$0.00	\$0.00	\$0.00	\$2.46	\$0.91	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$36.50	\$0.00	\$0.00	\$0.00	\$0.04	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$37.50	\$0.00	\$0.00	\$0.00	\$0.15	\$0.10	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.22	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$38.50	\$0.00	\$0.00	\$0.00	\$0.39	\$0.17	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.55	\$0.25	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$39.50	\$0.00	\$0.00	\$0.00	\$0.56	\$0.29	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.58	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$40.50	\$0.00	\$0.00	\$0.00	\$0.68	\$0.46	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.98	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$41.50	\$0.00	\$0.00	\$0.00	\$1.34	\$0.66	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$42.00	\$0.00	\$0.00	\$0.00	\$1.49	\$0.77	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$42.50	\$0.00	\$0.00	\$0.00	\$1.42	\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$43.00	\$0.00	\$0.00	\$0.00	\$1.52	\$0.64	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$43.50	\$0.00	\$0.00	\$0.00	\$1.98	\$0.83	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$44.00	\$0.00	\$0.00	\$0.00	\$2.18	\$1.03	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$44.50	\$0.00	\$0.00	\$0.00	\$2.27	\$0.87	\$0.00	\$0.00	\$0.00	\$0.00	
6/29/18	\$45.00	\$0.00	\$0.00	\$0.00	\$2.95	\$0.95	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$38.50	\$0.00	\$0.00	\$0.00	\$0.23	\$0.23	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.31	\$0.31	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$39.50	\$0.00	\$0.00	\$0.00	\$0.72	\$0.37	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.88	\$0.46	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
7/6/18	\$40.50	\$0.00	\$0.00	\$0.00	\$1.02	\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$41.00	\$0.00	\$0.00	\$0.00	\$1.00	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$41.50	\$0.00	\$0.00	\$0.00	\$1.39	\$0.66	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$42.00	\$0.00	\$0.00	\$0.00	\$1.61	\$0.79	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$43.00	\$0.00	\$0.00	\$0.00	\$1.72	\$0.87	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$43.50	\$0.00	\$0.00	\$0.00	\$1.72	\$0.64	\$0.00	\$0.00	\$0.00	\$0.00	
7/6/18	\$44.00	\$0.00	\$0.00	\$0.00	\$2.03	\$0.83	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.27	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$40.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.60	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.74	\$0.00	\$0.00	\$0.00	\$0.00	
7/13/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.70	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.04	\$0.04	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$37.50	\$0.00	\$0.00	\$0.00	\$0.45	\$0.25	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$40.00	\$0.00	\$0.00	\$0.00	\$1.10	\$0.48	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$42.50	\$0.00	\$0.00	\$0.00	\$1.64	\$0.74	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$45.00	\$0.00	\$0.00	\$0.00	\$2.66	\$1.16	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$47.50	\$0.00	\$0.00	\$0.00	\$2.73	\$1.28	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$50.00	\$0.00	\$0.00	\$0.00	\$2.69	\$1.24	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$52.50	\$0.00	\$0.00	\$0.00	\$2.78	\$1.08	\$0.00	\$0.00	\$0.00	\$0.00	
7/20/18	\$55.00	\$0.00	\$0.00	\$0.00	\$3.36	\$1.16	\$0.00	\$0.00	\$0.00	\$0.00	
7/27/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.14	\$0.00	\$0.00	\$0.00	\$0.00	
7/27/18	\$36.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.17	\$0.00	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
7/27/18	\$40.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.29	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$32.50	\$0.00	\$0.00	\$0.00	\$0.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.47	\$0.17	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$37.50	\$0.00	\$0.00	\$0.00	\$0.84	\$0.29	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$40.00	\$0.00	\$0.00	\$0.00	\$1.21	\$0.43	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$42.50	\$0.00	\$0.00	\$0.00	\$1.55	\$0.58	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$45.00	\$0.00	\$0.00	\$0.00	\$2.17	\$0.87	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$47.50	\$0.00	\$0.00	\$0.00	\$2.46	\$0.91	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$50.00	\$0.00	\$0.00	\$0.00	\$2.92	\$1.12	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$52.50	\$0.00	\$0.00	\$0.00	\$3.27	\$1.32	\$0.00	\$0.00	\$0.00	\$0.00	
9/21/18	\$55.00	\$0.00	\$0.00	\$0.00	\$3.67	\$1.32	\$0.00	\$0.00	\$0.00	\$0.00	
11/9/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.15	\$0.00	\$0.00	\$0.00	
11/9/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.46	\$0.00	\$0.00	\$0.00	
11/9/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.68	\$0.00	\$0.00	\$0.00	
11/9/18	\$42.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.67	\$0.00	\$0.00	\$0.00	
11/9/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.21	\$0.00	\$0.00	\$0.00	
11/9/18	\$43.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.53	\$0.00	\$0.00	\$0.00	
11/9/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.53	\$0.00	\$0.00	\$0.00	
11/9/18	\$44.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.30	\$0.00	\$0.00	\$0.00	
11/9/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.87	\$0.00	\$0.00	\$0.00	
11/9/18	\$45.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.90	\$0.00	\$0.00	\$0.00	
11/9/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.52	\$0.00	\$0.00	\$0.00	
11/9/18	\$46.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.40	\$0.00	\$0.00	\$0.00	
11/9/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.91	\$0.00	\$0.00	\$0.00	
11/9/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.53	\$0.00	\$0.00	\$0.00	
11/9/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.63	\$0.00	\$0.00	\$0.00	

