

GRAN TIERRA ENERGY INC.

Company Announcement – Transaction in Own Shares

July 30, 2019

On March 11, 2019 Gran Tierra Energy Inc. (“Gran Tierra”) announced a normal course issuer bid (the “NCIB”) through the facilities of the Toronto Stock Exchange (“TSX”) and eligible alternative trading platforms in Canada. The Company received regulatory approval from the TSX to commence the 2019 NCIB on March 13, 2019. Pursuant to the NCIB, Gran Tierra may purchase for cancellation up to 19,353,951 of its shares of common stock for a one year period at prevailing market prices at the time of purchase. The NCIB commenced on March 13, 2019 and will expire on March 12, 2020 or earlier if the 5.00% share maximum is reached. The purpose of the NCIB is to reduce the share capital of Gran Tierra.

The following transactions were made under the NCIB during the period July 22, 2019 to July 26, 2019:

Transaction Date	Daily total volume (# Shares)	Daily volume weighted average price of shares acquired (CAD)	Gross Value (CAD)
July 22, 2019	167,525	\$2.10	\$352,181.00
July 23, 2019	167,525	\$2.14	\$358,036.50
July 24, 2019	167,525	\$2.19	\$366,746.00
July 25, 2019	167,525	\$2.09	\$349,609.25
July 26, 2019	167,500	\$2.09	\$350,603.50

Exchange Aggregated Data

	Platform	Jul. 22, 2019	Jul. 23, 2019	Jul. 24, 2019	Jul. 25, 2019	Jul. 26, 2019
Volume	TSX	75,925	61,925	85,125	97,225	75,700
	Pure	14,300	17,900	24,600	1,400	10,700
	Chi-X	34,700	11,000	28,200	6,400	32,600
	Omega	0	5,600	1,500	2,000	0
	Alpha	0	0	800	0	300
	NEO	42,600	71,100	27,300	60,500	48,200
Volume weighted average price (CAD)	TSX	\$2.10	\$2.13	\$2.19	\$2.09	\$2.09
	Pure	\$2.11	\$2.15	\$2.19	\$2.06	\$2.10
	Chi-X	\$2.10	\$2.15	\$2.20	\$2.10	\$2.09
	Omega	-	\$2.14	\$2.17	\$2.08	-
	Alpha	-	-	\$2.16	-	\$2.09
	NEO	\$2.10	\$2.13	\$2.19	\$2.09	\$2.09

All transactions were made under ISIN US38500T1016 and effected by RBC Dominion Securities Inc. on behalf of Gran Tierra. A full breakdown of the individual trades is attached to this announcement.

Contact Information:

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Chief Executive Officer

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Chief Financial Officer

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Date	Transaction Time	Time Zone	Volume	Price	Currency	Platform
July 22, 2019	09:32:56	EDT	100	2.1	CAD	NEO
July 22, 2019	09:32:56	EDT	300	2.1	CAD	Pure
July 22, 2019	09:32:56	EDT	500	2.1	CAD	Pure
July 22, 2019	09:33:59	EDT	1000	2.11	CAD	TSX
July 22, 2019	09:33:59	EDT	100	2.11	CAD	TSX
July 22, 2019	09:35:04	EDT	600	2.11	CAD	TSX
July 22, 2019	09:39:47	EDT	100	2.13	CAD	TSX
July 22, 2019	09:39:47	EDT	400	2.13	CAD	TSX
July 22, 2019	09:39:47	EDT	100	2.13	CAD	TSX
July 22, 2019	09:39:47	EDT	1000	2.13	CAD	TSX
July 22, 2019	09:40:16	EDT	1200	2.13	CAD	TSX
July 22, 2019	09:40:16	EDT	2300	2.13	CAD	TSX
July 22, 2019	09:40:16	EDT	1300	2.13	CAD	NEO
July 22, 2019	09:40:16	EDT	2300	2.13	CAD	NEO
July 22, 2019	09:43:48	EDT	100	2.12	CAD	TSX
July 22, 2019	09:44:05	EDT	200	2.12	CAD	NEO
July 22, 2019	09:44:05	EDT	200	2.12	CAD	TSX
July 22, 2019	09:44:05	EDT	100	2.12	CAD	NEO
July 22, 2019	09:44:05	EDT	600	2.12	CAD	TSX
July 22, 2019	09:44:05	EDT	100	2.12	CAD	TSX
July 22, 2019	09:44:05	EDT	700	2.12	CAD	NEO
July 22, 2019	09:44:05	EDT	100	2.12	CAD	NEO
July 22, 2019	09:48:50	EDT	700	2.13	CAD	Pure
July 22, 2019	09:48:50	EDT	400	2.13	CAD	Pure
July 22, 2019	09:51:56	EDT	200	2.14	CAD	TSX
July 22, 2019	09:51:56	EDT	900	2.14	CAD	Chi-X
July 22, 2019	09:51:56	EDT	900	2.14	CAD	Chi-X
July 22, 2019	09:52:58	EDT	1000	2.14	CAD	Chi-X
July 22, 2019	09:55:00	EDT	700	2.14	CAD	Pure
July 22, 2019	09:55:00	EDT	400	2.14	CAD	Pure
July 22, 2019	09:56:08	EDT	1600	2.13	CAD	TSX
July 22, 2019	09:56:08	EDT	200	2.13	CAD	NEO
July 22, 2019	09:56:08	EDT	1600	2.13	CAD	NEO
July 22, 2019	09:56:08	EDT	100	2.13	CAD	TSX
July 22, 2019	09:59:01	EDT	900	2.12	CAD	TSX
July 22, 2019	09:59:01	EDT	200	2.12	CAD	NEO
July 22, 2019	09:59:01	EDT	100	2.12	CAD	TSX
July 22, 2019	09:59:01	EDT	800	2.12	CAD	NEO
July 22, 2019	10:03:39	EDT	700	2.11	CAD	NEO
July 22, 2019	10:03:39	EDT	300	2.11	CAD	NEO
July 22, 2019	10:03:43	EDT	400	2.11	CAD	TSX
July 22, 2019	10:03:43	EDT	300	2.11	CAD	TSX
July 22, 2019	10:03:43	EDT	200	2.11	CAD	TSX
July 22, 2019	10:03:43	EDT	100	2.11	CAD	TSX
July 22, 2019	10:10:07	EDT	2300	2.1	CAD	TSX
July 22, 2019	10:10:07	EDT	1500	2.1	CAD	NEO
July 22, 2019	10:10:07	EDT	200	2.1	CAD	TSX

July 22, 2019	10:10:07	EDT	700	2.1	CAD	NEO
July 22, 2019	10:10:07	EDT	300	2.1	CAD	NEO
July 22, 2019	10:20:51	EDT	100	2.105	CAD	Chi-X
July 22, 2019	10:20:51	EDT	900	2.11	CAD	Chi-X
July 22, 2019	10:20:51	EDT	100	2.105	CAD	Chi-X
July 22, 2019	10:22:53	EDT	800	2.11	CAD	Chi-X
July 22, 2019	10:31:14	EDT	2000	2.105	CAD	Chi-X
July 22, 2019	10:31:14	EDT	400	2.11	CAD	Chi-X
July 22, 2019	10:31:14	EDT	1000	2.11	CAD	Pure
July 22, 2019	10:31:14	EDT	1300	2.11	CAD	Chi-X
July 22, 2019	10:33:59	EDT	2200	2.1	CAD	NEO
July 22, 2019	10:33:59	EDT	200	2.1	CAD	NEO
July 22, 2019	10:33:59	EDT	100	2.1	CAD	NEO
July 22, 2019	10:33:59	EDT	2400	2.1	CAD	TSX
July 22, 2019	10:46:03	EDT	200	2.09	CAD	NEO
July 22, 2019	10:46:03	EDT	500	2.09	CAD	NEO
July 22, 2019	10:46:03	EDT	700	2.09	CAD	NEO
July 22, 2019	10:46:03	EDT	300	2.09	CAD	NEO
July 22, 2019	10:46:26	EDT	100	2.09	CAD	NEO
July 22, 2019	10:46:34	EDT	600	2.09	CAD	NEO
July 22, 2019	10:46:35	EDT	100	2.09	CAD	NEO
July 22, 2019	10:46:40	EDT	1000	2.09	CAD	NEO
July 22, 2019	10:46:40	EDT	300	2.09	CAD	TSX
July 22, 2019	10:46:40	EDT	700	2.09	CAD	NEO
July 22, 2019	10:46:40	EDT	2700	2.09	CAD	TSX
July 22, 2019	10:46:40	EDT	800	2.09	CAD	TSX
July 22, 2019	10:56:34	EDT	500	2.09	CAD	TSX
July 22, 2019	10:56:34	EDT	1000	2.09	CAD	TSX
July 22, 2019	10:56:34	EDT	700	2.09	CAD	TSX
July 22, 2019	10:56:34	EDT	1100	2.09	CAD	TSX
July 22, 2019	10:58:35	EDT	500	2.09	CAD	TSX
July 22, 2019	10:58:35	EDT	300	2.09	CAD	TSX
July 22, 2019	11:01:37	EDT	500	2.09	CAD	TSX
July 22, 2019	11:01:37	EDT	200	2.09	CAD	TSX
July 22, 2019	11:01:37	EDT	500	2.09	CAD	TSX
July 22, 2019	11:01:37	EDT	100	2.09	CAD	TSX
July 22, 2019	11:04:41	EDT	500	2.09	CAD	TSX
July 22, 2019	11:04:41	EDT	400	2.09	CAD	TSX
July 22, 2019	11:04:41	EDT	100	2.09	CAD	TSX
July 22, 2019	11:04:41	EDT	300	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	500	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	100	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	100	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	1000	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	100	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	100	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	1100	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	100	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	100	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	200	2.09	CAD	TSX

July 22, 2019	11:10:58	EDT	1000	2.09	CAD	TSX
July 22, 2019	11:10:58	EDT	300	2.09	CAD	TSX
July 22, 2019	11:13:01	EDT	500	2.09	CAD	TSX
July 22, 2019	11:13:01	EDT	600	2.09	CAD	TSX
July 22, 2019	11:16:07	EDT	500	2.09	CAD	TSX
July 22, 2019	11:16:07	EDT	100	2.09	CAD	TSX
July 22, 2019	11:16:07	EDT	1100	2.09	CAD	TSX
July 22, 2019	11:16:07	EDT	400	2.09	CAD	TSX
July 22, 2019	11:18:09	EDT	100	2.09	CAD	TSX
July 22, 2019	11:18:09	EDT	100	2.09	CAD	TSX
July 22, 2019	11:18:09	EDT	100	2.09	CAD	TSX
July 22, 2019	11:18:09	EDT	500	2.09	CAD	TSX
July 22, 2019	11:18:09	EDT	100	2.09	CAD	TSX
July 22, 2019	11:18:09	EDT	100	2.09	CAD	TSX
July 22, 2019	11:20:12	EDT	500	2.09	CAD	TSX
July 22, 2019	11:20:12	EDT	100	2.09	CAD	TSX
July 22, 2019	11:20:12	EDT	900	2.09	CAD	TSX
July 22, 2019	11:20:12	EDT	100	2.09	CAD	TSX
July 22, 2019	11:21:14	EDT	100	2.09	CAD	NEO
July 22, 2019	11:21:14	EDT	1000	2.09	CAD	Pure
July 22, 2019	11:23:16	EDT	1700	2.1	CAD	Chi-X
July 22, 2019	11:23:16	EDT	100	2.1	CAD	Chi-X
July 22, 2019	11:28:24	EDT	700	2.1	CAD	Chi-X
July 22, 2019	11:28:24	EDT	100	2.1	CAD	Pure
July 22, 2019	11:28:24	EDT	1500	2.1	CAD	Pure
July 22, 2019	11:31:25	EDT	900	2.1	CAD	NEO
July 22, 2019	11:31:25	EDT	100	2.1	CAD	Pure
July 22, 2019	11:36:32	EDT	1000	2.105	CAD	Chi-X
July 22, 2019	11:36:32	EDT	700	2.11	CAD	Chi-X
July 22, 2019	11:37:36	EDT	1200	2.11	CAD	Pure
July 22, 2019	11:38:38	EDT	700	2.11	CAD	TSX
July 22, 2019	11:38:38	EDT	100	2.105	CAD	TSX
July 22, 2019	11:38:38	EDT	100	2.11	CAD	TSX
July 22, 2019	11:38:38	EDT	100	2.11	CAD	TSX
July 22, 2019	11:38:38	EDT	100	2.11	CAD	TSX
July 22, 2019	11:38:38	EDT	100	2.11	CAD	TSX
July 22, 2019	11:39:45	EDT	1600	2.11	CAD	NEO
July 22, 2019	11:39:45	EDT	200	2.11	CAD	NEO
July 22, 2019	11:39:45	EDT	600	2.11	CAD	TSX
July 22, 2019	11:39:45	EDT	100	2.11	CAD	TSX
July 22, 2019	11:39:45	EDT	200	2.11	CAD	TSX
July 22, 2019	11:39:45	EDT	100	2.11	CAD	TSX
July 22, 2019	11:39:45	EDT	600	2.11	CAD	TSX
July 22, 2019	11:39:53	EDT	100	2.11	CAD	TSX
July 22, 2019	12:08:36	EDT	100	2.1	CAD	TSX
July 22, 2019	12:09:07	EDT	100	2.1	CAD	TSX
July 22, 2019	12:09:38	EDT	100	2.1	CAD	TSX
July 22, 2019	12:10:10	EDT	100	2.1	CAD	TSX
July 22, 2019	12:10:56	EDT	100	2.1	CAD	NEO
July 22, 2019	12:11:14	EDT	100	2.1	CAD	TSX
July 22, 2019	12:11:52	EDT	2800	2.1	CAD	TSX

