

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS January 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/01/01	03:54	4.1	02:45-04:15	OUTBD+	03:20-04:15	OUTBD+	02:45	4.0	04:15	4.1
			03:40-09:25	INBD -	03:40-04:45	INBD -	03:40	4.1	09:25	3.4
	09:07	3.3			08:30-09:25	INBD -	08:30	3.3	09:25	3.4
			08:50-14:20	OUTBD+	08:50-09:50	OUTBD+	08:50	3.3	14:20	4.4
	14:01	4.4			13:10-14:20	OUTBD+	13:10	4.4	14:20	4.4
	21:50	0.9	13:40-15:15	INBD -	13:40-14:35	INBD -	13:40	4.4	15:15	4.1
21:15-21:55			INBD -	21:35-21:55	INBD -	21:15	0.8	21:55	0.9	
				21:40-22:40	OUTBD+	21:40	0.9	22:40	1.2	
2015/01/02	04:51	4.4	03:50-05:10	OUTBD+	04:20-05:10	OUTBD+	03:50	4.3	05:10	4.4
			04:35-07:20	INBD -	04:35-05:40	INBD -	04:35	4.4	07:20	3.9
	10:11	3.4	09:00-10:25	INBD -	09:40-10:25	INBD -	09:00	3.4	10:25	3.4
			09:55-15:10	OUTBD+	09:55-10:50	OUTBD+	09:55	3.4	15:10	4.3
	14:49	4.3			13:45-15:10	OUTBD+	13:45	4.3	15:10	4.3
			14:25-16:05	INBD -	14:25-15:30	INBD -	14:25	4.3	16:05	4.1
22:39	0.8	22:05-22:45	INBD -	22:25-22:45	INBD -	22:05	0.7	22:45	0.8	
		22:30-23:25	OUTBD+	22:30-22:55	OUTBD+	22:30	0.8	23:25	1.1	
2015/01/03	05:36	4.5	04:45-05:50	OUTBD+	05:10-05:50	OUTBD+	04:45	4.5	05:50	4.5
			05:25-07:55	INBD -	05:25-06:15	INBD -	05:25	4.5	07:55	4.1
	11:03	3.4	10:00-11:15	INBD -	10:35-11:15	INBD -	10:00	3.4	11:15	3.4
			10:50-15:55	OUTBD+	10:50-11:40	OUTBD+	10:50	3.4	15:55	4.2
	15:37	4.3			14:25-15:55	OUTBD+	14:25	4.2	15:55	4.2
			15:10-16:50	INBD -	15:10-16:15	INBD -	15:10	4.3	16:50	4.0
23:24	0.8	22:50-23:30	INBD -	23:10-23:30	INBD -	22:50	0.7	23:30	0.8	
		23:20-00:05	OUTBD+	23:20-23:40	OUTBD+	23:20	0.7	00:05	1.0	
2015/01/04	06:16	4.6	05:25-06:30	OUTBD+	05:50-06:30	OUTBD+	05:25	4.6	06:30	4.6
			06:05-08:20	INBD -	06:05-06:50	INBD -	06:05	4.6	08:20	4.2
	11:48	3.3	10:50-12:00	INBD -	11:20-12:00	INBD -	10:50	3.4	12:00	3.4
			11:35-16:40	OUTBD+	11:35-12:20	OUTBD+	11:35	3.3	16:40	4.2
	16:22	4.2			15:05-16:40	OUTBD+	15:05	4.1	16:40	4.2
			15:55-17:35	INBD -	15:55-17:00	INBD -	15:55	4.2	17:35	3.9
00:05	0.8	23:35-00:10	INBD -	23:50-00:10	INBD -	23:35	0.7	00:10	0.8	
2015/01/05			00:00-00:45	OUTBD+	00:00-00:20	OUTBD+	00:00	0.7	00:45	1.0
	06:52	4.7	06:05-07:05	OUTBD+	06:30-07:05	OUTBD+	06:05	4.6	07:05	4.7
			06:40-08:35	INBD -	06:40-07:20	INBD -	06:40	4.7	08:35	4.3
	12:30	3.3	11:35-12:40	INBD -	12:05-12:40	INBD -	11:35	3.3	12:40	3.3
			12:20-17:25	OUTBD+	12:20-13:00	OUTBD+	12:20	3.3	17:25	4.1
	17:04	4.1			15:50-17:25	OUTBD+	15:50	4.0	17:25	4.1
16:35-18:15			INBD -	16:35-17:40	INBD -	16:35	4.1	18:15	3.9	
2015/01/06	00:42	0.9	00:10-00:50	INBD -	00:25-00:50	INBD -	00:10	0.8	00:50	0.9
			00:35-01:20	OUTBD+	00:35-01:00	OUTBD+	00:35	0.8	01:20	1.1
	07:26	4.7	06:40-07:35	OUTBD+	07:05-07:35	OUTBD+	06:40	4.7	07:35	4.7
			07:15-08:40	INBD -	07:15-07:50	INBD -	07:15	4.7	08:40	4.5
	13:12	3.2	12:15-13:25	INBD -	12:45-13:25	INBD -	12:15	3.2	13:25	3.2
			13:00-18:05	OUTBD+	13:00-13:40	OUTBD+	13:00	3.2	18:05	4.0
17:45	4.0			16:40-18:05	OUTBD+	16:40	3.9	18:05	4.0	
		17:20-18:55	INBD -	17:20-18:20	INBD -	17:20	4.0	18:55	3.8	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
 BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/01/07	01:16	1.0	00:40-01:20	INBD -	01:00-01:20	INBD -	00:40	0.9	01:20	1.0
			01:10-01:55	OUTBD+	01:10-01:30	OUTBD+	01:10	0.9	01:55	1.2
	07:57	4.7	07:10-08:10	OUTBD+	07:35-08:10	OUTBD+	07:10	4.7	08:10	4.7
			07:45-09:05	INBD -	07:45-08:20	INBD -	07:45	4.7	09:05	4.5
	13:54	3.1	12:55-14:05	INBD -	13:30-14:05	INBD -	12:55	3.1	14:05	3.1
18:28	3.9		13:40-18:45	OUTBD+	13:40-14:25	OUTBD+	13:40	3.1	18:45	3.9
					17:30-18:45	OUTBD+	17:30	3.8	18:45	3.9
			18:05-19:35	INBD -	18:05-19:05	INBD -	18:05	3.9	19:35	3.7
2015/01/08	01:47	1.2	01:10-01:55	INBD -	01:30-01:55	INBD -	01:10	1.1	01:55	1.2
			01:40-02:25	OUTBD+	01:40-02:05	OUTBD+	01:40	1.1	02:25	1.4
	08:27	4.7	07:40-08:40	OUTBD+	08:05-08:40	OUTBD+	07:40	4.7	08:40	4.7
			08:15-09:30	INBD -	08:15-08:55	INBD -	08:15	4.7	09:30	4.5
	14:39	2.9	13:35-14:55	INBD -	14:10-14:55	INBD -	13:35	3.0	14:55	3.0
19:13	3.7		14:25-19:30	OUTBD+	14:25-15:15	OUTBD+	14:25	2.9	19:30	3.7
					18:20-19:30	OUTBD+	18:20	3.7	19:30	3.7
			18:55-20:25	INBD -	18:55-19:45	INBD -	18:55	3.7	20:25	3.5
2015/01/09	02:15	1.4	01:30-02:25	INBD -	01:55-02:25	INBD -	01:30	1.3	02:25	1.4
			02:05-03:00	OUTBD+	02:05-02:35	OUTBD+	02:05	1.3	03:00	1.6
	08:55	4.7	08:05-09:05	OUTBD+	08:30-09:05	OUTBD+	08:05	4.6	09:05	4.7
			08:45-10:00	INBD -	08:45-09:20	INBD -	08:45	4.7	10:00	4.5
	15:25	2.8	14:15-15:40	INBD -	14:55-15:40	INBD -	14:15	2.9	15:40	2.8
20:01	3.5		15:10-20:15	OUTBD+	15:10-16:05	OUTBD+	15:10	2.8	20:15	3.5
					19:15-20:15	OUTBD+	19:15	3.5	20:15	3.5
			19:40-21:20	INBD -	19:40-20:35	INBD -	19:40	3.6	21:20	3.3
2015/01/10	02:43	1.7	01:45-02:55	INBD -	02:20-02:55	INBD -	01:45	1.6	02:55	1.7
			02:35-03:35	OUTBD+	02:35-03:05	OUTBD+	02:35	1.6	03:35	1.9
	09:22	4.6	08:25-09:35	OUTBD+	08:55-09:35	OUTBD+	08:25	4.5	09:35	4.6
			09:10-10:35	INBD -	09:10-09:50	INBD -	09:10	4.6	10:35	4.4
	16:14	2.6	15:00-16:30	INBD -	15:40-16:30	INBD -	15:00	2.7	16:30	2.6
20:53	3.4		16:00-21:10	OUTBD+	16:00-17:00	OUTBD+	16:00	2.6	21:10	3.4
					20:05-21:10	OUTBD+	20:05	3.4	21:10	3.4
			20:35-22:50	INBD -	20:35-21:35	INBD -	20:35	3.4	22:50	3.0
2015/01/11	03:11	2.0	01:55-03:25	INBD -	02:40-03:25	INBD -	01:55	2.0	03:25	2.0
			03:00-04:10	OUTBD+	03:00-03:40	OUTBD+	03:00	2.0	04:10	2.2
	09:50	4.6	08:45-10:05	OUTBD+	09:20-10:05	OUTBD+	08:45	4.4	10:05	4.6
			09:40-11:05	INBD -	09:40-10:20	INBD -	09:40	4.6	11:05	4.3
	17:04	2.4	15:45-17:25	INBD -	16:30-17:25	INBD -	15:45	2.5	17:25	2.4
21:54	3.3		16:50-22:15	OUTBD+	16:50-17:50	OUTBD+	16:50	2.4	22:15	3.2
					21:05-22:15	OUTBD+	21:05	3.2	22:15	3.2
			21:30-04:00	INBD -	21:30-22:50	INBD -	21:30	3.3	04:00	2.4
2015/01/12	03:44	2.3			03:05-04:00	INBD -	03:05	2.3	04:00	2.4
			03:25-04:55	OUTBD+	03:25-04:15	OUTBD+	03:25	2.3	04:55	2.6
	10:21	4.5	08:45-10:35	OUTBD+	09:50-10:35	OUTBD+	08:45	4.2	10:35	4.5
			10:05-11:35	INBD -	10:05-10:50	INBD -	10:05	4.5	11:35	4.3
	17:55	2.2	16:40-18:15	INBD -	17:20-18:15	INBD -	16:40	2.2	18:15	2.2
23:10	3.2		17:40-23:55	OUTBD+	17:40-18:40	OUTBD+	17:40	2.1	23:55	3.2
					22:15-23:55	OUTBD+	22:15	3.2	23:55	3.2
			22:40-04:45	INBD -	22:40-01:15	INBD -	22:40	3.2	04:45	2.7
2015/01/13	04:26	2.7			03:35-04:45	INBD -	03:35	2.7	04:45	2.7
			04:05-06:05	OUTBD+	04:05-05:10	OUTBD+	04:05	2.7	06:05	3.0
	10:56	4.4	08:00-11:10	OUTBD+	10:15-11:10	OUTBD+	08:00	3.8	11:10	4.4
			10:40-12:10	INBD -	10:40-11:30	INBD -	10:40	4.4	12:10	4.2
	18:46	1.9	17:35-19:00	INBD -	18:15-19:00	INBD -	17:35	2.0	19:00	1.9
01:04	3.4		18:30-20:50	OUTBD+	18:30-19:20	OUTBD+	18:30	1.9	20:50	2.4
				22:00-02:00	OUTBD+	23:35-02:00	OUTBD+	22:00	2.8	02:00

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/01/14			00:10-05:50	INBD -	00:10-02:50	INBD -	00:10	3.3	05:50	3.1
	05:23	3.1			04:15-05:50	INBD -	04:15	3.1	05:50	3.1
			04:55-11:50	OUTBD+	04:55-06:20	OUTBD+	04:55	3.0	11:50	4.4
	11:34	4.4			10:45-11:50	OUTBD+	10:45	4.3	11:50	4.4
			11:15-12:50	INBD -	11:15-12:10	INBD -	11:15	4.4	12:50	4.1
	19:36	1.7	18:35-19:50	INBD -	19:10-19:50	INBD -	18:35	1.7	19:50	1.7
		19:25-21:00	OUTBD+	19:25-20:05	OUTBD+	19:25	1.6	21:00	2.0	
	02:38	3.6	23:55-03:10	OUTBD+	01:20-03:10	OUTBD+	23:55	3.2	03:10	3.6
2015/01/15			02:00-07:15	INBD -	02:00-03:50	INBD -	02:00	3.6	07:15	3.4
	06:42	3.3			05:25-07:15	INBD -	05:25	3.4	07:15	3.4
			06:10-12:35	OUTBD+	06:10-07:50	OUTBD+	06:10	3.3	12:35	4.3
	12:17	4.3			11:20-12:35	OUTBD+	11:20	4.3	12:35	4.3
			11:55-13:30	INBD -	11:55-12:55	INBD -	11:55	4.3	13:30	4.1
	20:28	1.4	19:35-20:40	INBD -	20:05-20:40	INBD -	19:35	1.4	20:40	1.4
		20:15-21:30	OUTBD+	20:15-20:55	OUTBD+	20:15	1.4	21:30	1.6	
2015/01/16	03:39	3.9	01:45-04:00	OUTBD+	02:50-04:00	OUTBD+	01:45	3.6	04:00	3.9
			03:15-08:40	INBD -	03:15-04:35	INBD -	03:15	3.9	08:40	3.5
	08:12	3.5			07:00-08:40	INBD -	07:00	3.5	08:40	3.5
			07:40-13:20	OUTBD+	07:40-09:15	OUTBD+	07:40	3.5	13:20	4.3
	13:04	4.3			12:05-13:20	OUTBD+	12:05	4.3	13:20	4.3
			12:40-14:20	INBD -	12:40-13:40	INBD -	12:40	4.3	14:20	4.1
	21:20	1.1	20:35-21:30	INBD -	21:00-21:30	INBD -	20:35	1.1	21:30	1.1
			21:10-22:10	OUTBD+	21:10-21:40	OUTBD+	21:10	1.1	22:10	1.4
2015/01/17	04:30	4.2	03:10-04:50	OUTBD+	03:55-04:50	OUTBD+	03:10	4.0	04:50	4.2
			04:15-09:45	INBD -	04:15-05:10	INBD -	04:15	4.2	09:45	3.6
	09:26	3.5			08:35-09:45	INBD -	08:35	3.5	09:45	3.6
			09:05-14:15	OUTBD+	09:05-10:10	OUTBD+	09:05	3.5	14:15	4.3
	13:55	4.4			13:00-14:15	OUTBD+	13:00	4.3	14:15	4.3
			13:35-15:10	INBD -	13:35-14:30	INBD -	13:35	4.3	15:10	4.1
	22:11	0.9	21:35-22:20	INBD -	21:55-22:20	INBD -	21:35	0.8	22:20	0.9
			22:05-22:55	OUTBD+	22:05-22:30	OUTBD+	22:05	0.8	22:55	1.1
2015/01/18	05:15	4.4	04:15-05:30	OUTBD+	04:45-05:30	OUTBD+	04:15	4.3	05:30	4.4
			05:00-07:25	INBD -	05:00-05:50	INBD -	05:00	4.4	07:25	4.0
	10:24	3.5	08:35-10:40	INBD -	09:50-10:40	INBD -	08:35	3.7	10:40	3.5
			10:10-15:10	OUTBD+	10:10-10:55	OUTBD+	10:10	3.5	15:10	4.4
	14:52	4.4			14:00-15:10	OUTBD+	14:00	4.3	15:10	4.4
			14:30-16:00	INBD -	14:30-15:30	INBD -	14:30	4.4	16:00	4.2
	23:01	0.7	22:30-23:05	INBD -	22:45-23:05	INBD -	22:30	0.5	23:05	0.7
			22:55-23:40	OUTBD+	22:55-23:15	OUTBD+	22:55	0.6	23:40	0.9
2015/01/19	05:57	4.6	05:10-06:10	OUTBD+	05:35-06:10	OUTBD+	05:10	4.6	06:10	4.6
			05:45-07:25	INBD -	05:45-06:25	INBD -	05:45	4.6	07:25	4.3
	11:15	3.4	10:10-11:25	INBD -	10:50-11:25	INBD -	10:10	3.4	11:25	3.4
			11:05-12:20	OUTBD+	11:05-11:40	OUTBD+	11:05	3.4	12:20	3.6
	15:54	4.4	13:40-16:10	OUTBD+	15:00-16:10	OUTBD+	13:40	4.1	16:10	4.4
			15:30-16:55	INBD -	15:30-16:25	INBD -	15:30	4.4	16:55	4.2
	23:49	0.5	23:20-23:55	INBD -	23:35-23:55	INBD -	23:20	0.4	23:55	0.6
			23:45-00:20	OUTBD+	23:45-00:00	OUTBD+	23:45	0.5	00:20	0.8
2015/01/20	06:36	4.7	05:55-06:45	OUTBD+	06:15-06:45	OUTBD+	05:55	4.7	06:45	4.7
			06:25-07:45	INBD -	06:25-07:00	INBD -	06:25	4.7	07:45	4.5
	12:05	3.2	11:15-12:15	INBD -	11:45-12:15	INBD -	11:15	3.2	12:15	3.2
			11:55-12:55	OUTBD+	11:55-12:25	OUTBD+	11:55	3.2	12:55	3.4
	16:57	4.4	14:40-17:10	OUTBD+	16:10-17:10	OUTBD+	14:40	4.1	17:10	4.4
			16:40-17:50	INBD -	16:40-17:25	INBD -	16:40	4.5	17:50	4.2