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/9/18	\$48.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.56	\$0.00	\$0.00	\$0.00	
11/9/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.38	\$0.00	\$0.00	\$0.00	
11/9/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.66	\$0.00	\$0.00	\$0.00	
11/9/18	\$51.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.56	\$0.00	\$0.00	\$0.00	
11/16/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.15	\$0.00	\$0.00	\$6.25
11/16/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.63	\$6.83	\$0.00	\$7.00
11/16/18	\$25.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.78	\$0.00	\$0.00	\$7.55
11/16/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.05	\$7.72	\$0.00	\$7.95
11/16/18	\$26.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.20	\$0.00	\$0.00	\$8.50
11/16/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.38	\$8.70	\$0.00	\$9.00
11/16/18	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.35	\$8.99	\$0.00	\$9.35
11/16/18	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.60	\$9.53	\$0.00	\$9.95
11/16/18	\$28.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.65	\$9.87	\$0.00	\$10.35
11/16/18	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.85	\$10.31	\$0.00	\$10.85
11/16/18	\$29.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.00	\$10.82	\$0.00	\$11.45
11/16/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.95	\$11.16	\$0.00	\$11.85
11/16/18	\$30.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.10	\$11.58	\$0.00	\$12.35
11/16/18	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.25	\$12.04	\$0.00	\$12.95
11/16/18	\$31.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.25	\$12.31	\$0.00	\$13.40
11/16/18	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.35	\$12.72	\$0.00	\$13.95
11/16/18	\$32.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.25	\$13.01	\$0.00	\$14.60
11/16/18	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.35	\$13.01	\$0.00	\$14.80
11/16/18	\$33.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.25	\$13.10	\$0.00	\$15.20
11/16/18	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.00	\$13.19	\$0.00	\$15.55
11/16/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.48	\$7.60	\$13.87	\$16.26	\$16.95
11/16/18	\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.10	\$13.83	\$0.00	\$17.30

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/16/18	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.26	\$7.35	\$13.88	\$16.96	\$17.75
11/16/18	\$36.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.50	\$14.08	\$0.00	\$18.30
11/16/18	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.36	\$7.35	\$14.22	\$17.89	\$18.80
11/16/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.34	\$7.40	\$14.37	\$18.70	\$19.80
11/16/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.41	\$7.65	\$14.57	\$19.45	\$21.00
11/16/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.29	\$7.55	\$14.42	\$19.99	\$21.95
11/16/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.10	\$7.50	\$14.47	\$20.20	\$23.00
11/16/18	\$41.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.49	\$7.45	\$14.37	\$20.29	\$23.40
11/16/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.05	\$7.45	\$14.47	\$20.50	\$24.00
11/16/18	\$42.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.20	\$7.50	\$14.18	\$20.31	\$24.35
11/16/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.15	\$7.55	\$14.52	\$20.86	\$25.00
11/16/18	\$43.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.34	\$7.20	\$14.31	\$20.66	\$25.30
11/16/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.95	\$7.35	\$14.46	\$20.95	\$25.90
11/16/18	\$44.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.96	\$7.55	\$13.74	\$20.52	\$26.60
11/16/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.58	\$7.10	\$14.21	\$20.32	\$26.75
11/16/18	\$45.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.05	\$7.50	\$14.32	\$20.76	\$27.35
11/16/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.21	\$7.65	\$14.71	\$21.11	\$28.30
11/16/18	\$46.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.84	\$7.40	\$14.32	\$20.62	\$28.40
11/16/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.21	\$7.35	\$14.37	\$20.14	\$28.85
11/16/18	\$47.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.50	\$7.70	\$14.38	\$20.49	\$29.50
11/16/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.88	\$7.40	\$14.46	\$20.67	\$30.00
11/16/18	\$48.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.66	\$7.25	\$14.12	\$20.37	\$30.25
11/16/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.93	\$7.20	\$14.17	\$20.37	\$30.85
11/16/18	\$49.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.73	\$7.45	\$13.79	\$20.37	\$31.50
11/16/18	\$50.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.94	\$7.55	\$13.69	\$20.18	\$32.55
11/16/18	\$52.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28.44	\$7.50	\$14.13	\$20.85	\$34.55