July 22, 2019	12:12:05	EDT	2800	2.1	CAD	NEO
July 22, 2019	12:12:05	EDT	600	2.1	CAD	TSX
July 22, 2019	12:12:05	EDT	200	2.1	CAD	NEO
July 22, 2019	12:12:05	EDT	1600	2.1	CAD	NEO
July 22, 2019	12:12:05	EDT	2200	2.1	CAD	TSX
July 22, 2019	12:12:05	EDT	400	2.1	CAD	NEO
July 22, 2019	12:12:05	EDT	200	2.1	CAD	NEO
July 22, 2019	12:12:05	EDT	400	2.1	CAD	NEO
July 22, 2019	12:12:05	EDT	400	2.1	CAD	NEO
July 22, 2019	12:12:05	EDT	200	2.1	CAD	NEO
July 22, 2019	12:12:06	EDT	200	2.1	CAD	NEO
July 22, 2019	12:12:12	EDT	100	2.1	CAD	TSX
July 22, 2019	12:12:12	EDT	200	2.1	CAD	TSX
July 22, 2019	12:12:17	EDT	100	2.1	CAD	NEO
July 22, 2019	12:12:19	EDT	100	2.1	CAD	NEO
July 22, 2019	12:14:33	EDT	800	2.1	CAD	NEO
July 22, 2019	12:14:34	EDT	300	2.1	CAD	NEO
July 22, 2019	12:16:38	EDT	100	2.1	CAD	TSX
July 22, 2019	12:17:44	EDT	100	2.1	CAD	TSX
July 22, 2019	12:19:02	EDT	500	2.1	CAD	TSX
July 22, 2019	12:19:41	EDT	200	2.1	CAD	TSX
July 22, 2019	12:19:57	EDT	100	2.1	CAD	TSX
July 22, 2019	12:28:23	EDT	500	2.09	CAD	TSX
July 22, 2019	12:28:23	EDT	100	2.09	CAD	TSX
July 22, 2019	12:28:23	EDT	200	2.09	CAD	TSX
July 22, 2019	12:28:23	EDT	100	2.09	CAD	TSX
July 22, 2019	12:48:16	EDT	100	2.095	CAD	TSX
July 22, 2019	12:48:16	EDT	900	2.1	CAD	TSX
July 22, 2019	12:48:16	EDT	500	2.1	CAD	TSX
July 22, 2019	12:48:16	EDT	500	2.1	CAD	TSX
July 22, 2019	12:48:16	EDT	1000	2.1	CAD	TSX
July 22, 2019	12:48:16	EDT	100	2.1	CAD	TSX
July 22, 2019	12:48:16	EDT	100	2.1	CAD	TSX
July 22, 2019	12:48:16	EDT	1200	2.1	CAD	TSX
July 22, 2019	12:48:16	EDT	800	2.1	CAD	TSX
July 22, 2019	12:57:28	EDT	100	2.095	CAD	TSX
July 22, 2019	12:57:28	EDT	500	2.1	CAD	TSX
July 22, 2019	12:57:28	EDT	200	2.095	CAD	TSX
July 22, 2019	12:57:28	EDT	2100	2.1	CAD	TSX
July 22, 2019	13:16:05	EDT	2500	2.1	CAD	NEO
July 22, 2019	13:16:05	EDT	800	2.1	CAD	Pure
July 22, 2019	13:16:05	EDT	100	2.1	CAD	NEO
July 22, 2019	13:16:05	EDT	100	2.1	CAD	NEO
July 22, 2019	13:16:05	EDT	100	2.1	CAD	NEO
July 22, 2019	13:16:05	EDT	500	2.1	CAD	Pure
July 22, 2019	13:16:05	EDT	2400	2.1	CAD	NEO
July 22, 2019	13:16:05	EDT	100	2.1	CAD	NEO
July 22, 2019	13:20:09	EDT	100	2.1	CAD	NEO
July 22, 2019	13:20:09	EDT	100	2.1	CAD	NEO
July 22, 2019	13:20:09	EDT	100	2.1	CAD	NEO

July 22, 2019	13:20:09	EDT	1400	2.1	CAD	NEO
July 22, 2019	13:52:07	EDT	400	2.095	CAD	Chi-X
July 22, 2019	13:52:07	EDT	1000	2.1	CAD	Chi-X
July 22, 2019	13:52:07	EDT	5100	2.1	CAD	Chi-X
July 22, 2019	13:52:07	EDT	100	2.1	CAD	Chi-X
July 22, 2019	13:52:07	EDT	400	2.1	CAD	Pure
July 22, 2019	13:52:07	EDT	800	2.1	CAD	Pure
July 22, 2019	13:52:07	EDT	900	2.1	CAD	Pure
July 22, 2019	14:50:13	EDT	8000	2.09	CAD	TSX
July 22, 2019	14:50:13	EDT	100	2.09	CAD	TSX
July 22, 2019	14:50:13	EDT	400	2.09	CAD	TSX
July 22, 2019	14:50:14	EDT	600	2.09	CAD	TSX
July 22, 2019	14:50:17	EDT	600	2.09	CAD	TSX
July 22, 2019	14:50:18	EDT	100	2.09	CAD	TSX
July 22, 2019	14:50:22	EDT	600	2.09	CAD	TSX
July 22, 2019	14:50:22	EDT	200	2.09	CAD	TSX
July 22, 2019	14:50:22	EDT	400	2.09	CAD	TSX
July 22, 2019	14:50:22	EDT	200	2.09	CAD	TSX
July 22, 2019	14:50:29	EDT	100	2.09	CAD	NEO
July 22, 2019	14:57:11	EDT	100	2.09	CAD	TSX
July 22, 2019	14:57:11	EDT	200	2.09	CAD	TSX
July 22, 2019	14:57:11	EDT	100	2.09	CAD	TSX
July 22, 2019	14:57:12	EDT	100	2.09	CAD	TSX
July 22, 2019	14:57:12	EDT	100	2.09	CAD	TSX
July 22, 2019	14:57:13	EDT	100	2.09	CAD	TSX
July 22, 2019	14:57:14	EDT	100	2.09	CAD	TSX
July 22, 2019	14:57:18	EDT	100	2.09	CAD	TSX
July 22, 2019	14:59:43	EDT	600	2.09	CAD	TSX
July 22, 2019	14:59:43	EDT	100	2.09	CAD	TSX
July 22, 2019	14:59:43	EDT	100	2.09	CAD	TSX
July 22, 2019	14:59:43	EDT	100	2.09	CAD	TSX
July 22, 2019	14:59:43	EDT	200	2.09	CAD	TSX
July 22, 2019	14:59:43	EDT	200	2.09	CAD	TSX
July 22, 2019	14:59:43	EDT	300	2.09	CAD	TSX
July 22, 2019	14:59:44	EDT	100	2.09	CAD	TSX
July 22, 2019	14:59:44	EDT	200	2.09	CAD	TSX
July 22, 2019	15:01:38	EDT	100	2.09	CAD	TSX
July 22, 2019	15:01:38	EDT	100	2.09	CAD	TSX
July 22, 2019	15:01:38	EDT	400	2.09	CAD	TSX
July 22, 2019	15:01:38	EDT	100	2.09	CAD	TSX
July 22, 2019	15:01:45	EDT	100	2.09	CAD	TSX
July 22, 2019	15:01:46	EDT	200	2.09	CAD	TSX
July 22, 2019	15:03:19	EDT	100	2.09	CAD	TSX
July 22, 2019	15:16:57	EDT	800	2.1	CAD	Chi-X
July 22, 2019	15:16:57	EDT	2000	2.1	CAD	NEO
July 22, 2019	15:16:57	EDT	1500	2.1	CAD	Chi-X
July 22, 2019	15:16:57	EDT	1500	2.1	CAD	Chi-X
July 22, 2019	15:16:57	EDT	1000	2.1	CAD	Pure
July 22, 2019	15:16:57	EDT	100	2.1	CAD	NEO
July 22, 2019	15:16:57	EDT	1100	2.1	CAD	Chi-X

July 22, 2019	15:16:57	EDT	1200	2.1	CAD	Pure
July 22, 2019	15:16:57	EDT	2700	2.1	CAD	NEO
July 22, 2019	15:16:57	EDT	4100	2.1	CAD	Chi-X
July 22, 2019	15:16:57	EDT	800	2.1	CAD	Pure
July 22, 2019	15:16:57	EDT	100	2.1	CAD	NEO
July 22, 2019	15:16:57	EDT	100	2.1	CAD	Chi-X
July 22, 2019	15:16:57	EDT	5500	2.1	CAD	Chi-X
July 22, 2019	15:16:59	EDT	800	2.1	CAD	TSX
July 22, 2019	15:17:00	EDT	1500	2.1	CAD	NEO
July 22, 2019	15:17:00	EDT	700	2.1	CAD	TSX
July 22, 2019	15:17:00	EDT	200	2.1	CAD	TSX
July 22, 2019	15:17:01	EDT	100	2.1	CAD	TSX
July 22, 2019	15:17:02	EDT	300	2.1	CAD	NEO
July 22, 2019	15:26:01	EDT	700	2.1	CAD	Chi-X
July 22, 2019	15:26:01	EDT	200	2.1	CAD	Chi-X
July 22, 2019	15:26:01	EDT	100	2.1	CAD	NEO
July 22, 2019	15:26:02	EDT	100	2.1	CAD	NEO
July 22, 2019	15:26:02	EDT	100	2.1	CAD	NEO
July 22, 2019	15:26:02	EDT	100	2.1	CAD	NEO
July 22, 2019	15:26:41	EDT	500	2.1	CAD	TSX
July 22, 2019	15:26:41	EDT	25	2.1	CAD	TSX
July 22, 2019	15:26:41	EDT	700	2.1	CAD	TSX
July 22, 2019	15:26:41	EDT	1000	2.1	CAD	TSX
July 23, 2019	09:32:20	EDT	800	2.12	CAD	TSX
July 23, 2019	09:32:20	EDT	200	2.12	CAD	TSX
July 23, 2019	09:32:20	EDT	800	2.12	CAD	NEO
July 23, 2019	09:32:20	EDT	200	2.12	CAD	NEO
July 23, 2019	09:38:59	EDT	800	2.13	CAD	TSX
July 23, 2019	09:38:59	EDT	1000	2.13	CAD	TSX
July 23, 2019	09:38:59	EDT	3000	2.13	CAD	TSX
July 23, 2019	09:38:59	EDT	100	2.13	CAD	TSX
July 23, 2019	09:39:05	EDT	100	2.13	CAD	TSX
July 23, 2019	09:39:07	EDT	100	2.13	CAD	TSX
July 23, 2019	09:44:16	EDT	3200	2.15	CAD	NEO
July 23, 2019	09:44:16	EDT	1100	2.15	CAD	NEO
July 23, 2019	09:46:04	EDT	1900	2.14	CAD	TSX
July 23, 2019	09:46:04	EDT	200	2.14	CAD	TSX
July 23, 2019	09:46:04	EDT	300	2.14	CAD	NEO
July 23, 2019	09:46:04	EDT	1900	2.14	CAD	NEO
July 23, 2019	10:00:13	EDT	3100	2.12	CAD	TSX
July 23, 2019	10:00:13	EDT	800	2.12	CAD	NEO
July 23, 2019	10:00:13	EDT	1400	2.12	CAD	TSX
July 23, 2019	10:00:13	EDT	500	2.12	CAD	NEO
July 23, 2019	10:00:14	EDT	100	2.12	CAD	NEO
July 23, 2019	10:00:16	EDT	100	2.12	CAD	NEO
July 23, 2019	10:04:09	EDT	500	2.12	CAD	NEO
July 23, 2019	10:09:30	EDT	1100	2.12	CAD	TSX
July 23, 2019	10:09:30	EDT	3100	2.12	CAD	NEO
July 23, 2019	10:09:33	EDT	1200	2.12	CAD	NEO
July 23, 2019	10:17:25	EDT	2300	2.12	CAD	NEO