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/01/21	00:33	0.5	00:05-00:40	INBD -	00:20-00:40	INBD -	00:05	0.4	00:40	0.5
			00:30-01:05	OUTBD+	00:30-00:45	OUTBD+	00:30	0.5	01:05	0.8
	07:14	4.8	06:35-07:20	OUTBD+	06:55-07:20	OUTBD+	06:35	4.8	07:20	4.8
			07:05-08:10	INBD -	07:05-07:35	INBD -	07:05	4.8	08:10	4.6
	12:56	3.0	12:15-13:05	INBD -	12:40-13:05	INBD -	12:15	3.0	13:05	3.0
			12:50-13:40	OUTBD+	12:50-13:15	OUTBD+	12:50	3.0	13:40	3.2
17:57	4.4	15:40-18:10	OUTBD+	17:20-18:10	OUTBD+	15:40	4.0	18:10	4.3	
		17:45-18:45	INBD -	17:45-18:20	INBD -	17:45	4.4	18:45	4.1	
2015/01/22	01:15	0.6	00:50-01:20	INBD -	01:05-01:20	INBD -	00:50	0.5	01:20	0.6
			01:10-01:45	OUTBD+	01:10-01:25	OUTBD+	01:10	0.6	01:45	0.8
	07:50	4.9	07:15-08:00	OUTBD+	07:35-08:00	OUTBD+	07:15	4.9	08:00	4.9
			07:45-08:35	INBD -	07:45-08:10	INBD -	07:45	4.9	08:35	4.7
	13:48	2.8	13:10-13:55	INBD -	13:30-13:55	INBD -	13:10	2.7	13:55	2.8
			13:40-14:35	OUTBD+	13:40-14:05	OUTBD+	13:40	2.7	14:35	3.0
18:55	4.2	16:50-19:05	OUTBD+	18:25-19:05	OUTBD+	16:50	3.9	19:05	4.2	
		18:45-19:40	INBD -	18:45-19:15	INBD -	18:45	4.3	19:40	4.0	
2015/01/23	01:56	0.9	01:30-02:00	INBD -	01:45-02:00	INBD -	01:30	0.7	02:00	0.9
			01:50-02:25	OUTBD+	01:50-02:10	OUTBD+	01:50	0.8	02:25	1.1
	08:27	4.9	07:50-08:35	OUTBD+	08:10-08:35	OUTBD+	07:50	5.0	08:35	4.9
			08:20-09:10	INBD -	08:20-08:45	INBD -	08:20	5.0	09:10	4.8
	14:42	2.5	14:05-14:50	INBD -	14:25-14:50	INBD -	14:05	2.4	14:50	2.5
			14:35-15:30	OUTBD+	14:35-15:00	OUTBD+	14:35	2.5	15:30	2.7
19:53	4.0	18:30-20:05	OUTBD+	19:25-20:05	OUTBD+	18:30	3.9	20:05	4.0	
		19:40-20:40	INBD -	19:40-20:15	INBD -	19:40	4.1	20:40	3.9	
2015/01/24	02:36	1.2	02:05-02:40	INBD -	02:20-02:40	INBD -	02:05	1.1	02:40	1.2
			02:30-03:10	OUTBD+	02:30-02:50	OUTBD+	02:30	1.2	03:10	1.4
	09:04	5.0	08:30-09:10	OUTBD+	08:45-09:10	OUTBD+	08:30	5.0	09:10	4.9
			08:55-09:45	INBD -	08:55-09:20	INBD -	08:55	5.0	09:45	4.8
	15:38	2.2	15:00-15:45	INBD -	15:20-15:45	INBD -	15:00	2.1	15:45	2.2
			15:30-16:30	OUTBD+	15:30-15:55	OUTBD+	15:30	2.2	16:30	2.4
20:53	3.9	19:45-21:05	OUTBD+	20:25-21:05	OUTBD+	19:45	3.7	21:05	3.8	
		20:40-21:50	INBD -	20:40-21:20	INBD -	20:40	3.9	21:50	3.6	
2015/01/25	03:18	1.7	02:40-03:25	INBD -	03:00-03:25	INBD -	02:40	1.6	03:25	1.7
			03:10-03:55	OUTBD+	03:10-03:35	OUTBD+	03:10	1.6	03:55	1.9
	09:42	4.9	09:00-09:50	OUTBD+	09:25-09:50	OUTBD+	09:00	4.9	09:50	4.9
			09:35-10:25	INBD -	09:35-10:00	INBD -	09:35	4.9	10:25	4.7
	16:34	1.9	15:55-16:45	INBD -	16:15-16:45	INBD -	15:55	1.9	16:45	1.9
			16:25-17:30	OUTBD+	16:25-16:55	OUTBD+	16:25	1.9	17:30	2.1
22:02	3.7	20:50-22:15	OUTBD+	21:30-22:15	OUTBD+	20:50	3.6	22:15	3.7	
		21:50-23:20	INBD -	21:50-22:35	INBD -	21:50	3.7	23:20	3.5	
2015/01/26	04:05	2.2	03:10-04:15	INBD -	03:40-04:15	INBD -	03:10	2.1	04:15	2.2
			03:55-04:55	OUTBD+	03:55-04:25	OUTBD+	03:55	2.1	04:55	2.4
	10:21	4.8	09:30-10:30	OUTBD+	10:00-10:30	OUTBD+	09:30	4.7	10:30	4.8
			10:10-11:10	INBD -	10:10-10:45	INBD -	10:10	4.8	11:10	4.6
	17:32	1.7	16:50-17:40	INBD -	17:15-17:40	INBD -	16:50	1.6	17:40	1.7
			17:25-18:30	OUTBD+	17:25-17:55	OUTBD+	17:25	1.6	18:30	1.9
23:27	3.6	22:00-23:45	OUTBD+	22:45-23:45	OUTBD+	22:00	3.4	23:45	3.6	
		23:10-01:10	INBD -	23:10-00:10	INBD -	23:10	3.6	01:10	3.4	
2015/01/27	05:01	2.7	03:30-05:15	INBD -	04:30-05:15	INBD -	03:30	2.7	05:15	2.7
			04:45-06:10	OUTBD+	04:45-05:30	OUTBD+	04:45	2.6	06:10	3.0
	11:02	4.6	09:50-11:15	OUTBD+	10:35-11:15	OUTBD+	09:50	4.5	11:15	4.6
			10:50-12:00	INBD -	10:50-11:30	INBD -	10:50	4.6	12:00	4.4
	18:30	1.4	17:50-18:40	INBD -	18:10-18:40	INBD -	17:50	1.4	18:40	1.5
			18:20-19:25	OUTBD+	18:20-18:50	OUTBD+	18:20	1.4	19:25	1.7
01:02	3.8	23:25-01:20	OUTBD+	00:20-01:20	OUTBD+	23:25	3.5	01:20	3.7	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/01/28	06:13	3.1	00:40-06:30	INBD -	00:40-01:50	INBD -	00:40	3.7	06:30	3.1
					05:25-06:30	INBD -	05:25	3.1	06:30	3.1
	11:47	4.4	05:55-12:00	OUTBD+	05:55-06:55	OUTBD+	05:55	3.1	12:00	4.4
					11:10-12:00	OUTBD+	11:10	4.4	12:00	4.4
	19:28	1.3	11:30-13:00	INBD -	11:30-12:20	INBD -	11:30	4.4	13:00	4.2
			18:45-19:40	INBD -	19:10-19:40	INBD -	18:45	1.3	19:40	1.3
19:20-20:25			OUTBD+	19:20-19:50	OUTBD+	19:20	1.3	20:25	1.5	
2015/01/29	02:27	4.0	01:05-02:45	OUTBD+	01:50-02:45	OUTBD+	01:05	3.8	02:45	4.0
					02:10-08:05	INBD -	02:10	4.0	08:05	3.4
	07:41	3.3	06:50-08:05	INBD -	06:50-08:05	INBD -	06:50	3.3	08:05	3.4
			07:20-12:55	OUTBD+	07:20-08:35	OUTBD+	07:20	3.3	12:55	4.2
	12:36	4.3			11:45-12:55	OUTBD+	11:45	4.2	12:55	4.2
			12:15-14:00	INBD -	12:15-13:15	INBD -	12:15	4.3	14:00	4.0
20:27	1.2	19:45-20:35	INBD -	20:05-20:35	INBD -	19:45	1.2	20:35	1.2	
		20:20-21:25	OUTBD+	20:20-20:50	OUTBD+	20:20	1.1	21:25	1.4	
2015/01/30	03:36	4.2	02:25-03:55	OUTBD+	03:00-03:55	OUTBD+	02:25	4.0	03:55	4.2
					03:20-09:25	INBD -	03:20	4.2	09:25	3.5
	09:03	3.4			08:20-09:25	INBD -	08:20	3.4	09:25	3.5
			08:45-13:55	OUTBD+	08:45-10:00	OUTBD+	08:45	3.4	13:55	4.1
	13:30	4.1			12:20-13:55	OUTBD+	12:20	4.1	13:55	4.1
			13:00-15:05	INBD -	13:00-14:20	INBD -	13:00	4.1	15:05	3.8
21:23	1.1	20:45-21:30	INBD -	21:05-21:30	INBD -	20:45	1.0	21:30	1.1	
		21:15-22:20	OUTBD+	21:15-21:45	OUTBD+	21:15	1.1	22:20	1.3	
2015/01/31	04:30	4.4	03:30-04:50	OUTBD+	04:00-04:50	OUTBD+	03:30	4.3	04:50	4.3
					04:15-07:10	INBD -	04:15	4.4	07:10	3.9
	10:05	3.4	08:50-10:25	INBD -	09:30-10:25	INBD -	08:50	3.4	10:25	3.4
			09:50-14:55	OUTBD+	09:50-10:55	OUTBD+	09:50	3.4	14:55	4.0
	14:29	4.1			13:10-14:55	OUTBD+	13:10	4.0	14:55	4.0
			13:55-16:00	INBD -	13:55-15:20	INBD -	13:55	4.1	16:00	3.8
22:15	1.0	21:35-22:25	INBD -	21:55-22:25	INBD -	21:35	1.0	22:25	1.0	
		22:05-23:10	OUTBD+	22:05-22:35	OUTBD+	22:05	1.0	23:10	1.3	

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS February 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/02/01	05:14	4.5	04:20-05:30	OUTBD+	04:50-05:30	OUTBD+	04:20	4.4	05:30	4.5
			05:00-07:35	INBD -	05:00-05:55	INBD -	05:00	4.5	07:35	4.0
	10:53	3.3	09:50-11:10	INBD -	10:25-11:10	INBD -	09:50	3.3	11:10	3.3
			10:40-15:50	OUTBD+	10:40-11:30	OUTBD+	10:40	3.3	15:50	4.0
	15:28	4.1			14:00-15:50	OUTBD+	14:00	3.9	15:50	4.0
			14:55-16:50	INBD -	14:55-16:15	INBD -	14:55	4.0	16:50	3.8
2015/02/01	22:59	1.0	22:25-23:10	INBD -	22:45-23:10	INBD -	22:25	0.9	23:10	1.0
			22:55-23:50	OUTBD+	22:55-23:20	OUTBD+	22:55	1.0	23:50	1.3
2015/02/02	05:51	4.5	05:05-06:05	OUTBD+	05:30-06:05	OUTBD+	05:05	4.5	06:05	4.5
			05:40-07:55	INBD -	05:40-06:20	INBD -	05:40	4.5	07:55	4.1
	11:34	3.2	10:40-11:45	INBD -	11:10-11:45	INBD -	10:40	3.2	11:45	3.2
			11:25-16:40	OUTBD+	11:25-12:05	OUTBD+	11:25	3.1	16:40	4.0
	16:20	4.0			15:05-16:40	OUTBD+	15:05	4.0	16:40	4.0
			15:50-17:30	INBD -	15:50-17:00	INBD -	15:50	4.0	17:30	3.8
2015/02/02	23:40	1.0	23:05-23:45	INBD -	23:25-23:45	INBD -	23:05	1.0	23:45	1.0
			23:35-00:25	OUTBD+	23:35-00:00	OUTBD+	23:35	1.0	00:25	1.3
2015/02/03	06:24	4.6	05:40-06:35	OUTBD+	06:00-06:35	OUTBD+	05:40	4.5	06:35	4.5
			06:15-07:50	INBD -	06:15-06:50	INBD -	06:15	4.6	07:50	4.3
	12:13	3.0	11:25-12:25	INBD -	11:50-12:25	INBD -	11:25	3.0	12:25	3.1
			12:05-17:25	OUTBD+	12:05-12:40	OUTBD+	12:05	3.0	17:25	4.0
	17:05	4.0			16:05-17:25	OUTBD+	16:05	4.0	17:25	4.0
			16:45-18:10	INBD -	16:45-17:40	INBD -	16:45	4.0	18:10	3.8
2015/02/03	00:15	1.1	23:40-00:20	INBD -	00:00-00:20	INBD -	23:40	1.0	00:20	1.1
			00:10-00:55	OUTBD+	00:10-00:30	OUTBD+	00:10	1.1	00:55	1.3
	06:54	4.6	06:10-07:05	OUTBD+	06:35-07:05	OUTBD+	06:10	4.5	07:05	4.6
			06:45-08:00	INBD -	06:45-07:15	INBD -	06:45	4.6	08:00	4.3
2015/02/04	12:50	2.9	12:05-13:00	INBD -	12:30-13:00	INBD -	12:05	2.9	13:00	2.9
			12:40-14:05	OUTBD+	12:40-13:15	OUTBD+	12:40	2.9	14:05	3.2
	17:48	4.0	15:00-18:05	OUTBD+	17:00-18:05	OUTBD+	15:00	3.5	18:05	4.0
			17:30-18:50	INBD -	17:30-18:20	INBD -	17:30	4.0	18:50	3.8
2015/02/05	00:48	1.2	00:15-00:55	INBD -	00:30-00:55	INBD -	00:15	1.1	00:55	1.2
			00:40-01:25	OUTBD+	00:40-01:05	OUTBD+	00:40	1.2	01:25	1.4
	07:21	4.6	06:35-07:30	OUTBD+	07:00-07:30	OUTBD+	06:35	4.5	07:30	4.6
			07:10-08:20	INBD -	07:10-07:45	INBD -	07:10	4.6	08:20	4.4
	13:27	2.7	12:40-13:35	INBD -	13:05-13:35	INBD -	12:40	2.7	13:35	2.8
			13:20-14:35	OUTBD+	13:20-13:50	OUTBD+	13:20	2.7	14:35	3.0
2015/02/05	18:29	3.9	16:05-18:45	OUTBD+	17:50-18:45	OUTBD+	16:05	3.5	18:45	3.9
			18:15-19:30	INBD -	18:15-19:00	INBD -	18:15	3.9	19:30	3.7
2015/02/06	01:18	1.4	00:40-01:25	INBD -	01:00-01:25	INBD -	00:40	1.3	01:25	1.4
			01:10-01:55	OUTBD+	01:10-01:35	OUTBD+	01:10	1.4	01:55	1.6
	07:46	4.5	07:00-07:55	OUTBD+	07:25-07:55	OUTBD+	07:00	4.5	07:55	4.5
			07:35-08:40	INBD -	07:35-08:10	INBD -	07:35	4.6	08:40	4.4
	14:05	2.6	13:15-14:15	INBD -	13:45-14:15	INBD -	13:15	2.6	14:15	2.6
			13:55-15:10	OUTBD+	13:55-14:30	OUTBD+	13:55	2.6	15:10	2.8
	19:12	3.8	17:15-19:25	OUTBD+	18:35-19:25	OUTBD+	17:15	3.6	19:25	3.8
			18:55-20:15	INBD -	18:55-19:40	INBD -	18:55	3.9	20:15	3.6