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/23/18	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.03	\$0.00	\$0.00	\$5.30
11/23/18	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.48	\$0.00	\$0.00	\$6.00
11/23/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.85	\$0.00	\$0.00	\$6.65
11/23/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.35	\$7.26	\$0.00	\$7.60
11/23/18	\$25.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.93	\$0.00	\$0.00	\$7.95
11/23/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.20	\$7.93	\$0.00	\$8.40
11/23/18	\$26.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.33	\$0.00	\$0.00	\$8.95
11/23/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.80	\$8.87	\$0.00	\$9.40
11/23/18	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.30	\$9.23	\$0.00	\$9.80
11/23/18	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.65	\$9.59	\$0.00	\$10.25
11/23/18	\$28.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.10	\$9.83	\$0.00	\$10.65
11/23/18	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.45	\$10.25	\$0.00	\$11.05
11/23/18	\$29.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.65	\$9.96	\$0.00	\$11.00
11/23/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.70	\$11.13	\$0.00	\$12.15
11/23/18	\$30.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.65	\$11.27	\$0.00	\$12.45
11/23/18	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.80	\$11.54	\$0.00	\$12.90
11/23/18	\$31.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.00	\$11.94	\$0.00	\$13.50
11/23/18	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.05	\$12.30	\$0.00	\$14.00
11/23/18	\$32.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.95	\$12.47	\$0.00	\$14.45
11/23/18	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.15	\$12.79	\$0.00	\$14.95
11/23/18	\$33.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.90	\$12.97	\$0.00	\$15.35
11/23/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.75	\$7.30	\$13.69	\$16.50	\$17.05
11/23/18	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.70	\$13.72	\$0.00	\$17.80
11/23/18	\$36.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.35	\$13.93	\$0.00	\$18.40
11/23/18	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.25	\$13.83	\$0.00	\$18.85
11/23/18	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.35	\$14.22	\$0.00	\$19.95

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/23/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.40	\$13.83	\$0.00	\$20.95
11/23/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.95	\$7.15	\$14.12	\$19.40	\$21.70
11/23/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.50	\$7.30	\$14.12	\$19.40	\$22.70
11/23/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.28	\$7.00	\$14.16	\$19.46	\$23.70
11/23/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.45	\$7.15	\$14.31	\$20.33	\$25.65
11/23/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.16	\$7.00	\$14.06	\$20.32	\$26.65
11/23/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.21	\$7.35	\$14.17	\$20.75	\$27.70
11/23/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.89	\$7.00	\$14.16	\$20.79	\$28.70
11/23/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.43	\$7.55	\$14.28	\$20.76	\$29.90
11/23/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.90	\$7.20	\$14.36	\$20.52	\$30.90
11/23/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28.13	\$7.00	\$14.26	\$20.65	\$31.85
11/23/18	\$51.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.32	\$7.10	\$14.16	\$20.18	\$32.70
11/23/18	\$53.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28.30	\$7.00	\$14.06	\$20.74	\$34.60
11/30/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.40	\$7.65	\$0.00	\$8.15
11/30/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.58	\$8.45	\$0.00	\$9.10
11/30/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.60	\$9.01	\$0.00	\$9.80
11/30/18	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.15	\$9.83	\$0.00	\$10.65
11/30/18	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.05	\$9.85	\$0.00	\$10.80
11/30/18	\$28.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.25	\$10.31	\$0.00	\$11.35
11/30/18	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.50	\$10.39	\$0.00	\$11.55
11/30/18	\$29.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.55	\$10.78	\$0.00	\$11.95
11/30/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.40	\$10.83	\$0.00	\$12.25
11/30/18	\$30.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.45	\$11.02	\$0.00	\$12.60
11/30/18	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.70	\$11.51	\$0.00	\$13.25
11/30/18	\$31.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.55	\$11.49	\$0.00	\$13.40
11/30/18	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.60	\$11.73	\$0.00	\$13.85