July 23, 2019	10:30:01	EDT	1900	2.12	CAD	TSX
July 23, 2019	10:30:01	EDT	100	2.12	CAD	TSX
July 23, 2019	10:37:44	EDT	100	2.12	CAD	NEO
July 23, 2019	10:37:51	EDT	100	2.12	CAD	NEO
July 23, 2019	10:38:05	EDT	100	2.12	CAD	NEO
July 23, 2019	10:38:26	EDT	100	2.12	CAD	NEO
July 23, 2019	10:38:33	EDT	100	2.12	CAD	NEO
July 23, 2019	10:38:40	EDT	100	2.12	CAD	NEO
July 23, 2019	10:39:22	EDT	100	2.12	CAD	NEO
July 23, 2019	10:39:29	EDT	100	2.12	CAD	NEO
July 23, 2019	10:41:00	EDT	100	2.12	CAD	NEO
July 23, 2019	10:41:07	EDT	100	2.12	CAD	NEO
July 23, 2019	10:42:17	EDT	100	2.12	CAD	NEO
July 23, 2019	10:42:31	EDT	100	2.12	CAD	NEO
July 23, 2019	10:45:26	EDT	100	2.12	CAD	NEO
July 23, 2019	10:50:10	EDT	100	2.12	CAD	NEO
July 23, 2019	10:51:06	EDT	100	2.12	CAD	NEO
July 23, 2019	10:51:13	EDT	100	2.12	CAD	NEO
July 23, 2019	10:52:02	EDT	3500	2.12	CAD	NEO
July 23, 2019	10:52:30	EDT	300	2.12	CAD	TSX
July 23, 2019	10:52:37	EDT	100	2.12	CAD	NEO
July 23, 2019	10:53:40	EDT	100	2.12	CAD	NEO
July 23, 2019	10:53:47	EDT	100	2.12	CAD	NEO
July 23, 2019	10:55:18	EDT	100	2.12	CAD	NEO
July 23, 2019	10:56:49	EDT	100	2.12	CAD	NEO
July 23, 2019	10:57:39	EDT	100	2.12	CAD	NEO
July 23, 2019	10:58:56	EDT	100	2.12	CAD	NEO
July 23, 2019	10:59:03	EDT	100	2.12	CAD	NEO
July 23, 2019	10:59:27	EDT	100	2.12	CAD	NEO
July 23, 2019	10:59:35	EDT	100	2.12	CAD	NEO
July 23, 2019	11:00:20	EDT	100	2.12	CAD	NEO
July 23, 2019	11:03:46	EDT	400	2.12	CAD	TSX
July 23, 2019	11:03:46	EDT	4400	2.12	CAD	NEO
July 23, 2019	11:03:46	EDT	4100	2.12	CAD	TSX
July 23, 2019	11:03:46	EDT	4500	2.12	CAD	TSX
July 23, 2019	11:03:47	EDT	300	2.12	CAD	TSX
July 23, 2019	11:03:47	EDT	400	2.12	CAD	TSX
July 23, 2019	11:03:47	EDT	700	2.12	CAD	TSX
July 23, 2019	11:03:47	EDT	500	2.12	CAD	TSX
July 23, 2019	11:03:48	EDT	100	2.12	CAD	TSX
July 23, 2019	11:03:49	EDT	4400	2.12	CAD	NEO
July 23, 2019	11:03:53	EDT	500	2.12	CAD	TSX
July 23, 2019	11:03:53	EDT	100	2.12	CAD	TSX
July 23, 2019	11:03:53	EDT	500	2.12	CAD	TSX
July 23, 2019	11:03:54	EDT	100	2.12	CAD	TSX
July 23, 2019	11:04:02	EDT	1100	2.12	CAD	NEO
July 23, 2019	11:04:30	EDT	100	2.12	CAD	NEO
July 23, 2019	11:08:24	EDT	100	2.12	CAD	NEO
July 23, 2019	11:08:24	EDT	700	2.12	CAD	TSX
July 23, 2019	11:08:25	EDT	100	2.12	CAD	TSX

July 23, 2019	11:08:32	EDT	100	2.12	CAD	NEO
July 23, 2019	11:08:38	EDT	100	2.12	CAD	NEO
July 23, 2019	11:11:08	EDT	100	2.12	CAD	NEO
July 23, 2019	11:11:30	EDT	100	2.12	CAD	NEO
July 23, 2019	11:11:38	EDT	100	2.12	CAD	TSX
July 23, 2019	11:12:27	EDT	100	2.12	CAD	TSX
July 23, 2019	11:13:19	EDT	100	2.12	CAD	NEO
July 23, 2019	11:14:10	EDT	600	2.12	CAD	TSX
July 23, 2019	11:14:10	EDT	100	2.12	CAD	TSX
July 23, 2019	11:14:10	EDT	100	2.12	CAD	TSX
July 23, 2019	11:14:10	EDT	100	2.12	CAD	TSX
July 23, 2019	11:14:10	EDT	100	2.12	CAD	TSX
July 23, 2019	11:14:10	EDT	500	2.12	CAD	TSX
July 23, 2019	11:14:14	EDT	100	2.12	CAD	NEO
July 23, 2019	11:14:50	EDT	100	2.12	CAD	NEO
July 23, 2019	11:15:39	EDT	100	2.12	CAD	NEO
July 23, 2019	11:18:04	EDT	200	2.12	CAD	NEO
July 23, 2019	11:18:41	EDT	100	2.12	CAD	NEO
July 23, 2019	11:19:44	EDT	100	2.12	CAD	NEO
July 23, 2019	11:19:51	EDT	100	2.12	CAD	NEO
July 23, 2019	11:19:58	EDT	100	2.12	CAD	NEO
July 23, 2019	11:20:12	EDT	100	2.12	CAD	NEO
July 23, 2019	11:20:19	EDT	100	2.12	CAD	NEO
July 23, 2019	11:21:01	EDT	100	2.12	CAD	NEO
July 23, 2019	11:21:08	EDT	100	2.12	CAD	NEO
July 23, 2019	11:23:25	EDT	100	2.12	CAD	NEO
July 23, 2019	11:25:25	EDT	100	2.12	CAD	NEO
July 23, 2019	11:26:56	EDT	100	2.12	CAD	NEO
July 23, 2019	11:27:29	EDT	3800	2.12	CAD	TSX
July 23, 2019	11:27:29	EDT	1400	2.12	CAD	TSX
July 23, 2019	11:27:32	EDT	500	2.12	CAD	TSX
July 23, 2019	11:27:33	EDT	100	2.12	CAD	TSX
July 23, 2019	11:27:35	EDT	300	2.12	CAD	TSX
July 23, 2019	11:28:00	EDT	100	2.12	CAD	NEO
July 23, 2019	11:28:08	EDT	100	2.12	CAD	NEO
July 23, 2019	11:29:10	EDT	100	2.12	CAD	NEO
July 23, 2019	11:31:45	EDT	2100	2.12	CAD	TSX
July 23, 2019	11:31:45	EDT	200	2.12	CAD	NEO
July 23, 2019	11:31:45	EDT	800	2.12	CAD	TSX
July 23, 2019	11:31:49	EDT	200	2.12	CAD	NEO
July 23, 2019	11:31:52	EDT	200	2.12	CAD	NEO
July 23, 2019	11:31:55	EDT	100	2.12	CAD	NEO
July 23, 2019	11:32:04	EDT	500	2.12	CAD	NEO
July 23, 2019	11:32:25	EDT	100	2.12	CAD	NEO
July 23, 2019	11:34:14	EDT	100	2.12	CAD	NEO
July 23, 2019	11:35:02	EDT	100	2.12	CAD	NEO
July 23, 2019	11:35:10	EDT	100	2.12	CAD	NEO
July 23, 2019	11:35:18	EDT	100	2.12	CAD	NEO
July 23, 2019	11:35:27	EDT	100	2.12	CAD	NEO
July 23, 2019	11:37:08	EDT	200	2.12	CAD	NEO

July 23, 2019	11:37:10	EDT	100	2.12	CAD	NEO
July 23, 2019	11:48:28	EDT	100	2.12	CAD	NEO
July 23, 2019	11:48:57	EDT	100	2.12	CAD	NEO
July 23, 2019	11:49:04	EDT	100	2.12	CAD	NEO
July 23, 2019	11:49:32	EDT	100	2.12	CAD	NEO
July 23, 2019	11:50:00	EDT	100	2.12	CAD	NEO
July 23, 2019	11:50:07	EDT	100	2.12	CAD	NEO
July 23, 2019	11:50:24	EDT	1000	2.13	CAD	NEO
July 23, 2019	11:50:24	EDT	2400	2.13	CAD	NEO
July 23, 2019	11:50:24	EDT	2400	2.13	CAD	NEO
July 23, 2019	11:52:41	EDT	100	2.12	CAD	NEO
July 23, 2019	11:55:30	EDT	100	2.13	CAD	NEO
July 23, 2019	11:55:30	EDT	100	2.13	CAD	Pure
July 23, 2019	11:55:30	EDT	600	2.13	CAD	NEO
July 23, 2019	11:55:30	EDT	600	2.13	CAD	Pure
July 23, 2019	11:55:30	EDT	100	2.13	CAD	Pure
July 23, 2019	11:55:30	EDT	400	2.13	CAD	Pure
July 23, 2019	11:56:40	EDT	100	2.12	CAD	NEO
July 23, 2019	12:02:50	EDT	100	2.13	CAD	NEO
July 23, 2019	12:03:10	EDT	100	2.13	CAD	NEO
July 23, 2019	12:03:20	EDT	100	2.13	CAD	NEO
July 23, 2019	12:03:31	EDT	100	2.13	CAD	NEO
July 23, 2019	12:05:01	EDT	100	2.14	CAD	NEO
July 23, 2019	12:05:18	EDT	100	2.14	CAD	NEO
July 23, 2019	12:05:36	EDT	100	2.14	CAD	NEO
July 23, 2019	12:09:45	EDT	1500	2.14	CAD	NEO
July 23, 2019	12:15:14	EDT	100	2.15	CAD	Pure
July 23, 2019	12:15:14	EDT	100	2.15	CAD	NEO
July 23, 2019	12:15:14	EDT	100	2.15	CAD	Pure
July 23, 2019	12:15:14	EDT	2400	2.15	CAD	NEO
July 23, 2019	12:15:14	EDT	400	2.15	CAD	NEO
July 23, 2019	12:15:14	EDT	100	2.15	CAD	Pure
July 23, 2019	12:15:14	EDT	1500	2.15	CAD	Pure
July 23, 2019	12:15:14	EDT	100	2.15	CAD	Pure
July 23, 2019	12:15:14	EDT	100	2.15	CAD	Pure
July 23, 2019	12:15:14	EDT	100	2.15	CAD	Pure
July 23, 2019	12:15:14	EDT	1400	2.15	CAD	Pure
July 23, 2019	12:19:10	EDT	1700	2.14	CAD	NEO
July 23, 2019	12:19:10	EDT	2100	2.14	CAD	TSX
July 23, 2019	12:19:10	EDT	500	2.14	CAD	NEO
July 23, 2019	12:44:46	EDT	800	2.14	CAD	NEO
July 23, 2019	12:44:46	EDT	100	2.14	CAD	Pure
July 23, 2019	12:44:46	EDT	500	2.14	CAD	Pure
July 23, 2019	12:44:46	EDT	800	2.14	CAD	Pure
July 23, 2019	12:44:46	EDT	200	2.14	CAD	Omega
July 23, 2019	12:44:46	EDT	300	2.14	CAD	Omega
July 23, 2019	12:44:47	EDT	600	2.14	CAD	Omega
July 23, 2019	12:44:47	EDT	100	2.14	CAD	NEO
July 23, 2019	12:44:47	EDT	100	2.14	CAD	NEO
July 23, 2019	12:44:47	EDT	100	2.14	CAD	Omega

July 23, 2019	12:44:47	EDT	1700	2.14	CAD	NEO
July 23, 2019	12:44:47	EDT	200	2.14	CAD	Omega
July 23, 2019	12:53:47	EDT	100	2.14	CAD	Pure
July 23, 2019	12:53:47	EDT	100	2.14	CAD	Pure
July 23, 2019	12:53:47	EDT	200	2.14	CAD	Omega
July 23, 2019	12:53:47	EDT	100	2.14	CAD	Pure
July 23, 2019	12:53:47	EDT	100	2.14	CAD	Omega
July 23, 2019	12:53:47	EDT	100	2.14	CAD	Pure
July 23, 2019	12:53:47	EDT	100	2.14	CAD	Omega
July 23, 2019	13:15:33	EDT	100	2.14	CAD	Chi-X
July 23, 2019	13:15:33	EDT	400	2.14	CAD	Chi-X
July 23, 2019	13:15:33	EDT	1000	2.14	CAD	Chi-X
July 23, 2019	13:15:33	EDT	200	2.14	CAD	Chi-X
July 23, 2019	13:15:33	EDT	500	2.14	CAD	Chi-X
July 23, 2019	13:15:33	EDT	500	2.14	CAD	Pure
July 23, 2019	13:15:33	EDT	700	2.14	CAD	NEO
July 23, 2019	13:15:33	EDT	2000	2.14	CAD	NEO
July 23, 2019	13:15:33	EDT	100	2.14	CAD	NEO
July 23, 2019	13:15:33	EDT	200	2.14	CAD	Pure
July 23, 2019	13:15:33	EDT	400	2.14	CAD	Omega
July 23, 2019	13:15:33	EDT	200	2.14	CAD	Omega
July 23, 2019	13:15:33	EDT	100	2.14	CAD	Omega
July 23, 2019	13:15:33	EDT	600	2.14	CAD	Omega
July 23, 2019	13:15:33	EDT	600	2.14	CAD	Omega
July 23, 2019	13:15:33	EDT	100	2.14	CAD	Omega
July 23, 2019	13:18:35	EDT	300	2.14	CAD	NEO
July 23, 2019	13:18:35	EDT	400	2.14	CAD	Omega
July 23, 2019	13:18:35	EDT	300	2.14	CAD	Omega
July 23, 2019	13:24:42	EDT	300	2.15	CAD	NEO
July 23, 2019	13:24:42	EDT	100	2.145	CAD	TSX
July 23, 2019	13:24:42	EDT	100	2.15	CAD	NEO
July 23, 2019	13:24:42	EDT	1600	2.15	CAD	TSX
July 23, 2019	13:24:42	EDT	200	2.15	CAD	TSX
July 23, 2019	13:27:43	EDT	100	2.15	CAD	Pure
July 23, 2019	13:27:43	EDT	800	2.15	CAD	Pure
July 23, 2019	13:31:45	EDT	100	2.15	CAD	Pure
July 23, 2019	13:31:45	EDT	100	2.15	CAD	Pure
July 23, 2019	13:31:45	EDT	700	2.15	CAD	Pure
July 23, 2019	13:34:46	EDT	200	2.15	CAD	NEO
July 23, 2019	13:34:46	EDT	200	2.15	CAD	Omega
July 23, 2019	13:34:46	EDT	100	2.15	CAD	Omega
July 23, 2019	13:34:46	EDT	400	2.15	CAD	Omega
July 23, 2019	13:38:47	EDT	100	2.15	CAD	Pure
July 23, 2019	13:38:47	EDT	300	2.15	CAD	Pure
July 23, 2019	13:38:47	EDT	400	2.15	CAD	Pure
July 23, 2019	13:42:49	EDT	100	2.15	CAD	Pure
July 23, 2019	13:42:49	EDT	100	2.15	CAD	Pure
July 23, 2019	13:42:49	EDT	300	2.15	CAD	Pure
July 23, 2019	13:42:49	EDT	300	2.15	CAD	Pure
July 23, 2019	13:42:49	EDT	400	2.15	CAD	Omega