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
 BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/02/07	01:46	1.6	01:05-01:55	INBD -	01:25-01:55	INBD -	01:05	1.6	01:55	1.6
			01:40-02:30	OUTBD+	01:40-02:05	OUTBD+	01:40	1.6	02:30	1.8
	08:10	4.5	07:20-08:20	OUTBD+	07:50-08:20	OUTBD+	07:20	4.5	08:20	4.5
			08:00-09:05	INBD -	08:00-08:35	INBD -	08:00	4.5	09:05	4.3
	14:44	2.4	13:50-14:55	INBD -	14:20-14:55	INBD -	13:50	2.4	14:55	2.4
14:35-15:50			OUTBD+	14:35-15:10	OUTBD+	14:35	2.4	15:50	2.7	
19:56	3.7	18:15-20:10	OUTBD+	19:25-20:10	OUTBD+	18:15	3.5	20:10	3.7	
		19:40-21:05	INBD -	19:40-20:25	INBD -	19:40	3.8	21:05	3.5	
2015/02/08	02:14	1.9	01:25-02:25	INBD -	01:50-02:25	INBD -	01:25	1.9	02:25	1.9
			02:05-03:00	OUTBD+	02:05-02:35	OUTBD+	02:05	1.9	03:00	2.1
	08:34	4.5	07:40-08:45	OUTBD+	08:10-08:45	OUTBD+	07:40	4.4	08:45	4.5
			08:25-09:30	INBD -	08:25-09:00	INBD -	08:25	4.5	09:30	4.3
	15:23	2.2	14:30-15:35	INBD -	15:00-15:35	INBD -	14:30	2.3	15:35	2.3
15:15-16:35			OUTBD+	15:15-15:50	OUTBD+	15:15	2.2	16:35	2.5	
20:43	3.7	19:10-21:00	OUTBD+	20:10-21:00	OUTBD+	19:10	3.5	21:00	3.6	
		20:30-22:15	INBD -	20:30-21:15	INBD -	20:30	3.7	22:15	3.3	
2015/02/09	02:44	2.2	01:40-02:55	INBD -	02:20-02:55	INBD -	01:40	2.2	02:55	2.2
			02:35-03:40	OUTBD+	02:35-03:10	OUTBD+	02:35	2.2	03:40	2.4
	09:01	4.4	07:50-09:10	OUTBD+	08:35-09:10	OUTBD+	07:50	4.3	09:10	4.4
			08:50-09:55	INBD -	08:50-09:25	INBD -	08:50	4.4	09:55	4.3
	16:06	2.1	15:05-16:20	INBD -	15:40-16:20	INBD -	15:05	2.1	16:20	2.1
15:55-17:20			OUTBD+	15:55-16:35	OUTBD+	15:55	2.1	17:20	2.4	
21:37	3.6	20:00-21:55	OUTBD+	21:00-21:55	OUTBD+	20:00	3.3	21:55	3.6	
		21:20-00:35	INBD -	21:20-22:20	INBD -	21:20	3.6	00:35	3.0	
2015/02/10	03:19	2.5	01:45-03:35	INBD -	02:45-03:35	INBD -	01:45	2.6	03:35	2.5
			03:05-04:25	OUTBD+	03:05-03:50	OUTBD+	03:05	2.5	04:25	2.8
	09:30	4.4	07:05-09:45	OUTBD+	08:55-09:45	OUTBD+	07:05	3.8	09:45	4.3
			09:15-10:30	INBD -	09:15-09:55	INBD -	09:15	4.4	10:30	4.2
	16:51	1.9	15:50-17:05	INBD -	16:25-17:05	INBD -	15:50	1.9	17:05	2.0
16:40-18:05			OUTBD+	16:40-17:20	OUTBD+	16:40	1.9	18:05	2.2	
22:42	3.5	20:55-23:10	OUTBD+	22:00-23:10	OUTBD+	20:55	3.3	23:10	3.5	
		22:20-04:20	INBD -	22:20-00:00	INBD -	22:20	3.5	04:20	2.9	
2015/02/11	04:02	2.8			03:20-04:20	INBD -	03:20	2.8	04:20	2.9
			03:45-05:30	OUTBD+	03:45-04:40	OUTBD+	03:45	2.8	05:30	3.1
	10:02	4.3	07:05-10:20	OUTBD+	09:10-10:20	OUTBD+	07:05	3.7	10:20	4.3
			09:45-11:10	INBD -	09:45-10:35	INBD -	09:45	4.3	11:10	4.1
	17:41	1.8	16:40-17:55	INBD -	17:15-17:55	INBD -	16:40	1.8	17:55	1.8
17:30-18:50			OUTBD+	17:30-18:10	OUTBD+	17:30	1.7	18:50	2.0	
00:09	3.6	22:05-00:55	OUTBD+	23:10-00:55	OUTBD+	22:05	3.3	00:55	3.6	
		23:40-05:25	INBD -	23:40-01:45	INBD -	23:40	3.6	05:25	3.2	
2015/02/12	04:59	3.1			04:05-05:25	INBD -	04:05	3.2	05:25	3.2
			04:35-11:00	OUTBD+	04:35-05:50	OUTBD+	04:35	3.1	11:00	4.2
	10:41	4.2			09:20-11:00	OUTBD+	09:20	4.1	11:00	4.2
			10:15-11:55	INBD -	10:15-11:15	INBD -	10:15	4.2	11:55	4.0
	18:37	1.6	17:35-18:50	INBD -	18:10-18:50	INBD -	17:35	1.6	18:50	1.6
18:25-19:40			OUTBD+	18:25-19:05	OUTBD+	18:25	1.6	19:40	1.8	
01:47	3.8	23:35-02:20	OUTBD+	00:40-02:20	OUTBD+	23:35	3.4	02:20	3.8	
2015/02/13	06:18	3.4	01:15-06:50	INBD -	01:15-03:00	INBD -	01:15	3.8	06:50	3.4
			05:05-06:50	INBD -	05:05-06:50	INBD -	05:05	3.4	06:50	3.4
	11:29	4.1	05:45-11:50	OUTBD+	05:45-07:30	OUTBD+	05:45	3.4	11:50	4.1
			09:55-11:50	OUTBD+	09:55-11:50	OUTBD+	09:55	4.0	11:50	4.1
	19:38	1.4	11:00-12:45	INBD -	11:00-12:10	INBD -	11:00	4.1	12:45	3.9
18:45-19:50			INBD -	19:15-19:50	INBD -	18:45	1.4	19:50	1.4	
		19:30-20:35	OUTBD+	19:30-20:00	OUTBD+	19:30	1.4	20:35	1.6	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/02/14	02:59	4.0	01:15-03:25	OUTBD+	02:10-03:25	OUTBD+	01:15	3.8	03:25	4.0
			02:35-08:20	INBD -	02:35-03:55	INBD -	02:35	4.0	08:20	3.5
	07:53	3.5			06:40-08:20	INBD -	06:40	3.5	08:20	3.5
			07:20-12:45	OUTBD+	07:20-09:00	OUTBD+	07:20	3.5	12:45	4.1
	12:27	4.1			11:15-12:45	OUTBD+	11:15	4.0	12:45	4.1
20:40	1.2	12:00-13:45	INBD -	12:00-13:05	INBD -	12:00	4.1	13:45	3.9	
		19:55-20:50	INBD -	20:20-20:50	INBD -	19:55	1.1	20:50	1.2	
				20:30-21:30	OUTBD+	20:30	1.1	21:30	1.4	
2015/02/15	03:56	4.2	02:40-04:15	OUTBD+	03:20-04:15	OUTBD+	02:40	4.1	04:15	4.2
			03:40-09:30	INBD -	03:40-04:35	INBD -	03:40	4.2	09:30	3.4
	09:10	3.4			08:25-09:30	INBD -	08:25	3.4	09:30	3.4
			08:50-13:50	OUTBD+	08:50-09:55	OUTBD+	08:50	3.4	13:50	4.1
	13:32	4.2			12:40-13:50	OUTBD+	12:40	4.1	13:50	4.1
			13:10-14:50	INBD -	13:10-14:10	INBD -	13:10	4.2	14:50	3.9
21:40	1.0	21:00-21:50	INBD -	21:20-21:50	INBD -	21:00	0.9	21:50	1.0	
		21:30-22:25	OUTBD+	21:30-22:00	OUTBD+	21:30	0.9	22:25	1.2	
2015/02/16	04:43	4.4	03:45-04:55	OUTBD+	04:15-04:55	OUTBD+	03:45	4.3	04:55	4.4
			04:30-06:25	INBD -	04:30-05:15	INBD -	04:30	4.4	06:25	4.0
	10:09	3.3	08:50-10:20	INBD -	09:40-10:20	INBD -	08:50	3.3	10:20	3.3
			09:55-11:30	OUTBD+	09:55-10:40	OUTBD+	09:55	3.2	11:30	3.6
	14:43	4.2	12:30-15:00	OUTBD+	13:55-15:00	OUTBD+	12:30	3.9	15:00	4.2
			14:20-15:55	INBD -	14:20-15:20	INBD -	14:20	4.2	15:55	4.0
22:35	0.8	22:00-22:40	INBD -	22:20-22:40	INBD -	22:00	0.7	22:40	0.8	
		22:30-23:10	OUTBD+	22:30-22:50	OUTBD+	22:30	0.8	23:10	1.0	
2015/02/17	05:24	4.5	04:40-05:35	OUTBD+	05:00-05:35	OUTBD+	04:40	4.5	05:35	4.5
			05:15-06:30	INBD -	05:15-05:50	INBD -	05:15	4.5	06:30	4.3
	11:01	3.0	10:10-11:10	INBD -	10:40-11:10	INBD -	10:10	3.0	11:10	3.1
			10:50-11:55	OUTBD+	10:50-11:20	OUTBD+	10:50	3.0	11:55	3.3
	15:57	4.3	13:55-16:10	OUTBD+	15:15-16:10	OUTBD+	13:55	4.0	16:10	4.3
			15:40-16:55	INBD -	15:40-16:30	INBD -	15:40	4.3	16:55	4.1
23:24	0.7	22:55-23:30	INBD -	23:10-23:30	INBD -	22:55	0.6	23:30	0.8	
		23:20-23:55	OUTBD+	23:20-23:40	OUTBD+	23:20	0.7	23:55	1.0	
2015/02/18	06:02	4.6	05:25-06:10	OUTBD+	05:45-06:10	OUTBD+	05:25	4.7	06:10	4.6
			05:55-06:55	INBD -	05:55-06:20	INBD -	05:55	4.7	06:55	4.4
	11:51	2.8	11:15-12:00	INBD -	11:35-12:00	INBD -	11:15	2.7	12:00	2.8
			11:45-12:30	OUTBD+	11:45-12:10	OUTBD+	11:45	2.7	12:30	2.9
	17:05	4.4	15:15-17:15	OUTBD+	16:35-17:15	OUTBD+	15:15	4.1	17:15	4.3
16:50-17:50			INBD -	16:50-17:30	INBD -	16:50	4.4	17:50	4.1	
00:09	0.8	23:40-00:15	INBD -	23:55-00:15	INBD -	23:40	0.7	00:15	0.8	
2015/02/19	06:38	4.7	00:05-00:40	OUTBD+	00:05-00:20	OUTBD+	00:05	0.8	00:40	1.0
			06:05-06:45	OUTBD+	06:20-06:45	OUTBD+	06:05	4.8	06:45	4.7
			06:30-07:20	INBD -	06:30-06:55	INBD -	06:30	4.8	07:20	4.6
	12:40	2.4	12:10-12:45	INBD -	12:25-12:45	INBD -	12:10	2.4	12:45	2.5
			12:35-13:15	OUTBD+	12:35-12:55	OUTBD+	12:35	2.4	13:15	2.6
18:04	4.4	16:55-18:15	OUTBD+	17:40-18:15	OUTBD+	16:55	4.3	18:15	4.3	
		17:55-18:45	INBD -	17:55-18:25	INBD -	17:55	4.4	18:45	4.2	
2015/02/20	00:50	0.9	00:25-00:55	INBD -	00:40-00:55	INBD -	00:25	0.9	00:55	1.0
			00:45-01:20	OUTBD+	00:45-01:05	OUTBD+	00:45	0.9	01:20	1.2
	07:13	4.8	06:40-07:20	OUTBD+	07:00-07:20	OUTBD+	06:40	4.8	07:20	4.8
			07:05-07:50	INBD -	07:05-07:30	INBD -	07:05	4.8	07:50	4.6
	13:30	2.1	13:00-13:35	INBD -	13:15-13:35	INBD -	13:00	2.1	13:35	2.1
			13:25-14:05	OUTBD+	13:25-13:45	OUTBD+	13:25	2.1	14:05	2.3
18:59	4.3	18:05-19:10	OUTBD+	18:40-19:10	OUTBD+	18:05	4.3	19:10	4.3	
		18:50-19:40	INBD -	18:50-19:20	INBD -	18:50	4.3	19:40	4.1	

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/02/21	01:31	1.3	01:05-01:35	INBD -	01:20-01:35	INBD -	01:05	1.2	01:35	1.3
			01:25-02:00	OUTBD+	01:25-01:45	OUTBD+	01:25	1.2	02:00	1.4
	07:48	4.8	07:15-07:55	OUTBD+	07:35-07:55	OUTBD+	07:15	4.9	07:55	4.8
			07:40-08:25	INBD -	07:40-08:05	INBD -	07:40	4.9	08:25	4.7
	14:20	1.8	13:50-14:25	INBD -	14:05-14:25	INBD -	13:50	1.8	14:25	1.9
			14:15-14:55	OUTBD+	14:15-14:35	OUTBD+	14:15	1.8	14:55	2.0
19:54	4.2	19:05-20:05	OUTBD+	19:35-20:05	OUTBD+	19:05	4.2	20:05	4.2	
		19:45-20:40	INBD -	19:45-20:15	INBD -	19:45	4.2	20:40	4.0	
2015/02/22	02:11	1.6	01:40-02:15	INBD -	01:55-02:15	INBD -	01:40	1.6	02:15	1.6
			02:05-02:45	OUTBD+	02:05-02:25	OUTBD+	02:05	1.6	02:45	1.8
	08:24	4.8	07:45-08:30	OUTBD+	08:10-08:30	OUTBD+	07:45	4.8	08:30	4.8
			08:15-09:00	INBD -	08:15-08:40	INBD -	08:15	4.8	09:00	4.6
	15:10	1.6	14:40-15:15	INBD -	14:55-15:15	INBD -	14:40	1.5	15:15	1.6
			15:05-15:50	OUTBD+	15:05-15:25	OUTBD+	15:05	1.6	15:50	1.8
20:53	4.1	20:00-21:05	OUTBD+	20:30-21:05	OUTBD+	20:00	4.0	21:05	4.1	
		20:40-21:50	INBD -	20:40-21:15	INBD -	20:40	4.1	21:50	3.9	
2015/02/23	02:54	2.1	02:15-03:00	INBD -	02:35-03:00	INBD -	02:15	2.0	03:00	2.1
			02:45-03:35	OUTBD+	02:45-03:10	OUTBD+	02:45	2.0	03:35	2.3
	09:01	4.7	08:15-09:10	OUTBD+	08:40-09:10	OUTBD+	08:15	4.7	09:10	4.7
			08:50-09:45	INBD -	08:50-09:20	INBD -	08:50	4.7	09:45	4.5
	16:02	1.5	15:30-16:10	INBD -	15:45-16:10	INBD -	15:30	1.4	16:10	1.5
			15:55-16:45	OUTBD+	15:55-16:20	OUTBD+	15:55	1.4	16:45	1.7
21:58	4.0	20:55-22:15	OUTBD+	21:30-22:15	OUTBD+	20:55	3.9	22:15	4.0	
		21:45-23:20	INBD -	21:45-22:30	INBD -	21:45	4.0	23:20	3.7	
2015/02/24	03:43	2.5	02:45-03:55	INBD -	03:20-03:55	INBD -	02:45	2.5	03:55	2.5
			03:30-04:40	OUTBD+	03:30-04:05	OUTBD+	03:30	2.5	04:40	2.8
	09:39	4.5	08:40-09:50	OUTBD+	09:15-09:50	OUTBD+	08:40	4.5	09:50	4.5
			09:30-10:30	INBD -	09:30-10:00	INBD -	09:30	4.5	10:30	4.3
	16:55	1.4	16:15-17:05	INBD -	16:35-17:05	INBD -	16:15	1.3	17:05	1.4
			16:45-17:40	OUTBD+	16:45-17:15	OUTBD+	16:45	1.3	17:40	1.6
23:17	4.0	21:55-23:35	OUTBD+	22:40-23:35	OUTBD+	21:55	3.8	23:35	3.9	
		23:00-00:55	INBD -	23:00-23:55	INBD -	23:00	3.9	00:55	3.7	
2015/02/25	04:43	2.9	03:05-05:00	INBD -	04:05-05:00	INBD -	03:05	3.1	05:00	2.9
			04:25-06:40	OUTBD+	04:25-05:20	OUTBD+	04:25	2.9	06:40	3.4
	10:20	4.3	08:35-10:35	OUTBD+	09:45-10:35	OUTBD+	08:35	4.1	10:35	4.3
			10:05-11:30	INBD -	10:05-10:50	INBD -	10:05	4.3	11:30	4.0
	17:51	1.4	17:10-18:00	INBD -	17:30-18:00	INBD -	17:10	1.3	18:00	1.4
			17:40-18:45	OUTBD+	17:40-18:10	OUTBD+	17:40	1.3	18:45	1.6
00:40	4.0	23:15-01:00	OUTBD+	00:00-01:00	OUTBD+	23:15	3.8	01:00	4.0	
2015/02/26			00:20-06:30	INBD -	00:20-01:20	INBD -	00:20	4.0	06:30	3.2
	06:06	3.2			05:10-06:30	INBD -	05:10	3.2	06:30	3.2
			05:45-11:25	OUTBD+	05:45-07:05	OUTBD+	05:45	3.2	11:25	4.0
	11:07	4.1			10:15-11:25	OUTBD+	10:15	4.0	11:25	4.0
			10:45-12:35	INBD -	10:45-11:50	INBD -	10:45	4.1	12:35	3.8
	18:49	1.4	18:05-19:00	INBD -	18:30-19:00	INBD -	18:05	1.4	19:00	1.4
		18:40-19:45	OUTBD+	18:40-19:10	OUTBD+	18:40	1.4	19:45	1.6	
2015/02/27	01:55	4.1	00:40-02:15	OUTBD+	01:20-02:15	OUTBD+	00:40	3.9	02:15	4.1
			01:40-08:10	INBD -	01:40-02:40	INBD -	01:40	4.1	08:10	3.3
	07:41	3.3			06:50-08:10	INBD -	06:50	3.3	08:10	3.3
			07:15-12:30	OUTBD+	07:15-08:55	OUTBD+	07:15	3.3	12:30	3.8
	12:03	3.9			10:55-12:30	OUTBD+	10:55	3.8	12:30	3.8
			11:35-13:55	INBD -	11:35-13:00	INBD -	11:35	3.9	13:55	3.5
19:49	1.4	19:00-20:00	INBD -	19:25-20:00	INBD -	19:00	1.4	20:00	1.4	
		19:40-20:50	OUTBD+	19:40-20:15	OUTBD+	19:40	1.4	20:50	1.6	