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
11/30/18	\$32.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.65	\$11.90	\$0.00	\$14.25
11/30/18	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.60	\$12.16	\$0.00	\$14.75
11/30/18	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.55	\$12.31	\$0.00	\$15.45
11/30/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.62	\$6.95	\$13.24	\$16.25	\$17.00
11/30/18	\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.25	\$13.17	\$0.00	\$17.25
11/30/18	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.50	\$13.23	\$0.00	\$18.40
11/30/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.82	\$7.35	\$13.98	\$19.52	\$22.70
11/30/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.69	\$7.35	\$14.03	\$19.80	\$23.90
11/30/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.68	\$7.00	\$14.35	\$20.56	\$25.75
11/30/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.34	\$7.65	\$14.33	\$20.63	\$26.85
11/30/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.31	\$7.35	\$14.46	\$20.95	\$28.10
11/30/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.10	\$7.25	\$14.17	\$20.61	\$29.80
12/7/18	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.65	\$4.79	\$0.00	\$5.05
12/7/18	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.13	\$5.43	\$0.00	\$5.75
12/7/18	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.43	\$5.92	\$0.00	\$6.30
12/7/18	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.60	\$6.37	\$0.00	\$6.85
12/7/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.05	\$7.06	\$0.00	\$7.65
12/7/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.50	\$7.82	\$0.00	\$8.50
12/7/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.95	\$8.56	\$0.00	\$9.40
12/7/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.20	\$9.27	\$0.00	\$10.25
12/7/18	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.15	\$9.42	\$0.00	\$10.50
12/7/18	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.05	\$9.49	\$0.00	\$10.70
12/7/18	\$28.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.05	\$9.73	\$0.00	\$11.05
12/7/18	\$29.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.80	\$10.77	\$0.00	\$12.35
12/7/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.85	\$11.06	\$0.00	\$12.80
12/7/18	\$30.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.05	\$11.53	\$0.00	\$13.40

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
12/7/18	\$31.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.20	\$11.99	\$0.00	\$14.25
12/7/18	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.75	\$11.64	\$0.00	\$14.10
12/7/18	\$33.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.80	\$12.24	\$0.00	\$15.40
12/7/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.56	\$6.80	\$12.85	\$16.07	\$16.90
12/7/18	\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.85	\$13.04	\$0.00	\$17.30
12/7/18	\$36.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.30	\$13.27	\$0.00	\$18.35
12/7/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.46	\$7.60	\$14.13	\$19.48	\$22.00
12/7/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.31	\$7.50	\$14.32	\$19.86	\$23.00
12/7/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.64	\$7.65	\$14.33	\$20.06	\$24.90
12/7/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.51	\$6.80	\$14.11	\$20.36	\$25.75
12/7/18	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.12	\$7.25	\$14.17	\$20.33	\$26.70
12/7/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.76	\$7.30	\$14.22	\$20.47	\$27.80
12/7/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.95	\$7.15	\$13.68	\$20.17	\$28.75
12/7/18	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.66	\$7.00	\$14.21	\$20.74	\$31.75
12/14/18	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.78	\$4.79	\$0.00	\$5.20
12/14/18	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.98	\$5.23	\$0.00	\$5.70
12/14/18	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.25	\$5.73	\$0.00	\$6.25
12/14/18	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.60	\$6.27	\$0.00	\$6.90
12/14/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00	\$6.91	\$0.00	\$7.65
12/14/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.55	\$7.68	\$0.00	\$8.50
12/14/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.70	\$8.26	\$0.00	\$9.25
12/14/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.00	\$8.90	\$0.00	\$10.05
12/14/18	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.20	\$9.30	\$0.00	\$10.55
12/14/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.45	\$10.73	\$0.00	\$12.55
12/14/18	\$31.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.75	\$11.39	\$0.00	\$14.00
12/14/18	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.40	\$12.53	\$0.00	\$15.75

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
12/14/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.35	\$12.69	\$0.00	\$17.05
12/14/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.89	\$7.25	\$14.02	\$19.75	\$23.90
12/14/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.74	\$7.55	\$14.18	\$20.52	\$27.75
12/14/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.24	\$7.20	\$14.12	\$20.51	\$28.75
12/21/18	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.60	\$4.83	\$0.00	\$5.25
12/21/18	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.18	\$5.65	\$0.00	\$6.10
12/21/18	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.25	\$5.97	\$0.00	\$6.50
12/21/18	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.80	\$6.69	\$0.00	\$7.35
12/21/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.08	\$7.23	\$0.00	\$8.00
12/21/18	\$25.00	\$0.00	\$0.00	\$0.00	\$8.51	\$8.51	\$8.51	\$5.40	\$7.82	\$8.46	\$8.70
12/21/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.33	\$5.65	\$8.41	\$9.26	\$9.45
12/21/18	\$27.50	\$0.00	\$0.00	\$0.00	\$10.50	\$10.50	\$10.50	\$6.00	\$9.29	\$10.40	\$10.65
12/21/18	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.74	\$6.40	\$10.15	\$11.64	\$11.90
12/21/18	\$30.00	\$0.00	\$0.00	\$0.00	\$12.80	\$12.80	\$12.74	\$6.70	\$10.86	\$12.59	\$12.95
12/21/18	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.38	\$6.70	\$11.15	\$13.21	\$13.60
12/21/18	\$32.50	\$0.00	\$0.00	\$0.00	\$14.77	\$14.77	\$14.67	\$6.90	\$11.79	\$14.34	\$14.90
12/21/18	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.14	\$7.10	\$12.52	\$15.64	\$16.30
12/21/18	\$35.00	\$0.00	\$0.00	\$0.00	\$17.10	\$17.10	\$16.93	\$7.05	\$12.81	\$16.29	\$17.25
12/21/18	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.85	\$7.10	\$13.10	\$16.98	\$18.10
12/21/18	\$37.50	\$0.00	\$0.00	\$0.00	\$19.53	\$19.43	\$19.23	\$7.25	\$13.54	\$17.99	\$19.65
12/21/18	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.61	\$7.25	\$13.83	\$18.80	\$21.10
12/21/18	\$40.00	\$0.00	\$0.00	\$0.00	\$22.12	\$21.60	\$21.31	\$7.20	\$13.97	\$19.11	\$22.10
12/21/18	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.02	\$7.35	\$13.88	\$19.42	\$22.90
12/21/18	\$42.50	\$0.00	\$0.00	\$0.00	\$24.60	\$23.95	\$23.58	\$7.60	\$14.37	\$20.29	\$24.65
12/21/18	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.42	\$7.50	\$14.27	\$20.19	\$25.95
12/21/18	\$45.00	\$0.00	\$0.00	\$0.00	\$27.24	\$26.39	\$25.90	\$7.80	\$14.72	\$21.25	\$27.35