July 23, 2019	13:46:50	EDT	100	2.15	CAD	Chi-X
July 23, 2019	13:46:50	EDT	800	2.15	CAD	Chi-X
July 23, 2019	14:00:09	EDT	700	2.15	CAD	TSX
July 23, 2019	14:00:09	EDT	100	2.15	CAD	Pure
July 23, 2019	14:00:09	EDT	1500	2.15	CAD	Chi-X
July 23, 2019	14:00:09	EDT	1500	2.15	CAD	Pure
July 23, 2019	14:00:09	EDT	100	2.15	CAD	Chi-X
July 23, 2019	14:00:09	EDT	100	2.15	CAD	Pure
July 23, 2019	14:00:09	EDT	100	2.15	CAD	Pure
July 23, 2019	14:00:09	EDT	100	2.15	CAD	Pure
July 23, 2019	14:02:10	EDT	800	2.15	CAD	Pure
July 23, 2019	14:26:22	EDT	100	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	1100	2.15	CAD	TSX
July 23, 2019	14:26:22	EDT	1000	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	100	2.15	CAD	Pure
July 23, 2019	14:26:22	EDT	1000	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	700	2.15	CAD	Pure
July 23, 2019	14:26:22	EDT	400	2.15	CAD	NEO
July 23, 2019	14:26:22	EDT	100	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	100	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	300	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	200	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	400	2.15	CAD	Pure
July 23, 2019	14:26:22	EDT	100	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	1000	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	1500	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	200	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	100	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	400	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	100	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	1100	2.15	CAD	NEO
July 23, 2019	14:26:22	EDT	100	2.15	CAD	Chi-X
July 23, 2019	14:26:22	EDT	200	2.15	CAD	NEO
July 23, 2019	14:28:23	EDT	100	2.15	CAD	TSX
July 23, 2019	14:28:23	EDT	400	2.15	CAD	TSX
July 23, 2019	14:28:23	EDT	800	2.15	CAD	Pure
July 23, 2019	14:28:23	EDT	100	2.15	CAD	Pure
July 23, 2019	14:34:45	EDT	100	2.15	CAD	NEO
July 23, 2019	14:35:36	EDT	400	2.16	CAD	TSX
July 23, 2019	14:35:36	EDT	100	2.16	CAD	TSX
July 23, 2019	14:35:36	EDT	1000	2.16	CAD	TSX
July 23, 2019	14:35:36	EDT	400	2.16	CAD	TSX
July 23, 2019	14:35:36	EDT	100	2.16	CAD	Pure
July 23, 2019	14:35:36	EDT	200	2.16	CAD	TSX
July 23, 2019	14:35:36	EDT	100	2.16	CAD	Pure
July 23, 2019	14:35:36	EDT	900	2.16	CAD	Pure
July 23, 2019	14:35:36	EDT	600	2.16	CAD	Pure
July 23, 2019	14:36:55	EDT	100	2.15	CAD	NEO
July 23, 2019	14:39:39	EDT	100	2.16	CAD	Pure
July 23, 2019	14:39:39	EDT	800	2.16	CAD	NEO

July 23, 2019	14:39:39	EDT	300	2.16	CAD	Pure
July 23, 2019	14:39:39	EDT	100	2.16	CAD	Pure
July 23, 2019	14:39:39	EDT	300	2.16	CAD	Pure
July 23, 2019	14:45:47	EDT	100	2.15	CAD	NEO
July 23, 2019	14:58:28	EDT	100	2.15	CAD	NEO
July 23, 2019	15:00:14	EDT	100	2.15	CAD	NEO
July 23, 2019	15:00:31	EDT	100	2.15	CAD	NEO
July 23, 2019	15:02:59	EDT	100	2.15	CAD	NEO
July 23, 2019	15:04:25	EDT	100	2.15	CAD	NEO
July 23, 2019	15:19:15	EDT	400	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	300	2.16	CAD	NEO
July 23, 2019	15:19:15	EDT	2900	2.16	CAD	NEO
July 23, 2019	15:19:15	EDT	1000	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	800	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	300	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	1000	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	500	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	1000	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	500	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	800	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	3500	2.16	CAD	NEO
July 23, 2019	15:19:15	EDT	1000	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	2000	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	700	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	100	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	100	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	1600	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	25	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	200	2.16	CAD	NEO
July 23, 2019	15:19:15	EDT	1300	2.16	CAD	NEO
July 23, 2019	15:19:15	EDT	100	2.16	CAD	NEO
July 23, 2019	15:19:15	EDT	100	2.16	CAD	NEO
July 23, 2019	15:19:15	EDT	1200	2.16	CAD	NEO
July 23, 2019	15:19:15	EDT	200	2.16	CAD	NEO
July 23, 2019	15:19:15	EDT	100	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	1800	2.16	CAD	TSX
July 23, 2019	15:19:15	EDT	100	2.16	CAD	NEO
July 24, 2019	09:33:02	EDT	100	2.17	CAD	TSX
July 24, 2019	09:33:02	EDT	100	2.17	CAD	Chi-X
July 24, 2019	09:33:02	EDT	200	2.17	CAD	TSX
July 24, 2019	09:33:02	EDT	200	2.17	CAD	Chi-X
July 24, 2019	09:33:02	EDT	100	2.17	CAD	TSX
July 24, 2019	09:33:02	EDT	100	2.17	CAD	TSX
July 24, 2019	09:33:02	EDT	100	2.17	CAD	TSX
July 24, 2019	09:33:02	EDT	100	2.17	CAD	TSX
July 24, 2019	09:35:27	EDT	1100	2.19	CAD	NEO
July 24, 2019	09:35:27	EDT	1000	2.19	CAD	TSX
July 24, 2019	09:35:27	EDT	800	2.19	CAD	TSX
July 24, 2019	09:35:27	EDT	1000	2.19	CAD	NEO
July 24, 2019	09:35:27	EDT	1000	2.19	CAD	TSX

July 24, 2019	09:35:27	EDT	800	2.19	CAD	NEO
July 24, 2019	09:42:02	EDT	1700	2.2	CAD	TSX
July 24, 2019	09:42:02	EDT	1200	2.2	CAD	Chi-X
July 24, 2019	09:44:00	EDT	200	2.19	CAD	NEO
July 24, 2019	09:44:00	EDT	100	2.19	CAD	TSX
July 24, 2019	09:44:00	EDT	1700	2.19	CAD	NEO
July 24, 2019	09:44:00	EDT	200	2.19	CAD	TSX
July 24, 2019	09:44:00	EDT	100	2.19	CAD	NEO
July 24, 2019	09:44:00	EDT	2000	2.19	CAD	TSX
July 24, 2019	09:44:00	EDT	100	2.19	CAD	NEO
July 24, 2019	09:44:00	EDT	200	2.19	CAD	TSX
July 24, 2019	09:49:36	EDT	100	2.18	CAD	Chi-X
July 24, 2019	09:49:36	EDT	200	2.18	CAD	Chi-X
July 24, 2019	09:49:36	EDT	300	2.18	CAD	Chi-X
July 24, 2019	09:49:36	EDT	300	2.18	CAD	Chi-X
July 24, 2019	09:52:42	EDT	100	2.18	CAD	TSX
July 24, 2019	09:52:42	EDT	1000	2.18	CAD	TSX
July 24, 2019	09:52:42	EDT	100	2.175	CAD	TSX
July 24, 2019	09:52:42	EDT	800	2.18	CAD	TSX
July 24, 2019	09:52:42	EDT	100	2.18	CAD	TSX
July 24, 2019	09:56:48	EDT	200	2.18	CAD	TSX
July 24, 2019	09:56:48	EDT	100	2.175	CAD	TSX
July 24, 2019	09:56:48	EDT	200	2.18	CAD	TSX
July 24, 2019	09:56:48	EDT	100	2.175	CAD	Chi-X
July 24, 2019	09:56:48	EDT	400	2.18	CAD	TSX
July 24, 2019	09:56:48	EDT	100	2.18	CAD	TSX
July 24, 2019	09:56:48	EDT	100	2.18	CAD	TSX
July 24, 2019	09:56:48	EDT	700	2.18	CAD	TSX
July 24, 2019	09:56:48	EDT	400	2.18	CAD	TSX
July 24, 2019	09:58:50	EDT	500	2.19	CAD	Chi-X
July 24, 2019	09:58:50	EDT	100	2.19	CAD	Chi-X
July 24, 2019	09:58:50	EDT	500	2.19	CAD	TSX
July 24, 2019	10:00:52	EDT	500	2.19	CAD	TSX
July 24, 2019	10:00:52	EDT	100	2.19	CAD	TSX
July 24, 2019	10:00:52	EDT	300	2.19	CAD	TSX
July 24, 2019	10:00:52	EDT	100	2.19	CAD	Chi-X
July 24, 2019	10:00:52	EDT	100	2.19	CAD	TSX
July 24, 2019	10:00:52	EDT	200	2.19	CAD	TSX
July 24, 2019	10:07:09	EDT	100	2.19	CAD	TSX
July 24, 2019	10:07:09	EDT	1000	2.19	CAD	TSX
July 24, 2019	10:07:09	EDT	100	2.19	CAD	TSX
July 24, 2019	10:07:09	EDT	100	2.185	CAD	TSX
July 24, 2019	10:07:09	EDT	100	2.19	CAD	TSX
July 24, 2019	10:07:09	EDT	400	2.19	CAD	TSX
July 24, 2019	10:07:09	EDT	100	2.19	CAD	TSX
July 24, 2019	10:07:09	EDT	100	2.19	CAD	Alpha
July 24, 2019	10:07:09	EDT	1000	2.2	CAD	TSX
July 24, 2019	10:07:09	EDT	1000	2.2	CAD	Chi-X
July 24, 2019	10:07:09	EDT	1500	2.2	CAD	Chi-X
July 24, 2019	10:07:09	EDT	100	2.2	CAD	Chi-X

July 24, 2019	10:07:09	EDT	100	2.2	CAD	Chi-X
July 24, 2019	10:13:10	EDT	500	2.2	CAD	TSX
July 24, 2019	10:13:10	EDT	100	2.2	CAD	Chi-X
July 24, 2019	10:18:20	EDT	200	2.21	CAD	Chi-X
July 24, 2019	10:18:20	EDT	500	2.21	CAD	Chi-X
July 24, 2019	10:18:20	EDT	1700	2.21	CAD	Chi-X
July 24, 2019	10:18:20	EDT	100	2.21	CAD	Chi-X
July 24, 2019	10:19:21	EDT	100	2.22	CAD	Pure
July 24, 2019	10:19:21	EDT	700	2.22	CAD	Chi-X
July 24, 2019	10:21:23	EDT	900	2.22	CAD	Chi-X
July 24, 2019	10:23:06	EDT	100	2.21	CAD	NEO
July 24, 2019	10:24:27	EDT	100	2.215	CAD	TSX
July 24, 2019	10:24:27	EDT	400	2.22	CAD	TSX
July 24, 2019	10:24:27	EDT	100	2.22	CAD	Chi-X
July 24, 2019	10:24:27	EDT	300	2.22	CAD	TSX
July 24, 2019	10:24:27	EDT	400	2.22	CAD	TSX
July 24, 2019	10:26:28	EDT	200	2.23	CAD	TSX
July 24, 2019	10:26:28	EDT	500	2.23	CAD	Chi-X
July 24, 2019	10:26:28	EDT	300	2.23	CAD	Chi-X
July 24, 2019	10:30:34	EDT	300	2.23	CAD	TSX
July 24, 2019	10:30:34	EDT	100	2.23	CAD	TSX
July 24, 2019	10:30:34	EDT	100	2.23	CAD	TSX
July 24, 2019	10:33:43	EDT	1000	2.24	CAD	TSX
July 24, 2019	10:33:43	EDT	3000	2.24	CAD	TSX
July 24, 2019	10:35:45	EDT	1400	2.24	CAD	TSX
July 24, 2019	10:37:47	EDT	800	2.24	CAD	Pure
July 24, 2019	10:39:50	EDT	100	2.235	CAD	TSX
July 24, 2019	10:39:50	EDT	1000	2.24	CAD	TSX
July 24, 2019	10:39:50	EDT	1500	2.24	CAD	TSX
July 24, 2019	10:42:55	EDT	500	2.24	CAD	Pure
July 24, 2019	10:42:55	EDT	100	2.24	CAD	Chi-X
July 24, 2019	10:42:55	EDT	900	2.24	CAD	Pure
July 24, 2019	10:42:55	EDT	200	2.235	CAD	Chi-X
July 24, 2019	10:42:55	EDT	300	2.24	CAD	Chi-X
July 24, 2019	10:44:44	EDT	200	2.23	CAD	NEO
July 24, 2019	10:44:44	EDT	1400	2.23	CAD	TSX
July 24, 2019	10:44:44	EDT	300	2.23	CAD	TSX
July 24, 2019	10:44:44	EDT	100	2.23	CAD	TSX
July 24, 2019	10:44:44	EDT	1600	2.23	CAD	NEO
July 24, 2019	10:48:30	EDT	800	2.22	CAD	NEO
July 24, 2019	10:48:43	EDT	800	2.22	CAD	TSX
July 24, 2019	10:48:43	EDT	200	2.22	CAD	TSX
July 24, 2019	10:48:43	EDT	200	2.22	CAD	NEO
July 24, 2019	10:51:05	EDT	100	2.21	CAD	NEO
July 24, 2019	10:54:21	EDT	100	2.21	CAD	NEO
July 24, 2019	10:58:31	EDT	100	2.21	CAD	NEO
July 24, 2019	11:00:00	EDT	1000	2.22	CAD	TSX
July 24, 2019	11:00:00	EDT	200	2.22	CAD	TSX
July 24, 2019	11:00:00	EDT	100	2.215	CAD	TSX
July 24, 2019	11:00:00	EDT	100	2.215	CAD	TSX