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/02/28	02:59	4.2	01:55-03:15	OUTBD+	02:30-03:15	OUTBD+	01:55	4.1	03:15	4.2
			02:45-06:10	INBD -	02:45-03:45	INBD -	02:45	4.2	06:10	3.6
	08:58	3.2	07:15-09:20	INBD -	08:15-09:20	INBD -	07:15	3.4	09:20	3.2
			08:40-13:45	OUTBD+	08:40-10:00	OUTBD+	08:40	3.2	13:45	3.7
	13:11	3.8			11:45-13:45	OUTBD+	11:45	3.7	13:45	3.7
			12:35-15:05	INBD -	12:35-14:15	INBD -	12:35	3.7	15:05	3.5
	20:48	1.4	20:00-21:00	INBD -	20:25-21:00	INBD -	20:00	1.4	21:00	1.4
			20:40-21:50	OUTBD+	20:40-21:15	OUTBD+	20:40	1.4	21:50	1.6

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS March 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	SLACK WATER		OPERATIONAL TIME FRAME				WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
	TIMES	HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT				
2015/03/01	03:52	4.3	02:55-04:05	OUTBD+	03:25-04:05	OUTBD+	02:55	4.2	04:05	4.3
			03:40-06:25	INBD -	03:40-04:30	INBD -				
	09:53	3.1	08:45-10:10	INBD -	09:20-10:10	INBD -	08:45	3.1	10:10	3.1
			09:35-14:55	OUTBD+	09:35-10:40	OUTBD+				
	14:29	3.8			12:55-14:55	OUTBD+	12:55	3.6	14:55	3.7
					13:50-16:00	INBD -				
21:42	1.4			20:55-21:50	INBD -	20:55	1.4	21:50	1.4	
				21:30-22:40	OUTBD+					21:30-22:05
2015/03/02	04:35	4.4	03:45-04:50	OUTBD+	04:10-04:50	OUTBD+	03:45	4.3	04:50	4.3
			04:25-06:35	INBD -	04:25-05:05	INBD -				
	10:36	2.9	09:40-10:50	INBD -	10:10-10:50	INBD -	09:40	2.9	10:50	2.9
			10:25-15:55	OUTBD+	10:25-11:10	OUTBD+				
	15:36	3.8			14:15-15:55	OUTBD+	14:15	3.7	15:55	3.8
					15:10-16:50	INBD -				
22:28	1.4			21:45-22:35	INBD -	21:45	1.4	22:35	1.4	
				22:20-23:20	OUTBD+					22:20-22:50
2015/03/03	05:11	4.4	04:25-05:20	OUTBD+	04:50-05:20	OUTBD+	04:25	4.3	05:20	4.4
			05:00-06:30	INBD -	05:00-05:35	INBD -				
	11:14	2.7	10:25-11:25	INBD -	10:50-11:25	INBD -	10:25	2.8	11:25	2.8
			11:05-12:45	OUTBD+	11:05-11:40	OUTBD+				
	16:28	3.9	13:10-16:45	OUTBD+	15:35-16:45	OUTBD+	13:10	3.2	16:45	3.8
			16:10-17:30	INBD -	16:10-17:00	INBD -				
23:09	1.4	22:30-23:15	INBD -	22:50-23:15	INBD -	22:30	1.4	23:15	1.4	
		23:00-23:55	OUTBD+	23:00-23:30	OUTBD+					23:00
2015/03/04	05:42	4.4	04:55-05:50	OUTBD+	05:20-05:50	OUTBD+	04:55	4.3	05:50	4.4
			05:35-06:40	INBD -	05:35-06:05	INBD -				
	11:49	2.6	11:05-12:00	INBD -	11:30-12:00	INBD -	11:05	2.6	12:00	2.6
			11:40-12:50	OUTBD+	11:40-12:10	OUTBD+				
	17:12	3.9	14:55-17:25	OUTBD+	16:35-17:25	OUTBD+	14:55	3.5	17:25	3.9
			16:55-18:10	INBD -	16:55-17:40	INBD -				
23:45	1.5	23:05-23:55	INBD -	23:30-23:55	INBD -	23:05	1.5	23:55	1.5	
		23:40-00:30	OUTBD+	23:40-00:05	OUTBD+					23:40
2015/03/05	06:10	4.4	05:25-06:20	OUTBD+	05:50-06:20	OUTBD+	05:25	4.3	06:20	4.4
			06:00-07:05	INBD -	06:00-06:30	INBD -				
	12:24	2.4	11:45-12:30	INBD -	12:05-12:30	INBD -	11:45	2.4	12:30	2.4
			12:15-13:15	OUTBD+	12:15-12:45	OUTBD+				
	17:52	4.0	16:20-18:05	OUTBD+	17:20-18:05	OUTBD+	16:20	3.8	18:05	3.9
			17:40-18:50	INBD -	17:40-18:20	INBD -				
00:18	1.6	23:40-00:25	INBD -	00:00-00:25	INBD -	23:40	1.6	00:25	1.6	
2015/03/06			00:10-01:00	OUTBD+	00:10-00:35	OUTBD+	00:10	1.6	01:00	1.8
	06:35	4.4	05:50-06:45	OUTBD+	06:15-06:45	OUTBD+	05:50	4.3	06:45	4.3
			06:25-07:25	INBD -	06:25-06:55	INBD -				
	12:58	2.2	12:20-13:05	INBD -	12:40-13:05	INBD -	12:20	2.2	13:05	2.2
			12:50-13:45	OUTBD+	12:50-13:15	OUTBD+				
	18:31	4.0	17:20-18:45	OUTBD+	18:05-18:45	OUTBD+	17:20	3.9	18:45	4.0
18:20-19:30			INBD -	18:20-19:00	INBD -	18:20				

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
 BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/03/07	00:49	1.8	00:10-00:55	INBD -	00:30-00:55	INBD -	00:10	1.8	00:55	1.8
			00:40-01:30	OUTBD+	00:40-01:05	OUTBD+	00:40	1.8	01:30	2.0
	06:58	4.4	06:10-07:05	OUTBD+	06:35-07:05	OUTBD+	06:10	4.3	07:05	4.3
			06:50-07:45	INBD -	06:50-07:20	INBD -	06:50	4.4	07:45	4.2
	13:32	2.1	12:55-13:40	INBD -	13:15-13:40	INBD -	12:55	2.0	13:40	2.1
2015/03/08	19:11	4.0	13:25-14:15	OUTBD+	13:25-13:50	OUTBD+	13:25	2.0	14:15	2.2
			18:05-19:25	OUTBD+	18:45-19:25	OUTBD+	18:05	3.9	19:25	4.0
			19:00-20:10	INBD -	19:00-19:40	INBD -	19:00	4.0	20:10	3.8
	01:19	2.0	00:35-01:30	INBD -	01:00-01:30	INBD -	00:35	2.0	01:30	2.0
			01:10-02:05	OUTBD+	01:10-01:40	OUTBD+	01:10	2.0	02:05	2.2
2015/03/09	07:22	4.3	06:30-07:30	OUTBD+	07:00-07:30	OUTBD+	06:30	4.3	07:30	4.3
			07:10-08:10	INBD -	07:10-07:40	INBD -	07:10	4.3	08:10	4.2
	14:08	1.9	13:25-14:15	INBD -	13:50-14:15	INBD -	13:25	1.9	14:15	1.9
			14:00-14:50	OUTBD+	14:00-14:25	OUTBD+	14:00	1.9	14:50	2.1
	19:52	4.0	18:50-20:05	OUTBD+	19:25-20:05	OUTBD+	18:50	3.9	20:05	4.0
2015/03/10			19:40-21:00	INBD -	19:40-20:20	INBD -	19:40	4.0	21:00	3.7
	01:51	2.3	01:00-02:00	INBD -	01:30-02:00	INBD -	01:00	2.2	02:00	2.3
			01:40-02:40	OUTBD+	01:40-02:10	OUTBD+	01:40	2.2	02:40	2.4
	07:46	4.3	06:35-07:55	OUTBD+	07:20-07:55	OUTBD+	06:35	4.2	07:55	4.3
			07:35-08:35	INBD -	07:35-08:10	INBD -	07:35	4.3	08:35	4.1
2015/03/11	14:44	1.8	14:00-14:50	INBD -	14:25-14:50	INBD -	14:00	1.7	14:50	1.8
			14:35-15:30	OUTBD+	14:35-15:05	OUTBD+	14:35	1.7	15:30	2.0
	20:37	3.9	19:35-20:50	OUTBD+	20:10-20:50	OUTBD+	19:35	3.9	20:50	3.9
			20:25-22:05	INBD -	20:25-21:10	INBD -	20:25	4.0	22:05	3.7
	02:24	2.5	01:25-02:35	INBD -	02:00-02:35	INBD -	01:25	2.5	02:35	2.5
2015/03/12			02:15-03:20	OUTBD+	02:15-02:50	OUTBD+	02:15	2.5	03:20	2.7
	08:13	4.2	05:45-08:25	OUTBD+	07:40-08:25	OUTBD+	05:45	3.7	08:25	4.2
			08:00-09:05	INBD -	08:00-08:35	INBD -	08:00	4.2	09:05	4.0
	15:22	1.7	14:35-15:30	INBD -	15:00-15:30	INBD -	14:35	1.6	15:30	1.7
			15:15-16:10	OUTBD+	15:15-15:40	OUTBD+	15:15	1.6	16:10	1.9
2015/03/13	21:27	3.9	20:15-21:45	OUTBD+	20:55-21:45	OUTBD+	20:15	3.8	21:45	3.9
			21:10-23:35	INBD -	21:10-22:05	INBD -	21:10	3.9	23:35	3.5
	03:03	2.8	01:45-03:15	INBD -	02:35-03:15	INBD -	01:45	2.9	03:15	2.8
			02:50-04:10	OUTBD+	02:50-03:30	OUTBD+	02:50	2.8	04:10	3.0
	08:41	4.1	05:55-08:55	OUTBD+	07:50-08:55	OUTBD+	05:55	3.6	08:55	4.1
2015/03/14			08:25-09:40	INBD -	08:25-09:10	INBD -	08:25	4.2	09:40	4.0
	16:04	1.6	15:10-16:15	INBD -	15:40-16:15	INBD -	15:10	1.5	16:15	1.6
			15:55-16:55	OUTBD+	15:55-16:25	OUTBD+	15:55	1.5	16:55	1.8
	22:27	3.9	21:10-22:50	OUTBD+	21:50-22:50	OUTBD+	21:10	3.8	22:50	3.9
			22:10-01:20	INBD -	22:10-23:20	INBD -	22:10	3.9	01:20	3.4
2015/03/15	03:51	3.0	02:00-04:10	INBD -	03:10-04:10	INBD -	02:00	3.2	04:10	3.0
			03:35-09:30	OUTBD+	03:35-04:30	OUTBD+	03:35	3.0	09:30	4.0
	09:13	4.0			07:45-09:30	OUTBD+	07:45	3.9	09:30	4.0
			08:45-10:20	INBD -	08:45-09:50	INBD -	08:45	4.0	10:20	3.8
	16:52	1.5	15:55-17:00	INBD -	16:30-17:00	INBD -	15:55	1.5	17:00	1.5
2015/03/16			16:40-17:45	OUTBD+	16:40-17:15	OUTBD+	16:40	1.5	17:45	1.7
	23:41	3.9	22:10-00:10	OUTBD+	22:55-00:10	OUTBD+	22:10	3.7	00:10	3.9
			23:20-05:20	INBD -	23:20-00:45	INBD -	23:20	3.9	05:20	3.2
	04:54	3.2			04:00-05:20	INBD -	04:00	3.2	05:20	3.2
			04:30-10:15	OUTBD+	04:30-05:50	OUTBD+	04:30	3.2	10:15	3.9
2015/03/17	09:55	3.9			08:05-10:15	OUTBD+	08:05	3.8	10:15	3.9
			09:15-11:10	INBD -	09:15-10:35	INBD -	09:15	3.9	11:10	3.7
	17:49	1.5	16:50-18:00	INBD -	17:25-18:00	INBD -	16:50	1.4	18:00	1.5
			17:40-18:40	OUTBD+	17:40-18:10	OUTBD+	17:40	1.4	18:40	1.7
	01:01	4.0	23:25-01:25	OUTBD+	00:15-01:25	OUTBD+	23:25	3.8	01:25	4.0