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
12/21/18	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.39	\$7.80	\$14.57	\$21.20	\$28.40
12/21/18	\$47.50	\$0.00	\$0.00	\$0.00	\$28.39	\$27.29	\$26.59	\$7.35	\$14.46	\$20.81	\$29.50
12/21/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.14	\$7.40	\$14.37	\$20.57	\$30.90
12/21/18	\$50.00	\$0.00	\$0.00	\$0.00	\$29.93	\$28.43	\$27.76	\$7.45	\$14.56	\$21.15	\$32.05
12/21/18	\$52.50	\$0.00	\$0.00	\$0.00	\$30.52	\$29.47	\$28.03	\$7.30	\$14.22	\$20.52	\$34.30
12/21/18	\$55.00	\$0.00	\$0.00	\$0.00	\$30.99	\$29.64	\$28.40	\$7.60	\$14.47	\$21.34	\$37.00
12/28/18	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.50	\$4.88	\$0.00	\$5.35
12/28/18	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.05	\$5.53	\$0.00	\$6.05
12/28/18	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.35	\$6.09	\$0.00	\$6.70
12/28/18	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.80	\$6.69	\$0.00	\$7.40
12/28/18	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.15	\$7.28	\$0.00	\$8.10
12/28/18	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.40	\$7.75	\$0.00	\$8.75
12/28/18	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.70	\$8.43	\$0.00	\$9.55
12/28/18	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.25	\$9.35	\$0.00	\$10.60
12/28/18	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.10	\$9.32	\$0.00	\$10.75
12/28/18	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.40	\$10.66	\$0.00	\$12.75
12/28/18	\$32.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.95	\$11.93	\$0.00	\$15.15
12/28/18	\$33.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.85	\$12.22	\$0.00	\$15.90
12/28/18	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.00	\$13.10	\$0.00	\$17.60
12/28/18	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.75	\$13.72	\$0.00	\$21.85
12/28/18	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.88	\$7.55	\$14.03	\$19.76	\$24.00
12/28/18	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.28	\$7.00	\$13.77	\$19.65	\$24.70
12/28/18	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.10	\$7.35	\$14.17	\$20.47	\$28.75
12/28/18	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.19	\$7.05	\$13.78	\$20.17	\$29.40
12/28/18	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.05	\$7.30	\$14.17	\$20.80	\$30.65
1/18/19	\$16.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.40	\$0.00	\$0.00	\$3.80