July 24, 2019	11:00:00	EDT	100	2.22	CAD	Pure
July 24, 2019	11:00:00	EDT	100	2.22	CAD	TSX
July 24, 2019	11:00:00	EDT	200	2.22	CAD	TSX
July 24, 2019	11:00:00	EDT	800	2.22	CAD	Pure
July 24, 2019	11:00:00	EDT	500	2.22	CAD	Pure
July 24, 2019	11:03:35	EDT	800	2.21	CAD	TSX
July 24, 2019	11:03:35	EDT	500	2.21	CAD	TSX
July 24, 2019	11:03:35	EDT	900	2.21	CAD	NEO
July 24, 2019	11:03:35	EDT	100	2.21	CAD	TSX
July 24, 2019	11:03:35	EDT	300	2.21	CAD	TSX
July 24, 2019	11:03:35	EDT	1000	2.21	CAD	TSX
July 24, 2019	11:03:35	EDT	800	2.21	CAD	NEO
July 24, 2019	11:03:35	EDT	500	2.21	CAD	NEO
July 24, 2019	11:03:35	EDT	100	2.21	CAD	NEO
July 24, 2019	11:03:35	EDT	100	2.21	CAD	NEO
July 24, 2019	11:03:35	EDT	100	2.21	CAD	NEO
July 24, 2019	11:03:35	EDT	100	2.21	CAD	NEO
July 24, 2019	11:03:35	EDT	100	2.21	CAD	NEO
July 24, 2019	11:10:33	EDT	100	2.22	CAD	Chi-X
July 24, 2019	11:10:33	EDT	300	2.22	CAD	Chi-X
July 24, 2019	11:10:33	EDT	700	2.22	CAD	Chi-X
July 24, 2019	11:12:35	EDT	100	2.22	CAD	Chi-X
July 24, 2019	11:12:35	EDT	900	2.22	CAD	Chi-X
July 24, 2019	11:12:35	EDT	200	2.22	CAD	Chi-X
July 24, 2019	11:13:39	EDT	800	2.22	CAD	Chi-X
July 24, 2019	11:15:42	EDT	400	2.22	CAD	Chi-X
July 24, 2019	11:15:42	EDT	1000	2.22	CAD	Pure
July 24, 2019	11:15:42	EDT	100	2.22	CAD	Chi-X
July 24, 2019	11:17:44	EDT	800	2.22	CAD	Pure
July 24, 2019	11:19:48	EDT	900	2.22	CAD	Chi-X
July 24, 2019	11:19:48	EDT	600	2.22	CAD	Chi-X
July 24, 2019	11:20:50	EDT	100	2.22	CAD	TSX
July 24, 2019	11:20:50	EDT	100	2.22	CAD	TSX
July 24, 2019	11:20:50	EDT	1000	2.22	CAD	TSX
July 24, 2019	11:22:52	EDT	300	2.22	CAD	Chi-X
July 24, 2019	11:22:52	EDT	1500	2.22	CAD	Pure
July 24, 2019	11:26:59	EDT	400	2.22	CAD	Chi-X
July 24, 2019	11:26:59	EDT	300	2.22	CAD	Chi-X
July 24, 2019	11:26:59	EDT	100	2.22	CAD	Pure
July 24, 2019	11:26:59	EDT	1000	2.22	CAD	Pure
July 24, 2019	11:26:59	EDT	100	2.22	CAD	Pure
July 24, 2019	11:37:22	EDT	700	2.22	CAD	Chi-X
July 24, 2019	11:37:22	EDT	1500	2.22	CAD	Chi-X
July 24, 2019	11:37:22	EDT	100	2.22	CAD	Pure
July 24, 2019	11:37:22	EDT	200	2.22	CAD	Chi-X
July 24, 2019	11:37:22	EDT	700	2.22	CAD	Chi-X
July 24, 2019	11:37:22	EDT	1000	2.22	CAD	Pure
July 24, 2019	11:39:26	EDT	1000	2.22	CAD	Pure
July 24, 2019	11:39:26	EDT	1000	2.22	CAD	Chi-X
July 24, 2019	11:43:05	EDT	2300	2.21	CAD	TSX

July 24, 2019	11:43:05	EDT	700	2.21	CAD	NEO
July 24, 2019	11:43:05	EDT	900	2.21	CAD	NEO
July 24, 2019	11:43:05	EDT	100	2.21	CAD	NEO
July 24, 2019	11:43:05	EDT	100	2.21	CAD	NEO
July 24, 2019	11:43:05	EDT	100	2.21	CAD	NEO
July 24, 2019	11:43:05	EDT	100	2.21	CAD	NEO
July 24, 2019	11:43:05	EDT	200	2.21	CAD	NEO
July 24, 2019	11:48:09	EDT	800	2.2	CAD	NEO
July 24, 2019	11:48:21	EDT	200	2.2	CAD	NEO
July 24, 2019	11:48:21	EDT	800	2.2	CAD	TSX
July 24, 2019	11:51:26	EDT	200	2.2	CAD	TSX
July 24, 2019	11:53:46	EDT	100	2.19	CAD	NEO
July 24, 2019	11:58:31	EDT	400	2.19	CAD	TSX
July 24, 2019	11:58:45	EDT	100	2.195	CAD	TSX
July 24, 2019	11:58:45	EDT	400	2.2	CAD	TSX
July 24, 2019	11:58:45	EDT	100	2.195	CAD	TSX
July 24, 2019	12:02:49	EDT	100	2.195	CAD	TSX
July 24, 2019	12:02:49	EDT	500	2.2	CAD	TSX
July 24, 2019	12:02:49	EDT	400	2.2	CAD	TSX
July 24, 2019	12:02:49	EDT	100	2.195	CAD	TSX
July 24, 2019	12:02:49	EDT	100	2.2	CAD	TSX
July 24, 2019	12:12:37	EDT	3000	2.19	CAD	NEO
July 24, 2019	12:12:37	EDT	1000	2.19	CAD	NEO
July 24, 2019	12:12:37	EDT	400	2.19	CAD	TSX
July 24, 2019	12:12:37	EDT	700	2.19	CAD	TSX
July 24, 2019	12:12:37	EDT	100	2.19	CAD	TSX
July 24, 2019	12:12:37	EDT	700	2.19	CAD	TSX
July 24, 2019	12:12:37	EDT	1200	2.19	CAD	TSX
July 24, 2019	12:12:41	EDT	900	2.19	CAD	TSX
July 24, 2019	12:16:19	EDT	100	2.17	CAD	NEO
July 24, 2019	12:18:45	EDT	900	2.17	CAD	TSX
July 24, 2019	12:18:45	EDT	800	2.17	CAD	NEO
July 24, 2019	12:18:45	EDT	100	2.17	CAD	NEO
July 24, 2019	12:18:45	EDT	100	2.17	CAD	TSX
July 24, 2019	12:33:17	EDT	100	2.16	CAD	NEO
July 24, 2019	12:34:18	EDT	100	2.17	CAD	Pure
July 24, 2019	12:34:18	EDT	900	2.17	CAD	Pure
July 24, 2019	12:34:18	EDT	200	2.17	CAD	TSX
July 24, 2019	12:34:18	EDT	100	2.165	CAD	TSX
July 24, 2019	12:34:18	EDT	600	2.17	CAD	Pure
July 24, 2019	12:35:24	EDT	1000	2.16	CAD	NEO
July 24, 2019	12:39:54	EDT	100	2.16	CAD	NEO
July 24, 2019	12:42:23	EDT	100	2.165	CAD	TSX
July 24, 2019	12:42:23	EDT	300	2.17	CAD	TSX
July 24, 2019	12:42:23	EDT	200	2.17	CAD	TSX
July 24, 2019	12:42:23	EDT	500	2.17	CAD	TSX
July 24, 2019	12:46:24	EDT	100	2.165	CAD	TSX
July 24, 2019	12:46:24	EDT	300	2.17	CAD	TSX
July 24, 2019	12:46:24	EDT	400	2.17	CAD	TSX

July 24, 2019	13:02:49	EDT	100	2.165	CAD	TSX
July 24, 2019	13:02:49	EDT	4400	2.17	CAD	TSX
July 24, 2019	13:02:49	EDT	400	2.17	CAD	TSX
July 24, 2019	13:06:29	EDT	200	2.16	CAD	NEO
July 24, 2019	13:22:34	EDT	1700	2.16	CAD	TSX
July 24, 2019	13:22:34	EDT	100	2.16	CAD	TSX
July 24, 2019	13:22:34	EDT	1000	2.16	CAD	TSX
July 24, 2019	13:22:34	EDT	1200	2.16	CAD	Chi-X
July 24, 2019	13:22:34	EDT	1000	2.16	CAD	Chi-X
July 24, 2019	13:22:34	EDT	400	2.16	CAD	TSX
July 24, 2019	13:22:34	EDT	1000	2.16	CAD	Pure
July 24, 2019	13:22:34	EDT	100	2.16	CAD	TSX
July 24, 2019	13:22:34	EDT	1700	2.16	CAD	TSX
July 24, 2019	13:22:34	EDT	400	2.16	CAD	Alpha
July 24, 2019	13:22:34	EDT	300	2.16	CAD	Alpha
July 24, 2019	13:31:36	EDT	100	2.155	CAD	TSX
July 24, 2019	13:31:36	EDT	100	2.155	CAD	TSX
July 24, 2019	13:31:36	EDT	100	2.155	CAD	TSX
July 24, 2019	13:31:36	EDT	400	2.16	CAD	TSX
July 24, 2019	13:31:36	EDT	100	2.16	CAD	TSX
July 24, 2019	13:34:36	EDT	100	2.155	CAD	TSX
July 24, 2019	13:34:36	EDT	400	2.155	CAD	TSX
July 24, 2019	13:34:36	EDT	100	2.155	CAD	TSX
July 24, 2019	13:34:36	EDT	200	2.16	CAD	TSX
July 24, 2019	13:38:38	EDT	100	2.155	CAD	TSX
July 24, 2019	13:38:38	EDT	300	2.16	CAD	TSX
July 24, 2019	13:38:38	EDT	100	2.155	CAD	TSX
July 24, 2019	13:38:38	EDT	400	2.16	CAD	TSX
July 24, 2019	13:45:43	EDT	100	2.155	CAD	TSX
July 24, 2019	13:45:43	EDT	100	2.155	CAD	TSX
July 24, 2019	13:45:43	EDT	400	2.16	CAD	TSX
July 24, 2019	13:45:43	EDT	100	2.16	CAD	Pure
July 24, 2019	13:45:43	EDT	100	2.16	CAD	Pure
July 24, 2019	13:45:43	EDT	600	2.16	CAD	Pure
July 24, 2019	13:45:43	EDT	400	2.16	CAD	Pure
July 24, 2019	13:49:44	EDT	100	2.155	CAD	TSX
July 24, 2019	13:49:44	EDT	100	2.155	CAD	TSX
July 24, 2019	13:49:44	EDT	500	2.16	CAD	TSX
July 24, 2019	13:49:44	EDT	100	2.16	CAD	TSX
July 24, 2019	13:49:44	EDT	200	2.16	CAD	TSX
July 24, 2019	13:51:36	EDT	1400	2.15	CAD	NEO
July 24, 2019	13:59:52	EDT	100	2.155	CAD	TSX
July 24, 2019	13:59:52	EDT	200	2.155	CAD	TSX
July 24, 2019	13:59:52	EDT	100	2.155	CAD	TSX
July 24, 2019	13:59:52	EDT	100	2.16	CAD	Pure
July 24, 2019	13:59:52	EDT	500	2.16	CAD	TSX
July 24, 2019	13:59:52	EDT	400	2.16	CAD	Pure
July 24, 2019	13:59:52	EDT	300	2.16	CAD	TSX
July 24, 2019	13:59:52	EDT	200	2.16	CAD	Pure
July 24, 2019	14:00:57	EDT	200	2.15	CAD	TSX