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/03/14			00:40-06:50	INBD -	00:40-02:00	INBD -	00:40	4.0	06:50	3.3
	06:20	3.3			05:10-06:50	INBD -	05:10	3.3	06:50	3.3
			05:50-11:15	OUTBD+	05:50-07:40	OUTBD+	05:50	3.3	11:15	3.8
	10:54	3.8			08:55-11:15	OUTBD+	08:55	3.7	11:15	3.8
			10:20-12:15	INBD -	10:20-11:35	INBD -	10:20	3.8	12:15	3.6
	18:53	1.4	17:55-19:00	INBD -	18:30-19:00	INBD -	17:55	1.4	19:00	1.4
		18:45-19:45	OUTBD+	18:45-19:15	OUTBD+	18:45	1.4	19:45	1.6	
2015/03/15	02:12	4.1	00:45-02:30	OUTBD+	01:30-02:30	OUTBD+	00:45	4.0	02:30	4.1
			01:55-08:15	INBD -	01:55-02:55	INBD -	01:55	4.1	08:15	3.3
	07:50	3.2			06:55-08:15	INBD -	06:55	3.3	08:15	3.3
			07:25-12:25	OUTBD+	07:25-08:50	OUTBD+	07:25	3.2	12:25	3.8
	12:05	3.8			10:55-12:25	OUTBD+	10:55	3.7	12:25	3.8
			11:40-13:30	INBD -	11:40-12:45	INBD -	11:40	3.8	13:30	3.6
20:00	1.3	19:10-20:10	INBD -	19:40-20:10	INBD -	19:10	1.3	20:10	1.3	
		19:50-20:50	OUTBD+	19:50-20:20	OUTBD+	19:50	1.3	20:50	1.5	
2015/03/16	03:09	4.3	02:05-03:25	OUTBD+	02:40-03:25	OUTBD+	02:05	4.2	03:25	4.3
			02:55-04:45	INBD -	02:55-03:45	INBD -	02:55	4.3	04:45	4.0
	08:59	3.1	07:20-09:15	INBD -	08:25-09:15	INBD -	07:20	3.2	09:15	3.1
			08:45-13:45	OUTBD+	08:45-09:35	OUTBD+	08:45	3.0	13:45	3.8
	13:24	3.8			12:35-13:45	OUTBD+	12:35	3.8	13:45	3.8
			13:00-14:50	INBD -	13:00-14:05	INBD -	13:00	3.8	14:50	3.6
21:06	1.2	20:25-21:15	INBD -	20:45-21:15	INBD -	20:25	1.2	21:15	1.3	
		21:00-21:50	OUTBD+	21:00-21:25	OUTBD+	21:00	1.2	21:50	1.5	
2015/03/17	03:57	4.4	03:05-04:10	OUTBD+	03:35-04:10	OUTBD+	03:05	4.4	04:10	4.4
			03:45-05:05	INBD -	03:45-04:25	INBD -	03:45	4.4	05:05	4.2
	09:55	2.8	09:00-10:05	INBD -	09:30-10:05	INBD -	09:00	2.8	10:05	2.8
			09:45-10:55	OUTBD+	09:45-10:20	OUTBD+	09:45	2.8	10:55	3.0
	14:50	4.0	12:45-15:05	OUTBD+	14:05-15:05	OUTBD+	12:45	3.6	15:05	3.9
			14:30-16:00	INBD -	14:30-15:25	INBD -	14:30	4.0	16:00	3.7
22:04	1.2	21:30-22:10	INBD -	21:50-22:10	INBD -	21:30	1.1	22:10	1.2	
		22:00-22:45	OUTBD+	22:00-22:20	OUTBD+	22:00	1.2	22:45	1.4	
2015/03/18	04:39	4.5	03:55-04:50	OUTBD+	04:20-04:50	OUTBD+	03:55	4.5	04:50	4.5
			04:30-05:30	INBD -	04:30-05:00	INBD -	04:30	4.5	05:30	4.3
	10:45	2.4	10:05-10:55	INBD -	10:30-10:55	INBD -	10:05	2.4	10:55	2.5
			10:40-11:30	OUTBD+	10:40-11:05	OUTBD+	10:40	2.4	11:30	2.6
	16:07	4.1	14:30-16:20	OUTBD+	15:35-16:20	OUTBD+	14:30	3.9	16:20	4.1
			15:55-17:00	INBD -	15:55-16:35	INBD -	15:55	4.1	17:00	3.9
22:56	1.2	22:25-23:00	INBD -	22:40-23:00	INBD -	22:25	1.1	23:00	1.2	
		22:50-23:30	OUTBD+	22:50-23:10	OUTBD+	22:50	1.2	23:30	1.4	
2015/03/19	05:17	4.6	04:40-05:25	OUTBD+	05:00-05:25	OUTBD+	04:40	4.6	05:25	4.6
			05:10-06:00	INBD -	05:10-05:35	INBD -	05:10	4.6	06:00	4.4
	11:34	2.1	11:05-11:40	INBD -	11:20-11:40	INBD -	11:05	2.0	11:40	2.1
			11:30-12:10	OUTBD+	11:30-11:50	OUTBD+	11:30	2.1	12:10	2.3
	17:11	4.2	16:10-17:20	OUTBD+	16:45-17:20	OUTBD+	16:10	4.2	17:20	4.2
			17:00-17:55	INBD -	17:00-17:30	INBD -	17:00	4.3	17:55	4.0
23:42	1.3	23:10-23:45	INBD -	23:30-23:45	INBD -	23:10	1.3	23:45	1.3	
		23:35-00:15	OUTBD+	23:35-23:55	OUTBD+	23:35	1.3	00:15	1.5	
2015/03/20	05:54	4.7	05:20-06:00	OUTBD+	05:40-06:00	OUTBD+	05:20	4.7	06:00	4.6
			05:50-06:30	INBD -	05:50-06:10	INBD -	05:50	4.7	06:30	4.5
	12:22	1.7	11:55-12:25	INBD -	12:10-12:25	INBD -	11:55	1.7	12:25	1.7
			12:15-12:55	OUTBD+	12:15-12:35	OUTBD+	12:15	1.7	12:55	1.9
	18:08	4.3	17:20-18:15	OUTBD+	17:45-18:15	OUTBD+	17:20	4.3	18:15	4.3
			18:00-18:50	INBD -	18:00-18:25	INBD -	18:00	4.4	18:50	4.1
00:24	1.6	23:55-00:30	INBD -	00:10-00:30	INBD -	23:55	1.5	00:30	1.6	

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/03/21			00:20-00:55	OUTBD+	00:20-00:40	OUTBD+	00:20	1.5	00:55	1.7
	06:30	4.7	05:55-06:35	OUTBD+	06:15-06:35	OUTBD+	05:55	4.7	06:35	4.7
			06:25-07:05	INBD -	06:25-06:45	INBD -	06:25	4.7	07:05	4.5
	13:09	1.4	12:45-13:15	INBD -	12:55-13:15	INBD -	12:45	1.3	13:15	1.4
			13:05-13:40	OUTBD+	13:05-13:20	OUTBD+	13:05	1.4	13:40	1.6
	19:01	4.4	18:15-19:10	OUTBD+	18:40-19:10	OUTBD+	18:15	4.4	19:10	4.4
		18:50-19:45	INBD -	18:50-19:20	INBD -	18:50	4.4	19:45	4.2	
2015/03/22	01:06	1.9	00:35-01:10	INBD -	00:50-01:10	INBD -	00:35	1.8	01:10	1.9
			01:00-01:40	OUTBD+	01:00-01:20	OUTBD+	01:00	1.8	01:40	2.0
	07:06	4.6	06:30-07:10	OUTBD+	06:50-07:10	OUTBD+	06:30	4.7	07:10	4.6
			07:00-07:40	INBD -	07:00-07:20	INBD -	07:00	4.7	07:40	4.5
	13:56	1.2	13:30-14:00	INBD -	13:45-14:00	INBD -	13:30	1.1	14:00	1.2
			13:50-14:25	OUTBD+	13:50-14:10	OUTBD+	13:50	1.2	14:25	1.4
19:53	4.4	19:10-20:05	OUTBD+	19:30-20:05	OUTBD+	19:10	4.3	20:05	4.3	
		19:45-20:45	INBD -	19:45-20:15	INBD -	19:45	4.4	20:45	4.2	
2015/03/23	01:48	2.2	01:10-01:55	INBD -	01:30-01:55	INBD -	01:10	2.2	01:55	2.2
			01:40-02:25	OUTBD+	01:40-02:05	OUTBD+	01:40	2.2	02:25	2.3
	07:42	4.6	07:00-07:50	OUTBD+	07:25-07:50	OUTBD+	07:00	4.6	07:50	4.5
			07:35-08:20	INBD -	07:35-08:00	INBD -	07:35	4.6	08:20	4.4
	14:42	1.1	14:15-14:50	INBD -	14:30-14:50	INBD -	14:15	1.0	14:50	1.1
			14:35-15:15	OUTBD+	14:35-14:55	OUTBD+	14:35	1.1	15:15	1.3
20:48	4.3	19:55-21:00	OUTBD+	20:25-21:00	OUTBD+	19:55	4.2	21:00	4.3	
		20:40-21:50	INBD -	20:40-21:15	INBD -	20:40	4.3	21:50	4.1	
2015/03/24	02:34	2.5	01:50-02:45	INBD -	02:15-02:45	INBD -	01:50	2.5	02:45	2.5
			02:25-03:25	OUTBD+	02:25-02:55	OUTBD+	02:25	2.5	03:25	2.7
	08:19	4.4	07:20-08:30	OUTBD+	07:55-08:30	OUTBD+	07:20	4.4	08:30	4.4
			08:10-09:05	INBD -	08:10-08:40	INBD -	08:10	4.4	09:05	4.2
	15:29	1.1	14:55-15:35	INBD -	15:15-15:35	INBD -	14:55	1.0	15:35	1.1
			15:25-16:10	OUTBD+	15:25-15:45	OUTBD+	15:25	1.1	16:10	1.3
21:49	4.3	20:50-22:05	OUTBD+	21:20-22:05	OUTBD+	20:50	4.2	22:05	4.3	
		21:35-23:05	INBD -	21:35-22:20	INBD -	21:35	4.3	23:05	4.1	
2015/03/25	03:28	2.8	02:20-03:40	INBD -	03:00-03:40	INBD -	02:20	2.9	03:40	2.8
			03:15-04:55	OUTBD+	03:15-04:00	OUTBD+	03:15	2.8	04:55	3.1
	08:57	4.1	07:20-09:10	OUTBD+	08:25-09:10	OUTBD+	07:20	4.0	09:10	4.1
			08:45-09:55	INBD -	08:45-09:25	INBD -	08:45	4.2	09:55	3.9
	16:18	1.2	15:40-16:25	INBD -	16:00-16:25	INBD -	15:40	1.1	16:25	1.2
			16:10-17:00	OUTBD+	16:10-16:35	OUTBD+	16:10	1.1	17:00	1.4
22:57	4.3	21:45-23:15	OUTBD+	22:25-23:15	OUTBD+	21:45	4.1	23:15	4.2	
		22:40-00:20	INBD -	22:40-23:35	INBD -	22:40	4.3	00:20	4.0	
2015/03/26	04:37	3.0	02:55-05:00	INBD -	03:55-05:00	INBD -	02:55	3.2	05:00	3.1
			04:20-09:55	OUTBD+	04:20-05:25	OUTBD+	04:20	3.0	09:55	3.9
	09:38	3.9			08:55-09:55	OUTBD+	08:55	3.9	09:55	3.9
			09:20-11:00	INBD -	09:20-10:15	INBD -	09:20	3.9	11:00	3.6
	17:10	1.3	16:25-17:20	INBD -	16:50-17:20	INBD -	16:25	1.3	17:20	1.4
			17:00-18:00	OUTBD+	17:00-17:30	OUTBD+	17:00	1.3	18:00	1.6
00:07	4.2	22:50-00:25	OUTBD+	23:30-00:25	OUTBD+	22:50	4.1	00:25	4.2	
		23:50-01:40	INBD -	23:50-00:45	INBD -	23:50	4.2	01:40	4.0	
2015/03/27	06:09	3.1	03:15-06:40	INBD -	05:15-06:40	INBD -	03:15	3.5	06:40	3.2
			05:45-10:50	OUTBD+	05:45-07:25	OUTBD+	05:45	3.1	10:50	3.6
	10:28	3.6			09:25-10:50	OUTBD+	09:25	3.6	10:50	3.6
			10:00-12:20	INBD -	10:00-11:20	INBD -	10:00	3.6	12:20	3.3
	18:05	1.5	17:10-18:15	INBD -	17:40-18:15	INBD -	17:10	1.5	18:15	1.5
		17:55-19:05	OUTBD+	17:55-18:30	OUTBD+	17:55	1.5	19:05	1.7	

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PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS April 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	SLACK WATER		OPERATIONAL TIME FRAME				WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
	TIMES	HEIGHTS	2 KNOT WINDOW PERIOD	TRANSIT	1 KNOT CURRENT PERIOD	TRANSIT				
2015/04/01	04:18	4.2	03:25-04:30	OUTBD+	03:55-04:30	OUTBD+	03:25	4.2	04:30	4.2
			04:10-05:15	INBD -	04:10-04:45	INBD -				
	10:46	2.2	10:05-10:55	INBD -	10:25-10:55	INBD -	10:05	2.2	10:55	2.2
			10:40-11:50	OUTBD+	10:40-11:10	OUTBD+				
	16:31	3.7	14:25-16:45	OUTBD+	15:55-16:45	OUTBD+	14:25	3.4	16:45	3.7
			16:15-17:35	INBD -	16:15-17:00	INBD -				
22:35	1.9	21:40-22:45	INBD -	22:10-22:45	INBD -	21:40	2.0	22:45	2.0	
		22:25-23:30	OUTBD+	22:25-23:00	OUTBD+					22:25
2015/04/02	04:49	4.2	03:55-05:00	OUTBD+	04:25-05:00	OUTBD+	03:55	4.2	05:00	4.2
			04:40-05:40	INBD -	04:40-05:10	INBD -				
	11:21	2.0	10:45-11:30	INBD -	11:05-11:30	INBD -	10:45	2.0	11:30	2.0
			11:15-12:10	OUTBD+	11:15-11:40	OUTBD+				
	17:13	3.9	15:50-17:25	OUTBD+	16:40-17:25	OUTBD+	15:50	3.7	17:25	3.8
			17:00-18:15	INBD -	17:00-17:40	INBD -				
23:14	2.0	22:25-23:25	INBD -	22:50-23:25	INBD -	22:25	2.0	23:25	2.1	
		23:05-00:05	OUTBD+	23:05-23:35	OUTBD+					23:05
2015/04/03	05:16	4.2	04:20-05:25	OUTBD+	04:55-05:25	OUTBD+	04:20	4.1	05:25	4.2
			05:05-06:05	INBD -	05:05-05:40	INBD -				
	11:54	1.8	11:20-12:00	INBD -	11:40-12:00	INBD -	11:20	1.8	12:00	1.8
			11:50-12:35	OUTBD+	11:50-12:10	OUTBD+				
	17:52	4.0	16:45-18:05	OUTBD+	17:25-18:05	OUTBD+	16:45	3.9	18:05	4.0
			17:40-18:55	INBD -	17:40-18:20	INBD -				
23:49	2.2	23:05-00:00	INBD -	23:30-00:00	INBD -	23:05	2.2	00:00	2.2	
		23:40-00:40	OUTBD+	23:40-00:10	OUTBD+					23:40
2015/04/04	05:41	4.2	04:45-05:50	OUTBD+	05:20-05:50	OUTBD+	04:45	4.1	05:50	4.2
			05:30-06:30	INBD -	05:30-06:05	INBD -				
	12:28	1.7	11:55-12:35	INBD -	12:15-12:35	INBD -	11:55	1.6	12:35	1.7
			12:20-13:05	OUTBD+	12:20-12:45	OUTBD+				
	18:30	4.1	17:30-18:40	OUTBD+	18:05-18:40	OUTBD+	17:30	4.0	18:40	4.1
			18:20-19:30	INBD -	18:20-18:55	INBD -				
00:23	2.3	23:35-00:30	INBD -	00:05-00:30	INBD -	23:35	2.3	00:30	2.3	
2015/04/05	06:06	4.2	00:15-01:10	OUTBD+	00:15-00:45	OUTBD+	00:15	2.3	01:10	2.5
			05:05-06:15	OUTBD+	05:40-06:15	OUTBD+				
	13:02	1.5	05:55-06:50	INBD -	05:55-06:25	INBD -	05:55	4.2	06:50	4.0
			12:30-13:10	INBD -	12:45-13:10	INBD -				
	19:08	4.2	12:55-13:40	OUTBD+	12:55-13:20	OUTBD+	12:55	1.5	13:40	1.7
			18:15-19:20	OUTBD+	18:45-19:20	OUTBD+				
			18:55-20:15	INBD -	18:55-19:35	INBD -	18:55	4.2	20:15	3.9
2015/04/06	00:56	2.5	00:10-01:05	INBD -	00:35-01:05	INBD -	00:10	2.5	01:05	2.5
			00:50-01:45	OUTBD+	00:50-01:15	OUTBD+				
	06:31	4.2	04:15-06:40	OUTBD+	06:05-06:40	OUTBD+	04:15	3.7	06:40	4.2
			06:20-07:15	INBD -	06:20-06:55	INBD -				
	13:37	1.4	13:05-13:45	INBD -	13:20-13:45	INBD -	13:05	1.3	13:45	1.4
			13:30-14:15	OUTBD+	13:30-13:55	OUTBD+				
19:48	4.2	18:55-20:00	OUTBD+	19:25-20:00	OUTBD+	18:55	4.1	20:00	4.2	
		19:35-21:00	INBD -	19:35-20:15	INBD -					19:35