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
1/18/19	\$17.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.83	\$3.87	\$0.00	\$4.30
1/18/19	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.68	\$4.01	\$0.00	\$4.55
1/18/19	\$19.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.05	\$4.79	\$0.00	\$5.25
1/18/19	\$20.00	\$0.00	\$0.00	\$0.00	\$5.72	\$5.72	\$5.72	\$3.60	\$5.32	\$5.63	\$5.85
1/18/19	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.44	\$4.08	\$5.87	\$6.34	\$6.55
1/18/19	\$22.50	\$0.00	\$0.00	\$0.00	\$7.31	\$7.31	\$7.31	\$4.80	\$6.71	\$7.21	\$7.50
1/18/19	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.54	\$5.18	\$7.52	\$8.45	\$8.55
1/18/19	\$25.00	\$0.00	\$0.00	\$0.00	\$9.06	\$8.96	\$8.96	\$5.20	\$8.05	\$8.86	\$9.25
1/18/19	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.91	\$5.70	\$8.58	\$9.81	\$10.00
1/18/19	\$27.50	\$0.00	\$0.00	\$0.00	\$10.91	\$10.89	\$10.89	\$6.10	\$9.41	\$10.76	\$11.25
1/18/19	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.26	\$6.30	\$10.22	\$12.09	\$12.50
1/18/19	\$30.00	\$0.00	\$0.00	\$13.45	\$12.94	\$12.79	\$12.79	\$6.25	\$10.56	\$12.55	\$13.20
1/18/19	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.79	\$6.70	\$11.08	\$13.45	\$14.10
1/18/19	\$32.50	\$0.00	\$0.00	\$0.00	\$15.00	\$15.00	\$15.00	\$6.85	\$11.69	\$14.53	\$15.45
1/18/19	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.07	\$7.00	\$12.18	\$15.33	\$16.70
1/18/19	\$35.00	\$0.00	\$0.00	\$18.28	\$17.48	\$17.23	\$17.11	\$7.15	\$12.47	\$16.14	\$17.55
1/18/19	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.90	\$7.00	\$12.81	\$16.76	\$18.45
1/18/19	\$37.50	\$0.00	\$0.00	\$0.00	\$19.22	\$19.17	\$18.96	\$7.10	\$13.10	\$17.46	\$19.85
1/18/19	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.15	\$7.15	\$13.34	\$18.17	\$21.15
1/18/19	\$40.00	\$0.00	\$0.00	\$23.38	\$22.00	\$21.32	\$20.95	\$7.15	\$13.34	\$18.48	\$22.05
1/18/19	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.06	\$6.75	\$12.89	\$18.34	\$22.65
1/18/19	\$42.50	\$0.00	\$0.00	\$0.00	\$23.90	\$23.10	\$22.61	\$7.35	\$13.54	\$19.27	\$24.45
1/18/19	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.87	\$7.30	\$13.73	\$19.89	\$25.80
1/18/19	\$45.00	\$0.00	\$0.00	\$28.55	\$26.52	\$25.67	\$25.25	\$7.10	\$14.21	\$20.51	\$26.95
1/18/19	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.04	\$7.45	\$14.03	\$20.00	\$27.80
1/18/19	\$47.50	\$0.00	\$0.00	\$0.00	\$28.63	\$27.33	\$26.58	\$7.50	\$14.52	\$21.00	\$29.50

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
1/18/19	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.37	\$7.40	\$13.98	\$20.37	\$30.90
1/18/19	\$50.00	\$0.00	\$0.00	\$31.93	\$28.64	\$27.29	\$26.55	\$7.30	\$13.83	\$20.23	\$31.90
1/18/19	\$52.50	\$0.00	\$0.00	\$0.00	\$29.45	\$28.55	\$27.22	\$7.15	\$13.78	\$20.41	\$34.15
1/18/19	\$55.00	\$0.00	\$0.00	\$34.72	\$30.56	\$28.76	\$27.76	\$7.50	\$14.03	\$20.90	\$36.90
1/18/19	\$60.00	\$0.00	\$0.00	\$35.03	\$30.29	\$29.09	\$27.80	\$7.20	\$13.83	\$20.79	\$41.95
1/18/19	\$65.00	\$0.00	\$0.00	\$36.97	\$32.18	\$29.48	\$28.20	\$7.15	\$13.88	\$20.79	\$46.75
3/15/19	\$16.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.68	\$0.00	\$0.00	\$4.20
3/15/19	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.85	\$4.69	\$0.00	\$5.25
3/15/19	\$19.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.03	\$4.91	\$0.00	\$5.70
3/15/19	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.83	\$5.62	\$0.00	\$6.50
3/15/19	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.82	\$4.10	\$6.08	\$6.72	\$6.95
3/15/19	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.53	\$4.53	\$6.58	\$7.46	\$7.85
3/15/19	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.29	\$4.95	\$7.27	\$8.24	\$8.65
3/15/19	\$24.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.85	\$5.10	\$7.59	\$8.68	\$9.10
3/15/19	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.16	\$6.10	\$8.81	\$10.06	\$10.55
3/15/19	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.39	\$5.75	\$8.65	\$10.24	\$10.70
3/15/19	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.16	\$5.80	\$9.19	\$10.96	\$11.30
3/15/19	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.51	\$6.00	\$9.44	\$11.26	\$12.05
3/15/19	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.21	\$6.05	\$9.90	\$11.91	\$12.85
3/15/19	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.22	\$6.25	\$10.41	\$12.85	\$13.65
3/15/19	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14.22	\$6.60	\$11.00	\$13.73	\$14.65
3/15/19	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14.84	\$6.60	\$11.20	\$14.25	\$15.35
3/15/19	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.82	\$6.90	\$11.69	\$15.10	\$16.35
3/15/19	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.54	\$6.80	\$12.03	\$15.60	\$17.20
3/15/19	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.13	\$7.10	\$12.33	\$16.07	\$18.10
3/15/19	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.26	\$7.20	\$12.67	\$16.98	\$19.00