July 24, 2019	14:00:57	EDT	900	2.15	CAD	TSX
July 24, 2019	14:00:57	EDT	300	2.15	CAD	TSX
July 24, 2019	14:00:57	EDT	100	2.15	CAD	TSX
July 24, 2019	14:00:57	EDT	300	2.15	CAD	TSX
July 24, 2019	14:00:57	EDT	800	2.15	CAD	NEO
July 24, 2019	14:00:57	EDT	500	2.15	CAD	NEO
July 24, 2019	14:00:57	EDT	400	2.15	CAD	NEO
July 24, 2019	14:00:57	EDT	100	2.15	CAD	NEO
July 24, 2019	14:11:17	EDT	1700	2.14	CAD	NEO
July 24, 2019	14:14:18	EDT	200	2.14	CAD	NEO
July 24, 2019	14:14:18	EDT	700	2.14	CAD	TSX
July 24, 2019	14:14:18	EDT	1100	2.14	CAD	NEO
July 24, 2019	14:14:18	EDT	700	2.14	CAD	TSX
July 24, 2019	14:14:19	EDT	100	2.14	CAD	NEO
July 24, 2019	14:21:19	EDT	900	2.15	CAD	Chi-X
July 24, 2019	14:23:20	EDT	500	2.15	CAD	TSX
July 24, 2019	14:23:20	EDT	400	2.15	CAD	TSX
July 24, 2019	14:25:22	EDT	500	2.15	CAD	TSX
July 24, 2019	14:25:22	EDT	500	2.15	CAD	TSX
July 24, 2019	14:29:27	EDT	500	2.16	CAD	TSX
July 24, 2019	14:29:27	EDT	200	2.16	CAD	TSX
July 24, 2019	14:29:27	EDT	300	2.16	CAD	TSX
July 24, 2019	14:29:27	EDT	1000	2.16	CAD	TSX
July 24, 2019	14:29:27	EDT	100	2.16	CAD	TSX
July 24, 2019	14:30:53	EDT	100	2.15	CAD	NEO
July 24, 2019	14:32:30	EDT	300	2.16	CAD	TSX
July 24, 2019	14:32:30	EDT	800	2.16	CAD	TSX
July 24, 2019	14:33:32	EDT	300	2.16	CAD	TSX
July 24, 2019	14:33:32	EDT	400	2.16	CAD	TSX
July 24, 2019	14:33:32	EDT	100	2.16	CAD	TSX
July 24, 2019	14:34:35	EDT	300	2.16	CAD	TSX
July 24, 2019	14:34:35	EDT	500	2.16	CAD	TSX
July 24, 2019	14:36:38	EDT	100	2.17	CAD	NEO
July 24, 2019	14:36:38	EDT	900	2.17	CAD	Pure
July 24, 2019	14:38:39	EDT	1000	2.17	CAD	Pure
July 24, 2019	14:42:45	EDT	100	2.17	CAD	NEO
July 24, 2019	14:42:45	EDT	1500	2.17	CAD	Pure
July 24, 2019	14:44:46	EDT	1000	2.17	CAD	Chi-X
July 24, 2019	14:46:47	EDT	100	2.17	CAD	Pure
July 24, 2019	14:46:47	EDT	700	2.17	CAD	Pure
July 24, 2019	14:48:48	EDT	800	2.17	CAD	TSX
July 24, 2019	14:48:48	EDT	200	2.17	CAD	Chi-X
July 24, 2019	14:56:59	EDT	400	2.17	CAD	Chi-X
July 24, 2019	14:56:59	EDT	800	2.17	CAD	Chi-X
July 24, 2019	14:56:59	EDT	1500	2.17	CAD	Pure
July 24, 2019	14:56:59	EDT	100	2.17	CAD	Chi-X
July 24, 2019	14:59:01	EDT	1100	2.17	CAD	Pure
July 24, 2019	15:01:02	EDT	200	2.17	CAD	Chi-X
July 24, 2019	15:01:02	EDT	100	2.17	CAD	Chi-X
July 24, 2019	15:01:02	EDT	1500	2.17	CAD	Pure

July 24, 2019	15:01:02	EDT	100	2.17	CAD	Chi-X
July 24, 2019	15:05:09	EDT	1500	2.17	CAD	Pure
July 24, 2019	15:05:09	EDT	100	2.17	CAD	Chi-X
July 24, 2019	15:05:09	EDT	300	2.17	CAD	Chi-X
July 24, 2019	15:09:14	EDT	200	2.17	CAD	Omega
July 24, 2019	15:09:14	EDT	600	2.17	CAD	Omega
July 24, 2019	15:09:14	EDT	100	2.17	CAD	Omega
July 24, 2019	15:09:14	EDT	600	2.17	CAD	Omega
July 24, 2019	15:14:16	EDT	400	2.16	CAD	TSX
July 24, 2019	15:20:06	EDT	700	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	100	2.165	CAD	TSX
July 24, 2019	15:20:06	EDT	100	2.165	CAD	TSX
July 24, 2019	15:20:06	EDT	100	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	600	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	1000	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	1100	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	200	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	1300	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	100	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	400	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	500	2.17	CAD	TSX
July 24, 2019	15:20:06	EDT	1900	2.17	CAD	TSX
July 24, 2019	15:20:26	EDT	500	2.18	CAD	TSX
July 24, 2019	15:20:26	EDT	1000	2.18	CAD	TSX
July 24, 2019	15:20:26	EDT	1000	2.18	CAD	TSX
July 24, 2019	15:20:26	EDT	100	2.18	CAD	TSX
July 24, 2019	15:20:26	EDT	25	2.18	CAD	TSX
July 25, 2019	09:31:41	EDT	800	2.16	CAD	TSX
July 25, 2019	09:31:41	EDT	600	2.16	CAD	NEO
July 25, 2019	09:31:41	EDT	200	2.16	CAD	TSX
July 25, 2019	09:31:41	EDT	100	2.16	CAD	NEO
July 25, 2019	09:31:41	EDT	200	2.16	CAD	NEO
July 25, 2019	09:31:41	EDT	100	2.16	CAD	NEO
July 25, 2019	09:34:05	EDT	300	2.16	CAD	TSX
July 25, 2019	09:34:05	EDT	500	2.16	CAD	TSX
July 25, 2019	09:34:05	EDT	300	2.16	CAD	NEO
July 25, 2019	09:34:05	EDT	100	2.16	CAD	TSX
July 25, 2019	09:34:05	EDT	800	2.16	CAD	NEO
July 25, 2019	09:34:05	EDT	100	2.16	CAD	TSX
July 25, 2019	09:35:05	EDT	1000	2.15	CAD	TSX
July 25, 2019	09:35:05	EDT	900	2.15	CAD	NEO
July 25, 2019	09:35:14	EDT	100	2.15	CAD	NEO
July 25, 2019	09:36:16	EDT	800	2.13	CAD	TSX
July 25, 2019	09:36:16	EDT	800	2.13	CAD	NEO
July 25, 2019	09:36:16	EDT	200	2.13	CAD	TSX
July 25, 2019	09:39:48	EDT	1300	2.16	CAD	TSX
July 25, 2019	09:39:48	EDT	1200	2.16	CAD	NEO
July 25, 2019	09:39:48	EDT	200	2.16	CAD	NEO
July 25, 2019	09:43:06	EDT	600	2.14	CAD	TSX
July 25, 2019	09:43:06	EDT	200	2.14	CAD	NEO

July 25, 2019	09:43:06	EDT	200	2.14	CAD	TSX
July 25, 2019	09:43:06	EDT	200	2.14	CAD	TSX
July 25, 2019	09:43:06	EDT	800	2.14	CAD	NEO
July 25, 2019	09:50:16	EDT	1500	2.12	CAD	TSX
July 25, 2019	09:50:16	EDT	1500	2.12	CAD	NEO
July 25, 2019	09:50:16	EDT	200	2.12	CAD	TSX
July 25, 2019	09:50:16	EDT	1200	2.12	CAD	TSX
July 25, 2019	09:50:16	EDT	100	2.12	CAD	TSX
July 25, 2019	09:50:16	EDT	600	2.12	CAD	NEO
July 25, 2019	09:50:36	EDT	100	2.12	CAD	TSX
July 25, 2019	09:50:36	EDT	900	2.12	CAD	NEO
July 25, 2019	09:50:36	EDT	200	2.12	CAD	NEO
July 25, 2019	09:57:54	EDT	1100	2.12	CAD	NEO
July 25, 2019	10:01:00	EDT	100	2.12	CAD	NEO
July 25, 2019	10:01:00	EDT	700	2.12	CAD	TSX
July 25, 2019	10:01:00	EDT	1000	2.12	CAD	Chi-X
July 25, 2019	10:01:00	EDT	100	2.12	CAD	Chi-X
July 25, 2019	10:01:00	EDT	100	2.115	CAD	TSX
July 25, 2019	10:01:00	EDT	100	2.12	CAD	Chi-X
July 25, 2019	10:03:01	EDT	300	2.12	CAD	TSX
July 25, 2019	10:03:01	EDT	100	2.12	CAD	Chi-X
July 25, 2019	10:03:01	EDT	100	2.12	CAD	Chi-X
July 25, 2019	10:03:01	EDT	1000	2.12	CAD	Chi-X
July 25, 2019	10:06:06	EDT	100	2.12	CAD	Chi-X
July 25, 2019	10:06:06	EDT	100	2.12	CAD	NEO
July 25, 2019	10:06:06	EDT	1200	2.12	CAD	NEO
July 25, 2019	10:06:06	EDT	600	2.12	CAD	Chi-X
July 25, 2019	10:08:08	EDT	1100	2.12	CAD	TSX
July 25, 2019	10:10:09	EDT	900	2.12	CAD	NEO
July 25, 2019	10:13:04	EDT	400	2.11	CAD	TSX
July 25, 2019	10:13:04	EDT	1000	2.11	CAD	NEO
July 25, 2019	10:13:04	EDT	1300	2.11	CAD	TSX
July 25, 2019	10:13:04	EDT	300	2.11	CAD	NEO
July 25, 2019	10:13:04	EDT	100	2.11	CAD	NEO
July 25, 2019	10:13:04	EDT	400	2.11	CAD	NEO
July 25, 2019	10:20:52	EDT	100	2.105	CAD	TSX
July 25, 2019	10:20:52	EDT	900	2.11	CAD	TSX
July 25, 2019	10:20:52	EDT	100	2.11	CAD	TSX
July 25, 2019	10:22:54	EDT	100	2.11	CAD	TSX
July 25, 2019	10:22:54	EDT	500	2.11	CAD	TSX
July 25, 2019	10:22:54	EDT	100	2.11	CAD	TSX
July 25, 2019	10:22:54	EDT	100	2.105	CAD	TSX
July 25, 2019	10:24:56	EDT	100	2.11	CAD	TSX
July 25, 2019	10:24:56	EDT	900	2.11	CAD	TSX
July 25, 2019	10:37:32	EDT	7400	2.11	CAD	TSX
July 25, 2019	10:37:32	EDT	100	2.11	CAD	TSX
July 25, 2019	10:39:11	EDT	100	2.1	CAD	NEO
July 25, 2019	10:39:23	EDT	100	2.1	CAD	NEO
July 25, 2019	10:39:35	EDT	100	2.1	CAD	NEO
July 25, 2019	10:39:47	EDT	100	2.1	CAD	NEO

July 25, 2019	10:39:59	EDT	100	2.1	CAD	NEO
July 25, 2019	10:41:42	EDT	100	2.105	CAD	TSX
July 25, 2019	10:41:42	EDT	200	2.11	CAD	TSX
July 25, 2019	10:41:42	EDT	100	2.11	CAD	TSX
July 25, 2019	10:41:42	EDT	2800	2.11	CAD	TSX
July 25, 2019	10:42:52	EDT	100	2.1	CAD	NEO
July 25, 2019	10:43:57	EDT	100	2.1	CAD	NEO
July 25, 2019	10:44:47	EDT	200	2.11	CAD	TSX
July 25, 2019	10:44:47	EDT	500	2.11	CAD	TSX
July 25, 2019	10:44:47	EDT	800	2.11	CAD	TSX
July 25, 2019	10:45:12	EDT	100	2.1	CAD	NEO
July 25, 2019	10:45:59	EDT	100	2.1	CAD	NEO
July 25, 2019	10:47:50	EDT	200	2.11	CAD	TSX
July 25, 2019	10:47:50	EDT	700	2.11	CAD	TSX
July 25, 2019	10:47:50	EDT	200	2.11	CAD	TSX
July 25, 2019	10:49:33	EDT	100	2.1	CAD	NEO
July 25, 2019	10:50:06	EDT	2200	2.1	CAD	NEO
July 25, 2019	10:50:06	EDT	2200	2.1	CAD	TSX
July 25, 2019	10:50:06	EDT	100	2.1	CAD	NEO
July 25, 2019	10:50:06	EDT	200	2.1	CAD	TSX
July 25, 2019	10:50:06	EDT	100	2.1	CAD	NEO
July 25, 2019	10:52:46	EDT	100	2.08	CAD	NEO
July 25, 2019	10:53:29	EDT	200	2.08	CAD	NEO
July 25, 2019	10:54:46	EDT	100	2.08	CAD	NEO
July 25, 2019	10:54:54	EDT	100	2.08	CAD	NEO
July 25, 2019	10:54:58	EDT	300	2.08	CAD	NEO
July 25, 2019	10:55:16	EDT	100	2.08	CAD	NEO
July 25, 2019	10:56:19	EDT	100	2.08	CAD	NEO
July 25, 2019	11:00:37	EDT	500	2.08	CAD	NEO
July 25, 2019	11:00:37	EDT	100	2.08	CAD	NEO
July 25, 2019	11:00:37	EDT	100	2.08	CAD	NEO
July 25, 2019	11:00:37	EDT	600	2.08	CAD	Chi-X
July 25, 2019	11:00:53	EDT	100	2.08	CAD	NEO
July 25, 2019	11:02:07	EDT	100	2.08	CAD	NEO
July 25, 2019	11:02:38	EDT	100	2.085	CAD	TSX
July 25, 2019	11:02:38	EDT	700	2.09	CAD	TSX
July 25, 2019	11:02:38	EDT	300	2.09	CAD	TSX
July 25, 2019	11:05:41	EDT	1700	2.08	CAD	NEO
July 25, 2019	11:05:41	EDT	900	2.08	CAD	TSX
July 25, 2019	11:05:41	EDT	900	2.08	CAD	TSX
July 25, 2019	11:05:41	EDT	100	2.08	CAD	TSX
July 25, 2019	11:05:41	EDT	400	2.08	CAD	TSX
July 25, 2019	11:05:41	EDT	600	2.08	CAD	NEO
July 25, 2019	11:12:20	EDT	100	2.065	CAD	TSX
July 25, 2019	11:12:20	EDT	300	2.07	CAD	TSX
July 25, 2019	11:12:20	EDT	900	2.07	CAD	TSX
July 25, 2019	11:13:23	EDT	100	2.07	CAD	NEO
July 25, 2019	11:13:23	EDT	400	2.07	CAD	NEO
July 25, 2019	11:13:23	EDT	100	2.07	CAD	NEO
July 25, 2019	11:13:23	EDT	100	2.07	CAD	NEO