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
 BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/04/07	01:31	2.7	00:40-01:40	INBD -	01:10-01:40	INBD -	00:40	2.7	01:40	2.7
			01:20-02:25	OUTBD+	01:20-01:55	OUTBD+	01:20	2.6	02:25	2.9
	06:58	4.1	04:15-07:10	OUTBD+	06:25-07:10	OUTBD+	04:15	3.5	07:10	4.1
			06:45-07:45	INBD -	06:45-07:20	INBD -	06:45	4.1	07:45	4.0
	14:13	1.3	13:35-14:20	INBD -	13:55-14:20	INBD -	13:35	1.2	14:20	1.3
2015/04/08			14:05-14:50	OUTBD+	14:05-14:30	OUTBD+	14:05	1.2	14:50	1.5
	20:32	4.2	19:35-20:45	OUTBD+	20:05-20:45	OUTBD+	19:35	4.1	20:45	4.2
			20:20-22:00	INBD -	20:20-21:05	INBD -	20:20	4.2	22:00	4.0
	02:10	2.8	01:10-02:20	INBD -	01:45-02:20	INBD -	01:10	2.9	02:20	2.9
			02:00-03:15	OUTBD+	02:00-02:35	OUTBD+	02:00	2.8	03:15	3.1
2015/04/09	07:25	4.1	04:35-07:40	OUTBD+	06:20-07:40	OUTBD+	04:35	3.5	07:40	4.0
			07:05-08:20	INBD -	07:05-07:55	INBD -	07:05	4.1	08:20	3.9
	14:51	1.2	14:10-15:00	INBD -	14:35-15:00	INBD -	14:10	1.1	15:00	1.2
			14:45-15:30	OUTBD+	14:45-15:05	OUTBD+	14:45	1.2	15:30	1.4
	21:20	4.2	20:20-21:35	OUTBD+	20:50-21:35	OUTBD+	20:20	4.1	21:35	4.2
2015/04/10			21:05-23:00	INBD -	21:05-21:55	INBD -	21:05	4.2	23:00	3.9
	02:55	3.0	01:40-03:10	INBD -	02:25-03:10	INBD -	01:40	3.1	03:10	3.0
			02:40-08:15	OUTBD+	02:40-03:25	OUTBD+	02:40	3.0	08:15	3.9
	07:55	4.0			06:15-08:15	OUTBD+	06:15	3.8	08:15	3.9
			07:25-09:00	INBD -	07:25-08:30	INBD -	07:25	3.9	09:00	3.7
2015/04/11	15:32	1.2	14:50-15:40	INBD -	15:15-15:40	INBD -	14:50	1.1	15:40	1.2
			15:25-16:10	OUTBD+	15:25-15:50	OUTBD+	15:25	1.2	16:10	1.4
	22:16	4.2	21:10-22:35	OUTBD+	21:45-22:35	OUTBD+	21:10	4.1	22:35	4.2
			22:00-00:10	INBD -	22:00-22:55	INBD -	22:00	4.2	00:10	3.9
	03:50	3.1	02:15-04:10	INBD -	03:10-04:10	INBD -	02:15	3.3	04:10	3.2
2015/04/12			03:30-08:55	OUTBD+	03:30-04:35	OUTBD+	03:30	3.1	08:55	3.8
	08:31	3.8			06:45-08:55	OUTBD+	06:45	3.7	08:55	3.8
			07:45-09:45	INBD -	07:45-09:15	INBD -	07:45	3.8	09:45	3.6
	16:19	1.2	15:30-16:30	INBD -	16:00-16:30	INBD -	15:30	1.2	16:30	1.3
			16:10-17:05	OUTBD+	16:10-16:40	OUTBD+	16:10	1.2	17:05	1.5
2015/04/13	23:18	4.3	22:05-23:35	OUTBD+	22:45-23:35	OUTBD+	22:05	4.1	23:35	4.2
			23:00-01:10	INBD -	23:00-00:00	INBD -	23:00	4.3	01:10	3.9
	05:03	3.2	03:00-05:30	INBD -	04:10-05:30	INBD -	03:00	3.4	05:30	3.2
			04:40-09:50	OUTBD+	04:40-06:05	OUTBD+	04:40	3.2	09:50	3.6
	09:25	3.7			07:25-09:50	OUTBD+	07:25	3.5	09:50	3.6
2015/04/14			08:40-10:45	INBD -	08:40-10:10	INBD -	08:40	3.6	10:45	3.4
	17:14	1.3	16:20-17:25	INBD -	16:50-17:25	INBD -	16:20	1.3	17:25	1.4
			17:05-18:00	OUTBD+	17:05-17:35	OUTBD+	17:05	1.3	18:00	1.5
	00:23	4.3	23:10-00:40	OUTBD+	23:50-00:40	OUTBD+	23:10	4.2	00:40	4.3
	00:05-02:05		INBD -	00:05-01:05	INBD -	00:05	4.3	02:05	4.0	
2015/04/15	06:28	3.1	04:05-06:55	INBD -	05:35-06:55	INBD -	04:05	3.4	06:55	3.1
			06:05-11:00	OUTBD+	06:05-07:40	OUTBD+	06:05	3.1	11:00	3.5
	10:37	3.5			08:50-11:00	OUTBD+	08:50	3.4	11:00	3.5
			10:05-12:00	INBD -	10:05-11:20	INBD -	10:05	3.5	12:00	3.3
	18:17	1.4	17:20-18:25	INBD -	17:55-18:25	INBD -	17:20	1.4	18:25	1.4
2015/04/16			18:05-19:05	OUTBD+	18:05-18:40	OUTBD+	18:05	1.4	19:05	1.6
	01:23	4.3	00:15-01:40	OUTBD+	00:50-01:40	OUTBD+	00:15	4.2	01:40	4.3
			01:10-02:50	INBD -	01:10-02:00	INBD -	01:10	4.3	02:50	4.1
	07:42	2.9	06:10-08:00	INBD -	07:05-08:00	INBD -	06:10	3.0	08:00	2.9
			07:25-12:20	OUTBD+	07:25-08:30	OUTBD+	07:25	2.9	12:20	3.5
2015/04/17	12:00	3.5			11:00-12:20	OUTBD+	11:00	3.4	12:20	3.5
			11:35-13:30	INBD -	11:35-12:40	INBD -	11:35	3.5	13:30	3.3
	19:25	1.5	18:30-19:35	INBD -	19:00-19:35	INBD -	18:30	1.5	19:35	1.5
			19:15-20:15	OUTBD+	19:15-19:45	OUTBD+	19:15	1.5	20:15	1.7

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/04/14	02:17	4.4	01:20-02:30	OUTBD+	01:50-02:30	OUTBD+	01:20	4.3	02:30	4.4
			02:05-03:25	INBD -	02:05-02:45	INBD -	02:05	4.4	03:25	4.2
	08:43	2.6	07:45-08:55	INBD -	08:15-08:55	INBD -	07:45	2.6	08:55	2.6
			08:30-10:15	OUTBD+	08:30-09:10	OUTBD+	08:30	2.5	10:15	2.9
	13:31	3.6	11:05-13:50	OUTBD+	12:40-13:50	OUTBD+	11:05	3.1	13:50	3.5
			13:10-15:00	INBD -	13:10-14:15	INBD -	13:10	3.6	15:00	3.3
20:32	1.6	19:45-20:40	INBD -	20:10-20:40	INBD -	19:45	1.5	20:40	1.6	
		20:25-21:20	OUTBD+	20:25-20:55	OUTBD+	20:25	1.6	21:20	1.8	
2015/04/15	03:05	4.4	02:15-03:15	OUTBD+	02:40-03:15	OUTBD+	02:15	4.4	03:15	4.4
			02:55-04:00	INBD -	02:55-03:30	INBD -	02:55	4.5	04:00	4.2
	09:36	2.2	08:55-09:45	INBD -	09:15-09:45	INBD -	08:55	2.2	09:45	2.2
			09:30-10:30	OUTBD+	09:30-09:55	OUTBD+	09:30	2.2	10:30	2.4
	15:01	3.7	13:15-15:15	OUTBD+	14:20-15:15	OUTBD+	13:15	3.5	15:15	3.7
			14:45-16:10	INBD -	14:45-15:35	INBD -	14:45	3.8	16:10	3.5
21:33	1.7	20:50-21:40	INBD -	21:15-21:40	INBD -	20:50	1.6	21:40	1.7	
		21:25-22:15	OUTBD+	21:25-21:50	OUTBD+	21:25	1.7	22:15	1.9	
2015/04/16	03:48	4.5	03:00-03:55	OUTBD+	03:30-03:55	OUTBD+	03:00	4.5	03:55	4.5
			03:40-04:35	INBD -	03:40-04:10	INBD -	03:40	4.5	04:35	4.3
	10:26	1.8	09:55-10:35	INBD -	10:10-10:35	INBD -	09:55	1.7	10:35	1.8
			10:20-11:05	OUTBD+	10:20-10:40	OUTBD+	10:20	1.8	11:05	2.0
	16:15	4.0	15:05-16:25	OUTBD+	15:45-16:25	OUTBD+	15:05	3.9	16:25	4.0
			16:05-17:10	INBD -	16:05-16:40	INBD -	16:05	4.0	17:10	3.8
22:27	1.9	21:50-22:35	INBD -	22:10-22:35	INBD -	21:50	1.8	22:35	1.9	
		22:20-23:05	OUTBD+	22:20-22:45	OUTBD+	22:20	1.8	23:05	2.0	
2015/04/17	04:28	4.5	03:45-04:35	OUTBD+	04:10-04:35	OUTBD+	03:45	4.5	04:35	4.5
			04:20-05:10	INBD -	04:20-04:45	INBD -	04:20	4.6	05:10	4.4
	11:15	1.4	10:45-11:20	INBD -	11:00-11:20	INBD -	10:45	1.3	11:20	1.4
			11:10-11:45	OUTBD+	11:10-11:30	OUTBD+	11:10	1.4	11:45	1.6
	17:15	4.2	16:25-17:25	OUTBD+	16:55-17:25	OUTBD+	16:25	4.2	17:25	4.2
			17:05-18:05	INBD -	17:05-17:35	INBD -	17:05	4.2	18:05	4.0
23:16	2.0	22:40-23:20	INBD -	23:00-23:20	INBD -	22:40	2.0	23:20	2.0	
		23:10-23:55	OUTBD+	23:10-23:30	OUTBD+	23:10	2.0	23:55	2.2	
2015/04/18	05:07	4.6	04:25-05:15	OUTBD+	04:50-05:15	OUTBD+	04:25	4.6	05:15	4.5
			05:00-05:45	INBD -	05:00-05:25	INBD -	05:00	4.6	05:45	4.4
	12:01	1.1	11:35-12:05	INBD -	11:50-12:05	INBD -	11:35	1.0	12:05	1.1
			11:55-12:30	OUTBD+	11:55-12:15	OUTBD+	11:55	1.1	12:30	1.3
	18:09	4.4	17:25-18:20	OUTBD+	17:50-18:20	OUTBD+	17:25	4.3	18:20	4.3
			18:00-19:00	INBD -	18:00-18:30	INBD -	18:00	4.4	19:00	4.2
00:01	2.2	23:25-00:10	INBD -	23:45-00:10	INBD -	23:25	2.2	00:10	2.3	
		23:55-00:40	OUTBD+	23:55-00:15	OUTBD+	23:55	2.2	00:40	2.4	
2015/04/19	05:45	4.5	04:55-05:50	OUTBD+	05:25-05:50	OUTBD+	04:55	4.5	05:50	4.5
			05:35-06:20	INBD -	05:35-06:00	INBD -	05:35	4.6	06:20	4.4
	12:47	0.9	12:20-12:50	INBD -	12:35-12:50	INBD -	12:20	0.8	12:50	0.9
			12:45-13:15	OUTBD+	12:45-13:00	OUTBD+	12:45	0.8	13:15	1.1
18:59	4.5	18:15-19:10	OUTBD+	18:40-19:10	OUTBD+	18:15	4.4	19:10	4.5	
		18:50-19:55	INBD -	18:50-19:20	INBD -	18:50	4.5	19:55	4.3	
2015/04/20	00:46	2.5	00:10-00:50	INBD -	00:30-00:50	INBD -	00:10	2.4	00:50	2.5
			00:40-01:25	OUTBD+	00:40-01:00	OUTBD+	00:40	2.4	01:25	2.6
	06:23	4.5	05:25-06:30	OUTBD+	06:00-06:30	OUTBD+	05:25	4.4	06:30	4.4
			06:15-07:00	INBD -	06:15-06:40	INBD -	06:15	4.5	07:00	4.3
	13:32	0.8	13:05-13:35	INBD -	13:20-13:35	INBD -	13:05	0.7	13:35	0.8
			13:25-14:05	OUTBD+	13:25-13:45	OUTBD+	13:25	0.7	14:05	1.0
19:49	4.5	19:00-20:00	OUTBD+	19:25-20:00	OUTBD+	19:00	4.5	20:00	4.5	
		19:40-20:50	INBD -	19:40-20:15	INBD -	19:40	4.5	20:50	4.3	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/04/21	01:31	2.7	00:50-01:40	INBD -	01:10-01:40	INBD -	00:50	2.7	01:40	2.7
			01:25-02:20	OUTBD+	01:25-01:50	OUTBD+	01:25	2.7	02:20	2.9
	07:00	4.3	05:45-07:10	OUTBD+	06:35-07:10	OUTBD+	05:45	4.2	07:10	4.3
			06:50-07:45	INBD -	06:50-07:20	INBD -	06:50	4.3	07:45	4.1
	14:16	0.8	13:50-14:20	INBD -	14:05-14:20	INBD -	13:50	0.7	14:20	0.8
14:10-14:50			OUTBD+	14:10-14:30	OUTBD+	14:10	0.7	14:50	1.0	
20:39	4.5	19:50-20:50	OUTBD+	20:15-20:50	OUTBD+	19:50	4.5	20:50	4.5	
		20:30-21:45	INBD -	20:30-21:05	INBD -	20:30	4.5	21:45	4.4	
2015/04/22	02:21	2.9	01:30-02:30	INBD -	01:55-02:30	INBD -	01:30	2.9	02:30	2.9
			02:10-03:35	OUTBD+	02:10-02:45	OUTBD+	02:10	2.8	03:35	3.1
	07:37	4.1	04:50-07:50	OUTBD+	07:05-07:50	OUTBD+	04:50	3.5	07:50	4.1
			07:25-08:30	INBD -	07:25-08:00	INBD -	07:25	4.1	08:30	3.9
	14:59	0.9	14:25-15:05	INBD -	14:45-15:05	INBD -	14:25	0.8	15:05	0.9
14:55-15:40			OUTBD+	14:55-15:15	OUTBD+	14:55	0.9	15:40	1.2	
21:33	4.5	20:35-21:45	OUTBD+	21:05-21:45	OUTBD+	20:35	4.4	21:45	4.5	
		21:20-22:45	INBD -	21:20-22:05	INBD -	21:20	4.5	22:45	4.3	
2015/04/23	03:20	3.0	02:05-03:35	INBD -	02:50-03:35	INBD -	02:05	3.1	03:35	3.0
			03:05-08:30	OUTBD+	03:05-04:00	OUTBD+	03:05	3.0	08:30	3.8
	08:16	3.9	07:35-08:30	OUTBD+	07:35-08:30	OUTBD+	07:35	3.9	08:30	3.8
			08:00-09:25	INBD -	08:00-08:50	INBD -	08:00	3.9	09:25	3.6
	15:44	1.1	15:05-15:50	INBD -	15:25-15:50	INBD -	15:05	1.0	15:50	1.1
15:35-16:25			OUTBD+	15:35-16:00	OUTBD+	15:35	1.0	16:25	1.3	
22:29	4.5	21:25-22:45	OUTBD+	22:00-22:45	OUTBD+	21:25	4.3	22:45	4.5	
		22:15-23:45	INBD -	22:15-23:00	INBD -	22:15	4.5	23:45	4.3	
2015/04/24	04:35	3.0	02:50-05:00	INBD -	03:50-05:00	INBD -	02:50	3.2	05:00	3.1
			04:15-09:20	OUTBD+	04:15-05:45	OUTBD+	04:15	3.0	09:20	3.6
	08:59	3.6	08:00-09:20	OUTBD+	08:00-09:20	OUTBD+	08:00	3.6	09:20	3.6
			08:35-10:30	INBD -	08:35-09:40	INBD -	08:35	3.6	10:30	3.3
	16:29	1.3	15:40-16:40	INBD -	16:05-16:40	INBD -	15:40	1.3	16:40	1.3
16:20-17:20			OUTBD+	16:20-16:50	OUTBD+	16:20	1.3	17:20	1.6	
23:27	4.4	22:15-23:40	OUTBD+	22:55-23:40	OUTBD+	22:15	4.3	23:40	4.4	
		23:10-00:45	INBD -	23:10-00:00	INBD -	23:10	4.4	00:45	4.2	
2015/04/25	06:02	3.0	03:55-06:30	INBD -	05:10-06:30	INBD -	03:55	3.2	06:30	3.0
			05:35-10:20	OUTBD+	05:35-07:30	OUTBD+	05:35	2.9	10:20	3.3
	09:53	3.3	08:35-10:20	OUTBD+	08:35-10:20	OUTBD+	08:35	3.3	10:20	3.3
			09:25-12:00	INBD -	09:25-10:50	INBD -	09:25	3.3	12:00	3.0
	17:17	1.6	16:10-17:30	INBD -	16:50-17:30	INBD -	16:10	1.6	17:30	1.6
17:05-18:20			OUTBD+	17:05-17:45	OUTBD+	17:05	1.6	18:20	1.9	
00:23	4.4	23:05-00:35	OUTBD+	23:50-00:35	OUTBD+	23:05	4.2	00:35	4.3	
2015/04/26	07:16	2.8	00:10-01:40	INBD -	00:10-00:55	INBD -	00:10	4.4	01:40	4.1
			05:35-07:40	INBD -	06:30-07:40	INBD -	05:35	2.9	07:40	2.8
	11:08	3.2	06:55-11:50	OUTBD+	06:55-08:30	OUTBD+	06:55	2.8	11:50	3.1
			09:40-11:50	OUTBD+	09:40-11:50	OUTBD+	09:40	3.1	11:50	3.1
	18:09	1.8	10:30-13:40	INBD -	10:30-12:30	INBD -	10:30	3.1	13:40	2.8
16:40-18:25			INBD -	17:35-18:25	INBD -	16:40	1.9	18:25	1.9	
01:14	4.3	17:55-19:25	OUTBD+	17:55-18:40	OUTBD+	17:55	1.8	19:25	2.1	
		23:55-01:30	OUTBD+	00:40-01:30	OUTBD+	23:55	4.1	01:30	4.3	
2015/04/27	08:13	2.5	01:00-02:30	INBD -	01:00-01:45	INBD -	01:00	4.3	02:30	4.1
			06:55-08:35	INBD -	07:35-08:35	INBD -	06:55	2.6	08:35	2.6
	12:58	3.1	07:55-13:35	OUTBD+	07:55-09:05	OUTBD+	07:55	2.5	13:35	3.1
			11:15-13:35	OUTBD+	11:15-13:35	OUTBD+	11:15	3.0	13:35	3.1
19:07	2.1	12:05-15:05	INBD -	12:05-14:05	INBD -	12:05	3.1	15:05	2.8	
		17:05-19:25	INBD -	18:25-19:25	INBD -	17:05	2.3	19:25	2.1	
			18:50-20:35	OUTBD+	18:50-19:45	OUTBD+	18:50	2.1	20:35	2.4