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
3/15/19	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.69	\$7.15	\$12.57	\$17.14	\$19.70
3/15/19	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.79	\$7.30	\$13.01	\$17.96	\$20.75
3/15/19	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.97	\$7.05	\$12.76	\$17.85	\$21.40
3/15/19	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.12	\$7.05	\$13.29	\$18.55	\$22.40
3/15/19	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.77	\$7.05	\$13.29	\$18.88	\$23.25
3/15/19	\$42.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.69	\$6.75	\$12.89	\$18.53	\$23.90
3/15/19	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.61	\$6.55	\$13.28	\$19.05	\$25.05
3/15/19	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.35	\$7.10	\$13.39	\$19.50	\$26.00
3/15/19	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.00	\$6.90	\$13.43	\$19.87	\$26.70
3/15/19	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.99	\$7.50	\$13.98	\$20.38	\$28.30
3/15/19	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.93	\$7.35	\$13.74	\$20.04	\$28.80
3/15/19	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.57	\$7.25	\$13.64	\$20.36	\$29.80
3/15/19	\$49.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.55	\$7.25	\$13.20	\$20.02	\$30.80
3/15/19	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.77	\$7.50	\$13.55	\$19.99	\$32.10
3/15/19	\$52.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.97	\$7.65	\$14.04	\$21.09	\$34.40
3/15/19	\$55.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.76	\$7.50	\$14.03	\$20.90	\$36.90
3/15/19	\$57.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.77	\$7.25	\$13.98	\$20.51	\$39.40
3/15/19	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28.00	\$7.00	\$13.97	\$20.64	\$41.70
6/21/19	\$16.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.63	\$0.00	\$0.00	\$4.50
6/21/19	\$17.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.78	\$4.64	\$0.00	\$5.15
6/21/19	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.10	\$5.20	\$0.00	\$5.85
6/21/19	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.45	\$5.89	\$0.00	\$6.80
6/21/19	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.05	\$6.37	\$0.00	\$7.40
6/21/19	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.40	\$7.01	\$0.00	\$8.20
6/21/19	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.60	\$7.31	\$0.00	\$8.75
6/21/19	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00	\$8.22	\$0.00	\$10.15

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
6/21/19	\$26.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00	\$8.63	\$0.00	\$10.80
6/21/19	\$27.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11.30	\$5.50	\$9.27	\$11.03	\$11.80
6/21/19	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.05	\$5.75	\$9.52	\$11.68	\$12.40
6/21/19	\$29.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.71	\$6.05	\$9.97	\$12.27	\$13.25
6/21/19	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.33	\$5.90	\$10.25	\$12.84	\$13.95
6/21/19	\$31.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14.01	\$5.95	\$10.74	\$13.39	\$14.85
6/21/19	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14.95	\$6.05	\$11.08	\$14.23	\$15.65
6/21/19	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.60	\$6.10	\$11.42	\$14.71	\$16.50
6/21/19	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.41	\$6.45	\$11.77	\$15.28	\$17.40
6/21/19	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17.43	\$6.65	\$12.31	\$16.10	\$18.50
6/21/19	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.36	\$7.15	\$12.62	\$16.90	\$19.35
6/21/19	\$37.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.89	\$7.00	\$12.76	\$17.21	\$20.15
6/21/19	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.83	\$7.10	\$13.05	\$17.91	\$21.10
6/21/19	\$39.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.20	\$7.05	\$13.05	\$17.97	\$21.75
6/21/19	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.02	\$6.95	\$13.48	\$18.50	\$22.90
6/21/19	\$41.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.73	\$7.20	\$13.54	\$18.84	\$23.65
6/21/19	\$43.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.64	\$7.30	\$13.73	\$19.18	\$25.45
6/21/19	\$44.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.66	\$7.65	\$14.04	\$19.86	\$26.55
6/21/19	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.04	\$7.15	\$13.83	\$19.94	\$27.20
6/21/19	\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.19	\$6.60	\$13.76	\$19.82	\$28.05
6/21/19	\$48.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.59	\$7.05	\$14.26	\$20.61	\$30.25
6/21/19	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.05	\$7.30	\$14.03	\$20.47	\$31.85
1/17/20	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.30	\$0.00	\$0.00	\$6.55
1/17/20	\$20.00	\$0.00	\$0.00	\$0.00	\$7.33	\$7.23	\$7.21	\$3.70	\$6.39	\$7.21	\$7.90
1/17/20	\$22.50	\$0.00	\$0.00	\$0.00	\$9.81	\$8.86	\$8.76	\$3.85	\$7.33	\$8.68	\$9.35
1/17/20	\$25.00	\$0.00	\$0.00	\$0.00	\$10.58	\$10.28	\$10.28	\$5.30	\$8.86	\$10.13	\$11.45