July 25, 2019	11:13:23	EDT	100	2.07	CAD	NEO
July 25, 2019	11:17:31	EDT	1500	2.07	CAD	Chi-X
July 25, 2019	11:17:31	EDT	500	2.07	CAD	Chi-X
July 25, 2019	11:17:31	EDT	100	2.065	CAD	Chi-X
July 25, 2019	11:17:31	EDT	200	2.07	CAD	NEO
July 25, 2019	11:17:31	EDT	100	2.07	CAD	NEO
July 25, 2019	11:30:01	EDT	800	2.07	CAD	NEO
July 25, 2019	11:30:01	EDT	1600	2.07	CAD	NEO
July 25, 2019	11:30:01	EDT	800	2.07	CAD	NEO
July 25, 2019	11:30:01	EDT	100	2.07	CAD	TSX
July 25, 2019	11:30:01	EDT	100	2.07	CAD	TSX
July 25, 2019	11:30:01	EDT	600	2.07	CAD	TSX
July 25, 2019	11:30:01	EDT	100	2.07	CAD	NEO
July 25, 2019	11:30:01	EDT	100	2.07	CAD	NEO
July 25, 2019	11:30:01	EDT	200	2.07	CAD	TSX
July 25, 2019	11:30:01	EDT	4500	2.07	CAD	TSX
July 25, 2019	11:31:02	EDT	100	2.07	CAD	TSX
July 25, 2019	11:31:11	EDT	800	2.07	CAD	TSX
July 25, 2019	11:31:11	EDT	1000	2.07	CAD	NEO
July 25, 2019	11:31:11	EDT	300	2.07	CAD	NEO
July 25, 2019	11:31:38	EDT	300	2.07	CAD	TSX
July 25, 2019	11:39:35	EDT	100	2.07	CAD	NEO
July 25, 2019	11:39:35	EDT	100	2.07	CAD	NEO
July 25, 2019	11:39:35	EDT	300	2.07	CAD	NEO
July 25, 2019	11:39:35	EDT	100	2.07	CAD	Chi-X
July 25, 2019	11:39:35	EDT	100	2.07	CAD	NEO
July 25, 2019	11:39:35	EDT	100	2.07	CAD	NEO
July 25, 2019	11:39:35	EDT	100	2.07	CAD	NEO
July 25, 2019	11:39:35	EDT	300	2.07	CAD	NEO
July 25, 2019	11:39:35	EDT	100	2.07	CAD	NEO
July 25, 2019	11:39:35	EDT	100	2.07	CAD	NEO
July 25, 2019	11:43:20	EDT	500	2.06	CAD	NEO
July 25, 2019	11:43:29	EDT	1500	2.06	CAD	NEO
July 25, 2019	11:43:29	EDT	300	2.06	CAD	NEO
July 25, 2019	11:43:29	EDT	2300	2.06	CAD	TSX
July 25, 2019	11:53:56	EDT	500	2.05	CAD	NEO
July 25, 2019	11:54:04	EDT	800	2.05	CAD	Pure
July 25, 2019	11:54:41	EDT	1000	2.04	CAD	TSX
July 25, 2019	11:54:41	EDT	800	2.04	CAD	NEO
July 25, 2019	11:54:41	EDT	200	2.04	CAD	NEO
July 25, 2019	11:54:41	EDT	200	2.04	CAD	TSX
July 25, 2019	11:55:04	EDT	100	2.04	CAD	TSX
July 25, 2019	11:55:27	EDT	100	2.04	CAD	TSX
July 25, 2019	11:55:50	EDT	100	2.04	CAD	TSX
July 25, 2019	11:56:14	EDT	100	2.04	CAD	TSX
July 25, 2019	11:56:37	EDT	100	2.04	CAD	TSX
July 25, 2019	12:04:36	EDT	100	2.04	CAD	NEO
July 25, 2019	12:05:36	EDT	900	2.04	CAD	TSX
July 25, 2019	12:06:09	EDT	100	2.04	CAD	TSX
July 25, 2019	12:06:33	EDT	100	2.04	CAD	TSX

July 25, 2019	12:07:39	EDT	100	2.05	CAD	TSX
July 25, 2019	12:07:39	EDT	200	2.05	CAD	TSX
July 25, 2019	12:07:39	EDT	800	2.05	CAD	TSX
July 25, 2019	12:07:39	EDT	300	2.05	CAD	TSX
July 25, 2019	12:12:48	EDT	2100	2.06	CAD	NEO
July 25, 2019	12:13:50	EDT	1300	2.06	CAD	NEO
July 25, 2019	12:16:51	EDT	1100	2.06	CAD	NEO
July 25, 2019	12:20:52	EDT	300	2.06	CAD	TSX
July 25, 2019	12:20:52	EDT	500	2.06	CAD	NEO
July 25, 2019	12:20:52	EDT	100	2.06	CAD	NEO
July 25, 2019	12:38:22	EDT	2400	2.06	CAD	NEO
July 25, 2019	12:38:22	EDT	2300	2.06	CAD	TSX
July 25, 2019	12:38:22	EDT	100	2.06	CAD	NEO
July 25, 2019	12:38:22	EDT	400	2.06	CAD	TSX
July 25, 2019	12:38:22	EDT	100	2.06	CAD	TSX
July 25, 2019	12:41:23	EDT	200	2.06	CAD	Omega
July 25, 2019	12:41:23	EDT	300	2.06	CAD	Omega
July 25, 2019	12:41:23	EDT	500	2.06	CAD	Omega
July 25, 2019	13:17:51	EDT	400	2.07	CAD	TSX
July 25, 2019	13:17:51	EDT	1000	2.07	CAD	TSX
July 25, 2019	13:17:51	EDT	1000	2.07	CAD	TSX
July 25, 2019	13:17:51	EDT	300	2.07	CAD	TSX
July 25, 2019	13:17:51	EDT	6600	2.07	CAD	TSX
July 25, 2019	13:17:51	EDT	2000	2.07	CAD	TSX
July 25, 2019	13:26:02	EDT	400	2.07	CAD	TSX
July 25, 2019	13:26:02	EDT	1400	2.07	CAD	TSX
July 25, 2019	13:26:02	EDT	100	2.07	CAD	TSX
July 25, 2019	13:26:02	EDT	1000	2.07	CAD	TSX
July 25, 2019	13:30:04	EDT	600	2.07	CAD	Pure
July 25, 2019	13:30:04	EDT	200	2.07	CAD	NEO
July 25, 2019	13:30:04	EDT	100	2.07	CAD	NEO
July 25, 2019	13:30:04	EDT	100	2.07	CAD	NEO
July 25, 2019	13:30:04	EDT	200	2.07	CAD	NEO
July 25, 2019	13:31:28	EDT	1700	2.06	CAD	NEO
July 25, 2019	13:41:06	EDT	100	2.1	CAD	NEO
July 25, 2019	13:41:06	EDT	600	2.1	CAD	Omega
July 25, 2019	13:41:06	EDT	400	2.1	CAD	Omega
July 25, 2019	13:41:08	EDT	1600	2.09	CAD	TSX
July 25, 2019	13:41:08	EDT	100	2.09	CAD	TSX
July 25, 2019	13:42:18	EDT	1700	2.09	CAD	NEO
July 25, 2019	13:58:17	EDT	600	2.1	CAD	TSX
July 25, 2019	13:58:17	EDT	100	2.1	CAD	TSX
July 25, 2019	13:58:17	EDT	500	2.1	CAD	TSX
July 25, 2019	14:03:25	EDT	500	2.1	CAD	TSX
July 25, 2019	14:03:25	EDT	400	2.1	CAD	TSX
July 25, 2019	14:03:25	EDT	1000	2.1	CAD	TSX
July 25, 2019	14:03:25	EDT	100	2.1	CAD	TSX
July 25, 2019	14:05:46	EDT	1800	2.09	CAD	NEO
July 25, 2019	14:16:11	EDT	800	2.09	CAD	TSX
July 25, 2019	14:16:11	EDT	500	2.09	CAD	TSX

July 25, 2019	14:16:11	EDT	200	2.09	CAD	TSX
July 25, 2019	14:16:11	EDT	100	2.09	CAD	NEO
July 25, 2019	14:16:11	EDT	1400	2.09	CAD	TSX
July 25, 2019	14:16:17	EDT	100	2.09	CAD	NEO
July 25, 2019	14:16:43	EDT	1200	2.09	CAD	TSX
July 25, 2019	14:16:43	EDT	700	2.09	CAD	NEO
July 25, 2019	14:16:56	EDT	100	2.09	CAD	TSX
July 25, 2019	14:16:56	EDT	100	2.09	CAD	TSX
July 25, 2019	14:16:56	EDT	200	2.09	CAD	TSX
July 25, 2019	14:16:59	EDT	300	2.09	CAD	NEO
July 25, 2019	14:17:19	EDT	100	2.09	CAD	NEO
July 25, 2019	14:17:40	EDT	100	2.09	CAD	NEO
July 25, 2019	14:17:40	EDT	400	2.09	CAD	Chi-X
July 25, 2019	14:24:55	EDT	1000	2.08	CAD	NEO
July 25, 2019	14:24:55	EDT	100	2.08	CAD	NEO
July 25, 2019	14:24:55	EDT	1000	2.08	CAD	TSX
July 25, 2019	14:25:02	EDT	1400	2.07	CAD	TSX
July 25, 2019	14:25:03	EDT	100	2.07	CAD	TSX
July 25, 2019	14:25:03	EDT	1300	2.07	CAD	TSX
July 25, 2019	14:35:54	EDT	100	2.07	CAD	NEO
July 25, 2019	14:35:54	EDT	100	2.07	CAD	NEO
July 25, 2019	14:35:54	EDT	100	2.07	CAD	NEO
July 25, 2019	14:35:54	EDT	100	2.07	CAD	NEO
July 25, 2019	14:35:54	EDT	600	2.07	CAD	NEO
July 25, 2019	14:35:54	EDT	100	2.07	CAD	NEO
July 25, 2019	14:35:54	EDT	100	2.07	CAD	NEO
July 25, 2019	14:35:54	EDT	100	2.07	CAD	NEO
July 25, 2019	14:35:54	EDT	100	2.07	CAD	NEO
July 25, 2019	14:35:54	EDT	1000	2.07	CAD	NEO
July 25, 2019	14:39:56	EDT	500	2.07	CAD	TSX
July 25, 2019	14:39:56	EDT	1000	2.07	CAD	TSX
July 25, 2019	14:39:56	EDT	200	2.07	CAD	TSX
July 25, 2019	14:40:42	EDT	400	2.06	CAD	TSX
July 25, 2019	14:40:42	EDT	200	2.06	CAD	TSX
July 25, 2019	14:40:42	EDT	200	2.06	CAD	TSX
July 25, 2019	14:40:42	EDT	500	2.06	CAD	TSX
July 25, 2019	14:40:51	EDT	100	2.06	CAD	TSX
July 25, 2019	14:41:01	EDT	100	2.06	CAD	TSX
July 25, 2019	14:41:22	EDT	100	2.06	CAD	TSX
July 25, 2019	14:41:44	EDT	100	2.06	CAD	TSX
July 25, 2019	14:42:06	EDT	100	2.06	CAD	TSX
July 25, 2019	14:46:59	EDT	500	2.07	CAD	TSX
July 25, 2019	14:46:59	EDT	700	2.07	CAD	TSX
July 25, 2019	14:49:00	EDT	500	2.07	CAD	TSX
July 25, 2019	14:49:00	EDT	300	2.07	CAD	TSX
July 25, 2019	14:49:00	EDT	100	2.07	CAD	TSX
July 25, 2019	14:56:07	EDT	500	2.07	CAD	TSX
July 25, 2019	14:56:07	EDT	700	2.07	CAD	TSX
July 25, 2019	14:56:07	EDT	900	2.07	CAD	TSX
July 25, 2019	14:56:07	EDT	200	2.07	CAD	TSX

July 25, 2019	15:05:03	EDT	100	2.07	CAD	TSX
July 25, 2019	15:05:03	EDT	2000	2.07	CAD	NEO
July 25, 2019	15:05:03	EDT	500	2.07	CAD	TSX
July 25, 2019	15:05:03	EDT	7700	2.07	CAD	TSX
July 25, 2019	15:05:03	EDT	25	2.07	CAD	TSX
July 25, 2019	15:05:03	EDT	700	2.07	CAD	TSX
July 25, 2019	15:05:03	EDT	1700	2.07	CAD	NEO
July 25, 2019	15:05:03	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:03	EDT	1000	2.07	CAD	NEO
July 25, 2019	15:05:03	EDT	1500	2.07	CAD	NEO
July 25, 2019	15:05:03	EDT	600	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	Chi-X
July 25, 2019	15:05:04	EDT	600	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	200	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 25, 2019	15:05:04	EDT	100	2.07	CAD	NEO
July 26, 2019	09:33:23	EDT	600	2.08	CAD	TSX
July 26, 2019	09:33:23	EDT	1000	2.08	CAD	TSX
July 26, 2019	09:33:23	EDT	2200	2.08	CAD	NEO
July 26, 2019	09:33:23	EDT	500	2.08	CAD	TSX
July 26, 2019	09:33:23	EDT	100	2.08	CAD	NEO
July 26, 2019	09:33:23	EDT	200	2.08	CAD	TSX
July 26, 2019	09:37:12	EDT	800	2.07	CAD	Chi-X
July 26, 2019	09:39:15	EDT	1200	2.07	CAD	TSX
July 26, 2019	09:39:15	EDT	600	2.07	CAD	Chi-X
July 26, 2019	09:40:18	EDT	500	2.08	CAD	TSX
July 26, 2019	09:40:18	EDT	600	2.08	CAD	Chi-X
July 26, 2019	09:42:21	EDT	500	2.1	CAD	TSX
July 26, 2019	09:42:21	EDT	200	2.1	CAD	Chi-X
July 26, 2019	09:42:21	EDT	200	2.1	CAD	Chi-X
July 26, 2019	09:42:21	EDT	600	2.1	CAD	TSX
July 26, 2019	09:44:26	EDT	300	2.11	CAD	TSX
July 26, 2019	09:44:26	EDT	400	2.11	CAD	TSX
July 26, 2019	09:44:26	EDT	600	2.11	CAD	TSX
July 26, 2019	09:44:26	EDT	200	2.11	CAD	Chi-X
July 26, 2019	09:44:26	EDT	200	2.11	CAD	Chi-X
July 26, 2019	09:52:43	EDT	900	2.11	CAD	NEO
July 26, 2019	09:52:43	EDT	700	2.11	CAD	TSX
July 26, 2019	09:55:24	EDT	400	2.11	CAD	NEO
July 26, 2019	09:59:42	EDT	1900	2.11	CAD	TSX
July 26, 2019	09:59:42	EDT	1600	2.11	CAD	NEO