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/04/28	01:59	4.2	00:40-02:15	OUTBD+	01:25-02:15	OUTBD+	00:40	4.1	02:15	4.2
			01:45-03:10	INBD -	01:45-02:30	INBD -	01:45	4.2	03:10	4.1
	08:58	2.3	08:00-09:15	INBD -	08:30-09:15	INBD -	08:00	2.3	09:15	2.3
			08:45-14:55	OUTBD+	08:45-09:35	OUTBD+	08:45	2.3	14:55	3.2
	14:32	3.2			13:10-14:55	OUTBD+	13:10	3.2	14:55	3.2
			14:00-16:25	INBD -	14:00-15:20	INBD -	14:00	3.2	16:25	2.9
20:09	2.2	17:40-20:25	INBD -	19:25-20:25	INBD -	17:40	2.6	20:25	2.3	
		19:50-21:40	OUTBD+	19:50-20:45	OUTBD+	19:50	2.2	21:40	2.6	
2015/04/29	02:40	4.2	01:20-02:55	OUTBD+	02:05-02:55	OUTBD+	01:20	4.0	02:55	4.2
			02:25-03:45	INBD -	02:25-03:10	INBD -	02:25	4.2	03:45	4.0
	09:38	2.0	08:50-09:50	INBD -	09:15-09:50	INBD -	08:50	2.1	09:50	2.1
			09:30-10:55	OUTBD+	09:30-10:05	OUTBD+	09:30	2.0	10:55	2.3
	15:36	3.4	12:55-15:55	OUTBD+	14:50-15:55	OUTBD+	12:55	3.0	15:55	3.4
			15:15-17:15	INBD -	15:15-16:15	INBD -	15:15	3.4	17:15	3.1
21:07	2.4	18:55-21:25	INBD -	20:30-21:25	INBD -	18:55	2.7	21:25	2.4	
		20:50-22:35	OUTBD+	20:50-21:40	OUTBD+	20:50	2.4	22:35	2.7	
2015/04/30	03:14	4.2	01:55-03:30	OUTBD+	02:40-03:30	OUTBD+	01:55	4.0	03:30	4.1
			03:00-04:15	INBD -	03:00-03:45	INBD -	03:00	4.2	04:15	4.0
	10:14	1.8	09:30-10:25	INBD -	09:55-10:25	INBD -	09:30	1.8	10:25	1.8
			10:05-11:10	OUTBD+	10:05-10:35	OUTBD+	10:05	1.8	11:10	2.0
	16:25	3.7	14:50-16:40	OUTBD+	15:50-16:40	OUTBD+	14:50	3.5	16:40	3.6
			16:10-17:50	INBD -	16:10-17:00	INBD -	16:10	3.7	17:50	3.4
21:58	2.5	20:30-22:10	INBD -	21:25-22:10	INBD -	20:30	2.6	22:10	2.5	
		21:45-23:20	OUTBD+	21:45-22:30	OUTBD+	21:45	2.5	23:20	2.8	

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS May 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/05/01	03:45	4.1	02:25-04:00	OUTBD+	03:15-04:00	OUTBD+	02:25	4.0	04:00	4.1
			03:30-04:45	INBD -	03:30-04:15	INBD -	03:30	4.2	04:45	4.0
	10:49	1.6	10:10-10:55	INBD -	10:30-10:55	INBD -	10:10	1.6	10:55	1.6
			10:40-11:35	OUTBD+	10:40-11:10	OUTBD+	10:40	1.6	11:35	1.8
	17:07	3.9	15:55-17:20	OUTBD+	16:35-17:20	OUTBD+	15:55	3.8	17:20	3.9
			16:55-18:20	INBD -	16:55-17:40	INBD -	16:55	3.9	18:20	3.6
22:42	2.6	21:35-22:55	INBD -	22:15-22:55	INBD -	21:35	2.6	22:55	2.6	
		22:30-23:55	OUTBD+	22:30-23:10	OUTBD+	22:30	2.6	23:55	2.9	
2015/05/02	04:14	4.1	02:45-04:25	OUTBD+	03:40-04:25	OUTBD+	02:45	3.9	04:25	4.1
			04:00-05:10	INBD -	04:00-04:40	INBD -	04:00	4.1	05:10	4.0
	11:24	1.4	10:50-11:30	INBD -	11:10-11:30	INBD -	10:50	1.3	11:30	1.4
			11:20-12:05	OUTBD+	11:20-11:40	OUTBD+	11:20	1.4	12:05	1.6
	17:45	4.1	16:45-18:00	OUTBD+	17:15-18:00	OUTBD+	16:45	4.0	18:00	4.0
			17:35-18:55	INBD -	17:35-18:15	INBD -	17:35	4.1	18:55	3.8
23:21	2.7	22:25-23:30	INBD -	22:55-23:30	INBD -	22:25	2.7	23:30	2.7	
		23:10-00:30	OUTBD+	23:10-23:45	OUTBD+	23:10	2.7	00:30	2.9	
2015/05/03	04:42	4.1	02:30-04:55	OUTBD+	04:10-04:55	OUTBD+	02:30	3.7	04:55	4.1
			04:30-05:35	INBD -	04:30-05:05	INBD -	04:30	4.1	05:35	4.0
	11:59	1.2	11:25-12:05	INBD -	11:45-12:05	INBD -	11:25	1.1	12:05	1.2
			11:55-12:35	OUTBD+	11:55-12:15	OUTBD+	11:55	1.2	12:35	1.4
	18:23	4.2	17:25-18:35	OUTBD+	17:55-18:35	OUTBD+	17:25	4.1	18:35	4.2
			18:10-19:35	INBD -	18:10-18:50	INBD -	18:10	4.2	19:35	4.0
23:59	2.8	23:05-00:10	INBD -	23:35-00:10	INBD -	23:05	2.8	00:10	2.8	
		23:50-01:00	OUTBD+	23:50-00:25	OUTBD+	23:50	2.8	01:00	3.0	
2015/05/04	05:11	4.1	02:25-05:25	OUTBD+	04:35-05:25	OUTBD+	02:25	3.5	05:25	4.1
			05:00-06:00	INBD -	05:00-05:35	INBD -	05:00	4.1	06:00	4.0
	12:35	1.0	12:05-12:40	INBD -	12:20-12:40	INBD -	12:05	1.0	12:40	1.1
			12:30-13:10	OUTBD+	12:30-12:50	OUTBD+	12:30	1.0	13:10	1.3
	19:02	4.3	18:10-19:15	OUTBD+	18:35-19:15	OUTBD+	18:10	4.2	19:15	4.3
			18:50-20:15	INBD -	18:50-19:30	INBD -	18:50	4.3	20:15	4.1
00:37	2.9	23:45-00:45	INBD -	00:15-00:45	INBD -	23:45	2.9	00:45	2.9	
2015/05/05	05:41	4.1	00:25-01:40	OUTBD+	00:25-01:00	OUTBD+	00:25	2.9	01:40	3.1
			02:50-05:55	OUTBD+	04:55-05:55	OUTBD+	02:50	3.5	05:55	4.1
			05:25-06:30	INBD -	05:25-06:05	INBD -	05:25	4.1	06:30	3.9
	13:12	1.0	12:40-13:15	INBD -	13:00-13:15	INBD -	12:40	0.8	13:15	1.0
			13:05-13:45	OUTBD+	13:05-13:25	OUTBD+	13:05	0.9	13:45	1.2
	19:42	4.4	18:50-19:55	OUTBD+	19:15-19:55	OUTBD+	18:50	4.3	19:55	4.4
19:30-20:55			INBD -	19:30-20:10	INBD -	19:30	4.4	20:55	4.2	
2015/05/06	01:16	3.0	00:20-01:25	INBD -	00:50-01:25	INBD -	00:20	3.0	01:25	3.0
			01:05-02:25	OUTBD+	01:05-01:40	OUTBD+	01:05	3.0	02:25	3.2
	06:12	4.1	03:15-06:25	OUTBD+	04:45-06:25	OUTBD+	03:15	3.5	06:25	4.0
			05:50-07:05	INBD -	05:50-06:40	INBD -	05:50	4.1	07:05	3.9
	13:49	0.9	13:15-13:55	INBD -	13:35-13:55	INBD -	13:15	0.8	13:55	0.9
			13:45-14:20	OUTBD+	13:45-14:05	OUTBD+	13:45	0.9	14:20	1.1
20:25	4.5	19:35-20:40	OUTBD+	20:00-20:40	OUTBD+	19:35	4.4	20:40	4.4	
		20:15-21:45	INBD -	20:15-20:55	INBD -	20:15	4.5	21:45	4.2	

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 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/05/07	01:59	3.1	01:00-02:10	INBD -	01:35-02:10	INBD -	01:00	3.1	02:10	3.1
			01:50-07:05	OUTBD+	01:50-02:30	OUTBD+	01:50	3.1	07:05	4.0
	06:44	4.0			05:05-07:05	OUTBD+	05:05	3.8	07:05	4.0
			06:10-07:45	INBD -	06:10-07:20	INBD -	06:10	4.0	07:45	3.8
	14:29	0.9	13:55-14:35	INBD -	14:15-14:35	INBD -	13:55	0.8	14:35	0.9
			14:25-15:05	OUTBD+	14:25-14:45	OUTBD+	14:25	0.9	15:05	1.1
21:11	4.5	20:20-21:25	OUTBD+	20:45-21:25	OUTBD+	20:20	4.4	21:25	4.5	
		21:00-22:30	INBD -	21:00-21:40	INBD -	21:00	4.5	22:30	4.2	
2015/05/08	02:51	3.1	01:40-03:05	INBD -	02:20-03:05	INBD -	01:40	3.2	03:05	3.1
			02:35-07:45	OUTBD+	02:35-03:25	OUTBD+	02:35	3.1	07:45	3.8
	07:23	3.9			05:40-07:45	OUTBD+	05:40	3.7	07:45	3.8
			06:40-08:30	INBD -	06:40-08:00	INBD -	06:40	3.8	08:30	3.7
	15:11	1.0	14:35-15:20	INBD -	14:55-15:20	INBD -	14:35	0.9	15:20	1.0
			15:05-15:50	OUTBD+	15:05-15:30	OUTBD+	15:05	0.9	15:50	1.2
22:01	4.5	21:05-22:15	OUTBD+	21:35-22:15	OUTBD+	21:05	4.4	22:15	4.5	
		21:50-23:25	INBD -	21:50-22:30	INBD -	21:50	4.5	23:25	4.2	
2015/05/09	03:54	3.1	02:25-04:10	INBD -	03:15-04:10	INBD -	02:25	3.2	04:10	3.1
			03:35-08:35	OUTBD+	03:35-04:40	OUTBD+	03:35	3.1	08:35	3.7
	08:13	3.7			06:25-08:35	OUTBD+	06:25	3.5	08:35	3.7
			07:30-09:25	INBD -	07:30-08:55	INBD -	07:30	3.7	09:25	3.5
	15:58	1.1	15:15-16:05	INBD -	15:40-16:05	INBD -	15:15	1.0	16:05	1.1
			15:50-16:40	OUTBD+	15:50-16:15	OUTBD+	15:50	1.0	16:40	1.3
22:53	4.5	21:55-23:05	OUTBD+	22:25-23:05	OUTBD+	21:55	4.4	23:05	4.5	
		22:40-00:10	INBD -	22:40-23:25	INBD -	22:40	4.5	00:10	4.3	
2015/05/10	05:06	3.0	03:30-05:25	INBD -	04:25-05:25	INBD -	03:30	3.1	05:25	3.0
			04:50-09:40	OUTBD+	04:50-06:00	OUTBD+	04:50	3.0	09:40	3.5
	09:19	3.5			07:35-09:40	OUTBD+	07:35	3.4	09:40	3.5
			08:50-10:35	INBD -	08:50-10:00	INBD -	08:50	3.5	10:35	3.3
	16:50	1.3	16:00-17:00	INBD -	16:30-17:00	INBD -	16:00	1.2	17:00	1.3
			16:40-17:35	OUTBD+	16:40-17:10	OUTBD+	16:40	1.2	17:35	1.5
23:46	4.5	22:50-00:00	OUTBD+	23:20-00:00	OUTBD+	22:50	4.4	00:00	4.5	
		23:35-01:00	INBD -	23:35-00:15	INBD -	23:35	4.5	01:00	4.3	
2015/05/11	06:19	2.8	05:00-06:35	INBD -	05:45-06:35	INBD -	05:00	2.9	06:35	2.8
			06:05-10:55	OUTBD+	06:05-07:05	OUTBD+	06:05	2.8	10:55	3.3
	10:37	3.3			09:35-10:55	OUTBD+	09:35	3.3	10:55	3.3
			10:15-12:00	INBD -	10:15-11:15	INBD -	10:15	3.3	12:00	3.1
	17:49	1.5	16:55-18:00	INBD -	17:25-18:00	INBD -	16:55	1.5	18:00	1.6
			17:40-18:35	OUTBD+	17:40-18:10	OUTBD+	17:40	1.5	18:35	1.8
00:38	4.5	23:40-00:50	OUTBD+	00:10-00:50	OUTBD+	23:40	4.4	00:50	4.5	
2015/05/12	07:24	2.4	00:25-01:40	INBD -	00:25-01:05	INBD -	00:25	4.5	01:40	4.3
			06:25-07:35	INBD -	06:55-07:35	INBD -	06:25	2.5	07:35	2.5
	12:06	3.3	07:10-12:25	OUTBD+	07:10-07:55	OUTBD+	07:10	2.4	12:25	3.3
			11:20-12:25	OUTBD+	11:20-12:25	OUTBD+	11:20	3.3	12:25	3.3
	18:54	1.8	11:45-13:40	INBD -	11:45-12:50	INBD -	11:45	3.3	13:40	3.1
			17:55-19:05	INBD -	18:30-19:05	INBD -	17:55	1.7	19:05	1.8
18:45-19:45	OUTBD+	18:45-19:15	OUTBD+	18:45	1.8	19:45	2.0			
2015/05/13	01:26	4.5	00:30-01:35	OUTBD+	01:00-01:35	OUTBD+	00:30	4.5	01:35	4.5
			01:15-02:20	INBD -	01:15-01:50	INBD -	01:15	4.5	02:20	4.3
	08:21	2.1	07:35-08:30	INBD -	08:00-08:30	INBD -	07:35	2.1	08:30	2.1
			08:10-09:25	OUTBD+	08:10-08:45	OUTBD+	08:10	2.0	09:25	2.3
	13:42	3.4	11:50-14:00	OUTBD+	13:00-14:00	OUTBD+	11:50	3.1	14:00	3.4
			13:20-15:10	INBD -	13:20-14:25	INBD -	13:20	3.4	15:10	3.2
20:01	2.1	19:00-20:10	INBD -	19:35-20:10	INBD -	19:00	2.0	20:10	2.1	
		19:50-20:55	OUTBD+	19:50-20:25	OUTBD+	19:50	2.0	20:55	2.3	