Expiration Date	Strike Price	Put Option Artificial Deflation Per Share During Trading Periods									Holding Price
		4/29/2015 through 10/11/2017	10/12/2017	10/13/2017 through 12/20/2017	12/21/2017 through 05/28/2018	05/29/2018 through 06/10/2018	06/11/2018 through 11/08/2018	11/09/2018 through 11/11/2018	11/12/2018 through 11/13/2018	11/14/2018 through 11/15/2018	
1/17/20	\$27.50	\$0.00	\$0.00	\$0.00	\$11.64	\$11.19	\$11.19	\$5.25	\$9.07	\$10.90	\$13.10
1/17/20	\$30.00	\$0.00	\$0.00	\$14.34	\$14.08	\$13.78	\$13.49	\$5.55	\$10.44	\$13.02	\$14.85
1/17/20	\$32.50	\$0.00	\$0.00	\$0.00	\$15.28	\$15.28	\$15.20	\$5.90	\$10.69	\$14.41	\$16.80
1/17/20	\$35.00	\$0.00	\$0.00	\$17.16	\$16.58	\$16.58	\$16.48	\$6.25	\$11.33	\$15.12	\$19.05
1/17/20	\$37.50	\$0.00	\$0.00	\$0.00	\$19.11	\$18.51	\$17.84	\$6.55	\$11.73	\$15.94	\$21.05
1/17/20	\$40.00	\$0.00	\$0.00	\$21.55	\$20.68	\$20.43	\$19.98	\$7.05	\$12.42	\$17.01	\$23.50
1/17/20	\$42.50	\$0.00	\$0.00	\$0.00	\$22.24	\$21.64	\$21.15	\$6.80	\$12.75	\$17.91	\$25.55
1/17/20	\$45.00	\$0.00	\$0.00	\$25.71	\$23.67	\$23.02	\$22.44	\$7.10	\$13.00	\$18.59	\$27.70
1/17/20	\$47.50	\$0.00	\$0.00	\$0.00	\$25.80	\$24.95	\$24.09	\$7.10	\$14.12	\$20.04	\$29.85
1/17/20	\$50.00	\$0.00	\$0.00	\$28.62	\$26.54	\$25.34	\$25.05	\$7.20	\$14.36	\$20.71	\$32.40
1/17/20	\$52.50	\$0.00	\$0.00	\$0.00	\$26.84	\$26.09	\$25.47	\$7.40	\$13.83	\$20.13	\$34.70
1/17/20	\$55.00	\$0.00	\$0.00	\$32.84	\$29.60	\$27.75	\$26.92	\$7.15	\$14.26	\$20.75	\$37.05
1/17/20	\$60.00	\$0.00	\$0.00	\$33.15	\$30.01	\$29.36	\$27.87	\$7.50	\$14.32	\$20.95	\$41.85
1/15/21	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.65	\$0.00	\$0.00	\$7.00
1/15/21	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.28	\$5.62	\$0.00	\$7.45
1/15/21	\$23.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.55	\$3.45	\$6.93	\$9.55
1/15/21	\$25.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.88	\$4.15	\$8.29	\$11.50
1/15/21	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.64	\$5.05	\$10.13	\$15.20
1/15/21	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.30	\$5.40	\$10.72	\$17.40
1/15/21	\$35.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16.65	\$5.90	\$11.32	\$19.00
1/15/21	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.75	\$6.05	\$12.15	\$21.65
1/15/21	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.48	\$6.30	\$13.61	\$23.40
1/15/21	\$45.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.43	\$6.65	\$13.67	\$27.85
1/15/21	\$47.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.82	\$7.00	\$13.68	\$29.50
1/15/21	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.96	\$6.75	\$14.35	\$32.70
1/15/21	\$55.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.03	\$6.70	\$14.20	\$37.05

TABLE 9

**PG&E Securities Act Notes
Issue Dates, Issue Prices, and Closing Prices on Date of Suit**

CUSIP	Description	Issue Date	Issue Price	Closing Price on February 22, 2019
694308HP5	2.95% Notes due March 1, 2026	3/1/2016	\$997.34	\$801.90
694308HQ3	1.51778% Notes Due November 30, 2017	12/1/2016	\$1,000.00	N/A
694308HR1	4.00% Notes Due December 1, 2046	12/1/2016	\$981.64	\$780.00
694308HS9	3.30% Notes Due March 15, 2027	3/10/2017	\$996.45	\$825.00
694308HW0	3.30% Notes Due December 1, 2027	5/15/2018	\$997.04	\$832.50
694308HU4	2.54138 % Notes Due November 28, 2018	5/15/2018	\$1,000.00	N/A
694308HY6	3.95% Notes Due December 1, 2047	5/15/2018	\$995.64	\$775.00