July 26, 2019	09:59:50	EDT	1900	2.11	CAD	TSX
July 26, 2019	10:00:04	EDT	100	2.11	CAD	TSX
July 26, 2019	10:03:28	EDT	1000	2.1	CAD	TSX
July 26, 2019	10:05:42	EDT	1100	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	1200	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	100	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	1100	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	200	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	200	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	500	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	100	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	200	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	100	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	100	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	100	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	800	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	200	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	400	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	400	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	300	2.1	CAD	TSX
July 26, 2019	10:06:55	EDT	200	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	200	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	300	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	500	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	600	2.1	CAD	NEO
July 26, 2019	10:06:55	EDT	200	2.1	CAD	NEO
July 26, 2019	10:10:27	EDT	900	2.06	CAD	NEO
July 26, 2019	10:10:27	EDT	100	2.06	CAD	NEO
July 26, 2019	10:10:27	EDT	900	2.06	CAD	TSX
July 26, 2019	10:11:42	EDT	100	2.06	CAD	TSX
July 26, 2019	10:16:26	EDT	800	2.06	CAD	TSX
July 26, 2019	10:34:35	EDT	200	2.07	CAD	TSX
July 26, 2019	10:34:35	EDT	1700	2.07	CAD	Chi-X
July 26, 2019	10:34:35	EDT	1000	2.07	CAD	TSX
July 26, 2019	10:34:35	EDT	400	2.07	CAD	TSX
July 26, 2019	10:36:13	EDT	3600	2.07	CAD	TSX
July 26, 2019	10:36:13	EDT	2800	2.07	CAD	NEO
July 26, 2019	10:36:13	EDT	800	2.07	CAD	NEO
July 26, 2019	10:36:13	EDT	800	2.07	CAD	TSX
July 26, 2019	10:39:44	EDT	700	2.07	CAD	NEO
July 26, 2019	10:42:08	EDT	2100	2.07	CAD	TSX
July 26, 2019	10:42:08	EDT	200	2.07	CAD	TSX
July 26, 2019	10:46:46	EDT	2400	2.07	CAD	NEO
July 26, 2019	10:47:31	EDT	100	2.07	CAD	TSX
July 26, 2019	10:47:49	EDT	1300	2.07	CAD	TSX
July 26, 2019	10:47:49	EDT	600	2.07	CAD	NEO
July 26, 2019	10:48:32	EDT	100	2.07	CAD	TSX
July 26, 2019	10:48:43	EDT	700	2.07	CAD	NEO
July 26, 2019	10:54:48	EDT	200	2.07	CAD	TSX
July 26, 2019	10:54:48	EDT	1900	2.07	CAD	NEO

July 26, 2019	10:54:49	EDT	2400	2.07	CAD	TSX
July 26, 2019	10:54:49	EDT	700	2.07	CAD	NEO
July 26, 2019	11:00:43	EDT	200	2.07	CAD	TSX
July 26, 2019	11:01:08	EDT	200	2.07	CAD	TSX
July 26, 2019	11:01:08	EDT	800	2.07	CAD	NEO
July 26, 2019	11:02:08	EDT	500	2.07	CAD	TSX
July 26, 2019	11:02:08	EDT	100	2.07	CAD	TSX
July 26, 2019	11:02:08	EDT	200	2.07	CAD	NEO
July 26, 2019	11:08:52	EDT	500	2.075	CAD	Chi-X
July 26, 2019	11:08:52	EDT	1500	2.08	CAD	Chi-X
July 26, 2019	11:15:08	EDT	500	2.08	CAD	TSX
July 26, 2019	11:15:08	EDT	1000	2.08	CAD	TSX
July 26, 2019	11:15:08	EDT	400	2.08	CAD	Chi-X
July 26, 2019	11:15:08	EDT	600	2.08	CAD	Chi-X
July 26, 2019	11:15:08	EDT	300	2.08	CAD	Chi-X
July 26, 2019	11:24:11	EDT	4100	2.08	CAD	TSX
July 26, 2019	11:24:11	EDT	200	2.08	CAD	NEO
July 26, 2019	11:24:11	EDT	3900	2.08	CAD	NEO
July 26, 2019	11:24:11	EDT	200	2.08	CAD	TSX
July 26, 2019	11:28:52	EDT	1400	2.09	CAD	Pure
July 26, 2019	11:32:55	EDT	1200	2.1	CAD	NEO
July 26, 2019	11:34:56	EDT	800	2.1	CAD	NEO
July 26, 2019	11:37:59	EDT	300	2.1	CAD	Chi-X
July 26, 2019	11:37:59	EDT	1500	2.1	CAD	Chi-X
July 26, 2019	11:37:59	EDT	500	2.1	CAD	Chi-X
July 26, 2019	11:40:35	EDT	2400	2.09	CAD	TSX
July 26, 2019	11:40:36	EDT	600	2.09	CAD	NEO
July 26, 2019	11:46:02	EDT	900	2.1	CAD	NEO
July 26, 2019	12:04:25	EDT	3000	2.09	CAD	TSX
July 26, 2019	12:04:25	EDT	800	2.09	CAD	NEO
July 26, 2019	12:04:25	EDT	1300	2.09	CAD	NEO
July 26, 2019	12:04:25	EDT	700	2.09	CAD	NEO
July 26, 2019	12:04:25	EDT	200	2.09	CAD	NEO
July 26, 2019	12:04:32	EDT	2100	2.09	CAD	TSX
July 26, 2019	12:04:32	EDT	1900	2.09	CAD	NEO
July 26, 2019	12:17:10	EDT	3100	2.09	CAD	TSX
July 26, 2019	12:17:10	EDT	3100	2.09	CAD	NEO
July 26, 2019	12:17:10	EDT	200	2.09	CAD	NEO
July 26, 2019	12:17:10	EDT	100	2.09	CAD	TSX
July 26, 2019	12:37:10	EDT	1100	2.09	CAD	TSX
July 26, 2019	12:37:10	EDT	300	2.09	CAD	Chi-X
July 26, 2019	12:37:10	EDT	700	2.09	CAD	TSX
July 26, 2019	12:39:11	EDT	300	2.09	CAD	Chi-X
July 26, 2019	12:39:11	EDT	600	2.09	CAD	Chi-X
July 26, 2019	12:43:12	EDT	500	2.09	CAD	Chi-X
July 26, 2019	12:43:12	EDT	300	2.09	CAD	Chi-X
July 26, 2019	12:47:25	EDT	1600	2.08	CAD	TSX
July 26, 2019	13:04:35	EDT	1000	2.09	CAD	Chi-X
July 26, 2019	13:04:35	EDT	500	2.09	CAD	NEO
July 26, 2019	13:04:35	EDT	600	2.09	CAD	Chi-X

July 26, 2019	13:04:35	EDT	400	2.09	CAD	Chi-X
July 26, 2019	13:04:35	EDT	800	2.09	CAD	NEO
July 26, 2019	13:04:35	EDT	1100	2.09	CAD	Chi-X
July 26, 2019	13:08:37	EDT	1300	2.09	CAD	Pure
July 26, 2019	13:10:39	EDT	800	2.09	CAD	Chi-X
July 26, 2019	13:14:45	EDT	300	2.09	CAD	TSX
July 26, 2019	13:14:45	EDT	1500	2.09	CAD	Chi-X
July 26, 2019	13:14:45	EDT	300	2.09	CAD	Chi-X
July 26, 2019	13:19:51	EDT	500	2.09	CAD	Chi-X
July 26, 2019	13:19:51	EDT	500	2.09	CAD	Chi-X
July 26, 2019	13:19:51	EDT	1000	2.09	CAD	Chi-X
July 26, 2019	13:32:06	EDT	400	2.09	CAD	TSX
July 26, 2019	13:32:06	EDT	1500	2.09	CAD	Chi-X
July 26, 2019	13:32:06	EDT	1500	2.09	CAD	Chi-X
July 26, 2019	13:35:07	EDT	400	2.09	CAD	TSX
July 26, 2019	13:35:07	EDT	500	2.09	CAD	TSX
July 26, 2019	13:39:08	EDT	800	2.09	CAD	TSX
July 26, 2019	13:42:09	EDT	100	2.09	CAD	TSX
July 26, 2019	13:42:09	EDT	700	2.09	CAD	TSX
July 26, 2019	13:47:13	EDT	1200	2.09	CAD	Pure
July 26, 2019	13:57:26	EDT	200	2.09	CAD	TSX
July 26, 2019	13:57:26	EDT	1000	2.09	CAD	TSX
July 26, 2019	13:57:26	EDT	300	2.09	CAD	Alpha
July 26, 2019	13:57:26	EDT	1000	2.09	CAD	TSX
July 26, 2019	13:57:26	EDT	500	2.09	CAD	TSX
July 26, 2019	13:59:28	EDT	800	2.09	CAD	TSX
July 26, 2019	14:03:32	EDT	1500	2.1	CAD	Pure
July 26, 2019	14:15:54	EDT	500	2.095	CAD	Chi-X
July 26, 2019	14:15:54	EDT	500	2.1	CAD	Chi-X
July 26, 2019	14:15:54	EDT	500	2.095	CAD	Chi-X
July 26, 2019	14:15:54	EDT	1500	2.1	CAD	Pure
July 26, 2019	14:15:54	EDT	500	2.1	CAD	Chi-X
July 26, 2019	14:15:54	EDT	400	2.1	CAD	Chi-X
July 26, 2019	14:15:54	EDT	300	2.1	CAD	Chi-X
July 26, 2019	14:22:10	EDT	500	2.095	CAD	Chi-X
July 26, 2019	14:22:10	EDT	1500	2.1	CAD	Pure
July 26, 2019	14:22:10	EDT	800	2.1	CAD	Chi-X
July 26, 2019	14:22:10	EDT	100	2.1	CAD	Chi-X
July 26, 2019	14:22:10	EDT	500	2.095	CAD	Chi-X
July 26, 2019	14:22:10	EDT	500	2.1	CAD	Chi-X
July 26, 2019	14:24:12	EDT	800	2.1	CAD	Pure
July 26, 2019	14:30:23	EDT	1000	2.1	CAD	TSX
July 26, 2019	14:30:23	EDT	1000	2.1	CAD	TSX
July 26, 2019	14:30:23	EDT	300	2.1	CAD	TSX
July 26, 2019	14:30:23	EDT	500	2.1	CAD	TSX
July 26, 2019	14:30:23	EDT	200	2.1	CAD	TSX
July 26, 2019	14:33:29	EDT	1800	2.11	CAD	NEO
July 26, 2019	14:36:31	EDT	900	2.11	CAD	TSX
July 26, 2019	14:36:31	EDT	600	2.11	CAD	NEO
July 26, 2019	14:36:31	EDT	300	2.11	CAD	TSX

July 26, 2019	14:38:33	EDT	900	2.11	CAD	TSX
July 26, 2019	14:45:45	EDT	2000	2.12	CAD	TSX
July 26, 2019	14:45:45	EDT	1000	2.12	CAD	Chi-X
July 26, 2019	14:57:08	EDT	1500	2.12	CAD	Pure
July 26, 2019	14:57:08	EDT	2000	2.12	CAD	Chi-X
July 26, 2019	14:57:08	EDT	600	2.12	CAD	Chi-X
July 26, 2019	14:57:08	EDT	300	2.12	CAD	Chi-X
July 26, 2019	14:58:09	EDT	300	2.12	CAD	Chi-X
July 26, 2019	14:58:09	EDT	200	2.12	CAD	Chi-X
July 26, 2019	14:58:09	EDT	300	2.12	CAD	Chi-X
July 26, 2019	15:03:19	EDT	2700	2.12	CAD	TSX
July 26, 2019	15:08:13	EDT	2800	2.13	CAD	TSX
July 26, 2019	15:08:13	EDT	2800	2.13	CAD	NEO
July 26, 2019	15:12:23	EDT	900	2.13	CAD	TSX
July 26, 2019	15:12:43	EDT	100	2.13	CAD	TSX
July 26, 2019	15:12:43	EDT	800	2.13	CAD	NEO
July 26, 2019	15:13:24	EDT	200	2.13	CAD	NEO
July 26, 2019	15:15:40	EDT	900	2.13	CAD	TSX
July 26, 2019	15:16:01	EDT	100	2.13	CAD	TSX
July 26, 2019	15:17:21	EDT	800	2.13	CAD	NEO
July 26, 2019	15:17:21	EDT	200	2.13	CAD	NEO
July 26, 2019	15:24:50	EDT	100	2.12	CAD	TSX
July 26, 2019	15:25:33	EDT	1600	2.12	CAD	TSX
July 26, 2019	15:25:39	EDT	1600	2.12	CAD	NEO
July 26, 2019	15:25:40	EDT	500	2.12	CAD	TSX
July 26, 2019	15:25:40	EDT	500	2.12	CAD	NEO