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/05/14	02:12	4.5	01:15-02:20	OUTBD+	01:50-02:20	OUTBD+	01:15	4.5	02:20	4.5
			02:00-03:00	INBD -	02:00-02:35	INBD -	02:00	4.5	03:00	4.3
	09:14	1.6	08:40-09:20	INBD -	08:55-09:20	INBD -	08:40	1.6	09:20	1.7
			09:05-10:00	OUTBD+	09:05-09:35	OUTBD+	09:05	1.6	10:00	1.8
	15:09	3.7	13:45-15:25	OUTBD+	14:35-15:25	OUTBD+	13:45	3.5	15:25	3.7
			14:55-16:25	INBD -	14:55-15:40	INBD -	14:55	3.7	16:25	3.4
21:05	2.3	20:10-21:15	INBD -	20:45-21:15	INBD -	20:10	2.2	21:15	2.3	
		20:55-22:00	OUTBD+	20:55-21:30	OUTBD+	20:55	2.3	22:00	2.6	
2015/05/15	02:56	4.5	01:55-03:05	OUTBD+	02:30-03:05	OUTBD+	01:55	4.4	03:05	4.5
			02:45-03:40	INBD -	02:45-03:20	INBD -	02:45	4.5	03:40	4.3
	10:05	1.2	09:35-10:10	INBD -	09:50-10:10	INBD -	09:35	1.2	10:10	1.3
			10:00-10:45	OUTBD+	10:00-10:20	OUTBD+	10:00	1.2	10:45	1.5
	16:18	4.0	15:15-16:30	OUTBD+	15:50-16:30	OUTBD+	15:15	3.9	16:30	3.9
			16:05-17:30	INBD -	16:05-16:45	INBD -	16:05	4.0	17:30	3.7
22:04	2.5	21:15-22:10	INBD -	21:45-22:10	INBD -	21:15	2.5	22:10	2.5	
		21:55-22:55	OUTBD+	21:55-22:25	OUTBD+	21:55	2.5	22:55	2.7	
2015/05/16	03:38	4.5	02:30-03:50	OUTBD+	03:15-03:50	OUTBD+	02:30	4.4	03:50	4.5
			03:30-04:25	INBD -	03:30-04:00	INBD -	03:30	4.5	04:25	4.3
	10:54	0.9	10:25-11:00	INBD -	10:40-11:00	INBD -	10:25	0.9	11:00	1.0
			10:50-11:30	OUTBD+	10:50-11:10	OUTBD+	10:50	0.9	11:30	1.2
	17:16	4.2	16:25-17:30	OUTBD+	16:55-17:30	OUTBD+	16:25	4.2	17:30	4.2
			17:05-18:25	INBD -	17:05-17:45	INBD -	17:05	4.2	18:25	4.0
22:56	2.7	22:10-23:05	INBD -	22:35-23:05	INBD -	22:10	2.6	23:05	2.7	
		22:50-23:45	OUTBD+	22:50-23:15	OUTBD+	22:50	2.6	23:45	2.9	
2015/05/17	04:20	4.5	02:45-04:30	OUTBD+	03:55-04:30	OUTBD+	02:45	4.2	04:30	4.4
			04:10-05:05	INBD -	04:10-04:40	INBD -	04:10	4.5	05:05	4.3
	11:41	0.7	11:15-11:45	INBD -	11:30-11:45	INBD -	11:15	0.6	11:45	0.7
			11:35-12:15	OUTBD+	11:35-11:55	OUTBD+	11:35	0.7	12:15	0.9
	18:07	4.4	17:20-18:20	OUTBD+	17:45-18:20	OUTBD+	17:20	4.4	18:20	4.4
			17:55-19:15	INBD -	17:55-18:35	INBD -	17:55	4.4	19:15	4.2
23:44	2.8	23:00-23:55	INBD -	23:25-23:55	INBD -	23:00	2.8	23:55	2.8	
		23:35-00:35	OUTBD+	23:35-00:05	OUTBD+	23:35	2.8	00:35	3.0	
2015/05/18	05:02	4.4	02:40-05:10	OUTBD+	04:30-05:10	OUTBD+	02:40	3.9	05:10	4.4
			04:50-05:50	INBD -	04:50-05:25	INBD -	04:50	4.4	05:50	4.2
	12:27	0.6	12:00-12:30	INBD -	12:15-12:30	INBD -	12:00	0.5	12:30	0.6
			12:20-13:00	OUTBD+	12:20-12:40	OUTBD+	12:20	0.6	13:00	0.8
	18:54	4.6	18:10-19:05	OUTBD+	18:30-19:05	OUTBD+	18:10	4.5	19:05	4.5
			18:45-20:00	INBD -	18:45-19:20	INBD -	18:45	4.6	20:00	4.3
00:31	2.9	23:45-00:40	INBD -	00:10-00:40	INBD -	23:45	2.9	00:40	2.9	
2015/05/19			00:25-01:25	OUTBD+	00:25-00:55	OUTBD+	00:25	2.9	01:25	3.1
	05:42	4.3	03:00-05:55	OUTBD+	05:05-05:55	OUTBD+	03:00	3.7	05:55	4.3
			05:30-06:30	INBD -	05:30-06:05	INBD -	05:30	4.3	06:30	4.1
	13:10	0.6	12:45-13:15	INBD -	13:00-13:15	INBD -	12:45	0.5	13:15	0.6
			13:05-13:45	OUTBD+	13:05-13:25	OUTBD+	13:05	0.6	13:45	0.8
	19:40	4.6	18:50-19:50	OUTBD+	19:15-19:50	OUTBD+	18:50	4.5	19:50	4.6
		19:30-20:45	INBD -	19:30-20:05	INBD -	19:30	4.6	20:45	4.4	
2015/05/20	01:20	3.0	00:30-01:30	INBD -	00:55-01:30	INBD -	00:30	3.0	01:30	3.0
			01:10-02:35	OUTBD+	01:10-01:45	OUTBD+	01:10	3.0	02:35	3.3
	06:21	4.1	03:10-06:35	OUTBD+	05:40-06:35	OUTBD+	03:10	3.5	06:35	4.1
			06:05-07:15	INBD -	06:05-06:50	INBD -	06:05	4.2	07:15	3.9
	13:52	0.7	13:25-14:00	INBD -	13:40-14:00	INBD -	13:25	0.6	14:00	0.7
			13:45-14:30	OUTBD+	13:45-14:05	OUTBD+	13:45	0.6	14:30	1.0
20:24	4.6	19:35-20:35	OUTBD+	20:00-20:35	OUTBD+	19:35	4.5	20:35	4.6	
		20:15-21:30	INBD -	20:15-20:50	INBD -	20:15	4.6	21:30	4.5	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/05/21	02:12	3.0	01:10-02:25	INBD -	01:45-02:25	INBD -	01:10	3.1	02:25	3.0
			02:00-07:15	OUTBD+	02:00-02:45	OUTBD+	02:00	3.0	07:15	3.9
	07:00	3.9			06:10-07:15	OUTBD+	06:10	3.9	07:15	3.9
			06:40-08:00	INBD -	06:40-07:30	INBD -	06:40	4.0	08:00	3.7
	14:32	0.8	14:00-14:40	INBD -	14:15-14:40	INBD -	14:00	0.7	14:40	0.9
14:25-15:10			OUTBD+	14:25-14:50	OUTBD+	14:25	0.8	15:10	1.1	
21:10	4.6	20:15-21:20	OUTBD+	20:45-21:20	OUTBD+	20:15	4.5	21:20	4.6	
		21:00-22:15	INBD -	21:00-21:40	INBD -	21:00	4.6	22:15	4.4	
2015/05/22	03:11	3.0	01:55-03:30	INBD -	02:40-03:30	INBD -	01:55	3.1	03:30	3.0
			02:55-08:00	OUTBD+	02:55-04:00	OUTBD+	02:55	3.0	08:00	3.7
	07:41	3.7			06:40-08:00	OUTBD+	06:40	3.7	08:00	3.7
			07:20-08:55	INBD -	07:20-08:15	INBD -	07:20	3.7	08:55	3.5
	15:11	1.1	14:30-15:20	INBD -	14:55-15:20	INBD -	14:30	1.0	15:20	1.1
15:05-15:55			OUTBD+	15:05-15:30	OUTBD+	15:05	1.0	15:55	1.3	
21:56	4.6	20:55-22:10	OUTBD+	21:30-22:10	OUTBD+	20:55	4.4	22:10	4.6	
		21:45-23:05	INBD -	21:45-22:25	INBD -	21:45	4.6	23:05	4.4	
2015/05/23	04:21	3.0	02:50-04:45	INBD -	03:40-04:45	INBD -	02:50	3.1	04:45	3.0
			04:00-08:50	OUTBD+	04:00-05:35	OUTBD+	04:00	2.9	08:50	3.4
	08:27	3.5			07:20-08:50	OUTBD+	07:20	3.4	08:50	3.4
			08:05-10:00	INBD -	08:05-09:10	INBD -	08:05	3.5	10:00	3.2
	15:50	1.3	15:00-16:00	INBD -	15:30-16:00	INBD -	15:00	1.3	16:00	1.4
15:40-16:40			OUTBD+	15:40-16:15	OUTBD+	15:40	1.3	16:40	1.6	
22:42	4.5	21:35-22:55	OUTBD+	22:10-22:55	OUTBD+	21:35	4.4	22:55	4.5	
		22:30-23:55	INBD -	22:30-23:15	INBD -	22:30	4.5	23:55	4.3	
2015/05/24	05:34	2.8	03:55-06:00	INBD -	04:50-06:00	INBD -	03:55	2.9	06:00	2.8
			05:10-09:50	OUTBD+	05:10-06:50	OUTBD+	05:10	2.8	09:50	3.2
	09:25	3.2			08:15-09:50	OUTBD+	08:15	3.2	09:50	3.2
			09:00-11:35	INBD -	09:00-10:20	INBD -	09:00	3.2	11:35	2.8
	16:29	1.6	15:20-16:40	INBD -	16:00-16:40	INBD -	15:20	1.6	16:40	1.7
16:15-17:35			OUTBD+	16:15-17:00	OUTBD+	16:15	1.6	17:35	1.9	
23:27	4.4	22:10-23:40	OUTBD+	22:55-23:40	OUTBD+	22:10	4.2	23:40	4.4	
		23:10-00:45	INBD -	23:10-00:00	INBD -	23:10	4.4	00:45	4.2	
2015/05/25	06:38	2.6	05:10-07:00	INBD -	05:55-07:00	INBD -	05:10	2.7	07:00	2.6
			06:20-11:20	OUTBD+	06:20-07:40	OUTBD+	06:20	2.6	11:20	3.0
	10:40	3.1			09:25-11:20	OUTBD+	09:25	3.0	11:20	3.0
			10:10-13:25	INBD -	10:10-12:05	INBD -	10:10	3.0	13:25	2.6
	17:12	2.0	15:30-17:30	INBD -	16:30-17:30	INBD -	15:30	2.1	17:30	2.0
16:55-18:35			OUTBD+	16:55-17:50	OUTBD+	16:55	2.0	18:35	2.3	
00:09	4.3	22:45-00:25	OUTBD+	23:30-00:25	OUTBD+	22:45	4.2	00:25	4.3	
		23:50-01:30	INBD -	23:50-00:45	INBD -	23:50	4.3	01:30	4.1	
2015/05/26	07:32	2.3	06:15-07:50	INBD -	06:55-07:50	INBD -	06:15	2.4	07:50	2.4
			07:15-13:15	OUTBD+	07:15-08:20	OUTBD+	07:15	2.3	13:15	3.0
	12:32	3.0			10:55-13:15	OUTBD+	10:55	2.9	13:15	3.0
			11:40-18:25	INBD -	11:40-13:50	INBD -	11:40	3.0	18:25	2.3
	18:02	2.3			17:05-18:25	INBD -	17:05	2.3	18:25	2.3
17:35-19:55			OUTBD+	17:35-18:50	OUTBD+	17:35	2.3	19:55	2.7	
00:48	4.3	23:15-01:05	OUTBD+	00:10-01:05	OUTBD+	23:15	4.0	01:05	4.2	
2015/05/27			00:30-02:10	INBD -	00:30-01:25	INBD -	00:30	4.3	02:10	4.0
	08:18	2.1	07:15-08:35	INBD -	07:50-08:35	INBD -	07:15	2.1	08:35	2.1
			08:05-14:40	OUTBD+	08:05-08:55	OUTBD+	08:05	2.1	14:40	3.1
	14:14	3.2			12:45-14:40	OUTBD+	12:45	3.1	14:40	3.1
			13:40-19:30	INBD -	13:40-15:10	INBD -	13:40	3.2	19:30	2.6
19:06	2.6			17:55-19:30	INBD -	17:55	2.6	19:30	2.6	
		18:35-21:30	OUTBD+	18:35-20:00	OUTBD+	18:35	2.6	21:30	3.1	
01:25	4.2	23:40-01:45	OUTBD+	00:45-01:45	OUTBD+	23:40	3.9	01:45	4.2	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER TIMES HEIGHTS	2 KNOT WINDOW PERIOD	WINDOW TRANSIT	1 KNOT CURRENT PERIOD	WINDOW TRANSIT	START HGHTS	WINDOW TIMES	END HGHTS	WINDOW TIMES	END HGHTS
2015/05/28		01:05-02:45	INBD -	01:05-02:05	INBD -	01:05	4.2	02:45	4.0	
	08:59	1.8	08:05-09:10	INBD -	08:35-09:10	INBD -	08:05	1.8	09:10	1.8
			08:50-10:15	OUTBD+	08:50-09:30	OUTBD+	08:50	1.8	10:15	2.1
	15:20	3.4	12:45-15:40	OUTBD+	14:30-15:40	OUTBD+	12:45	3.0	15:40	3.4
			15:00-20:40	INBD -	15:00-16:05	INBD -	15:00	3.4	20:40	2.8
	20:16	2.8			19:10-20:40	INBD -	19:10	2.8	20:40	2.8
			19:50-22:55	OUTBD+	19:50-21:05	OUTBD+	19:50	2.8	22:55	3.4
	01:59	4.2	23:55-02:15	OUTBD+	01:20-02:15	OUTBD+	23:55	3.8	02:15	4.2
2015/05/29			01:40-03:15	INBD -	01:40-02:35	INBD -	01:40	4.2	03:15	4.0
	09:38	1.6	08:55-09:45	INBD -	09:15-09:45	INBD -	08:55	1.5	09:45	1.6
			09:30-10:35	OUTBD+	09:30-10:00	OUTBD+	09:30	1.5	10:35	1.8
	16:10	3.7	14:30-16:30	OUTBD+	15:30-16:30	OUTBD+	14:30	3.4	16:30	3.6
			15:50-21:40	INBD -	15:50-16:50	INBD -	15:50	3.7	21:40	3.0
	21:18	2.9			20:30-21:40	INBD -	20:30	2.9	21:40	3.0
			21:00-02:50	OUTBD+	21:00-22:00	OUTBD+	21:00	2.9	02:50	4.1
2015/05/30	02:34	4.1			01:55-02:50	OUTBD+	01:55	4.1	02:50	4.1
			02:15-03:45	INBD -	02:15-03:10	INBD -	02:15	4.1	03:45	3.9
	10:16	1.3	09:35-10:25	INBD -	09:55-10:25	INBD -	09:35	1.3	10:25	1.4
			10:10-11:05	OUTBD+	10:10-10:35	OUTBD+	10:10	1.3	11:05	1.6
	16:53	3.9	15:35-17:10	OUTBD+	16:20-17:10	OUTBD+	15:35	3.8	17:10	3.9
			16:40-18:30	INBD -	16:40-17:30	INBD -	16:40	3.9	18:30	3.6
	22:10	3.0	20:25-22:25	INBD -	21:35-22:25	INBD -	20:25	3.1	22:25	3.0
		21:55-03:25	OUTBD+	21:55-22:45	OUTBD+	21:55	3.0	03:25	4.1	
2015/05/31	03:09	4.1			02:25-03:25	OUTBD+	02:25	4.1	03:25	4.1
			02:50-04:15	INBD -	02:50-03:40	INBD -	02:50	4.1	04:15	4.0
	10:53	1.1	10:20-11:00	INBD -	10:35-11:00	INBD -	10:20	1.1	11:00	1.1
			10:45-11:35	OUTBD+	10:45-11:10	OUTBD+	10:45	1.1	11:35	1.3
	17:33	4.1	16:30-17:45	OUTBD+	17:05-17:45	OUTBD+	16:30	4.0	17:45	4.1
			17:20-18:55	INBD -	17:20-18:05	INBD -	17:20	4.1	18:55	3.9
	22:55	3.1	21:40-23:10	INBD -	22:25-23:10	INBD -	21:40	3.1	23:10	3.1
		22:40-04:00	OUTBD+	22:40-23:25	OUTBD+	22:40	3.1	04:00	4.1	

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS June 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/06/01	03:44	4.2			02:55-04:00	OUTBD+	02:55	4.1	04:00	4.1
			03:25-04:45	INBD -	03:25-04:15	INBD -	03:25	4.2	04:45	4.0
	11:32	0.9	11:00-11:40	INBD -	11:15-11:40	INBD -	11:00	0.9	11:40	1.0
			11:25-12:10	OUTBD+	11:25-11:45	OUTBD+	11:25	0.9	12:10	1.1
	18:12	4.3	17:15-18:25	OUTBD+	17:45-18:25	OUTBD+	17:15	4.2	18:25	4.3
		18:00-19:25	INBD -	18:00-18:40	INBD -	18:00	4.3	19:25	4.1	
		22:35-23:50	INBD -	23:10-23:50	INBD -	22:35	3.2	23:50	3.2	
		23:25-04:35	OUTBD+	23:25-00:05	OUTBD+	23:25	3.1	04:35	4.2	
2015/06/02	04:20	4.2			03:20-04:35	OUTBD+	03:20	4.1	04:35	4.2
			04:00-05:20	INBD -	04:00-04:50	INBD -	04:00	4.2	05:20	4.0
	12:11	0.8	11:40-12:15	INBD -	11:55-12:15	INBD -	11:40	0.7	12:15	0.8
			12:05-12:45	OUTBD+	12:05-12:25	OUTBD+	12:05	0.7	12:45	1.0
	18:52	4.4	18:00-19:05	OUTBD+	18:25-19:05	OUTBD+	18:00	4.3	19:05	4.4
		18:40-20:05	INBD -	18:40-19:20	INBD -	18:40	4.4	20:05	4.2	
		23:20-00:30	INBD -	23:55-00:30	INBD -	23:20	3.2	00:30	3.2	
2015/06/03			00:10-05:15	OUTBD+	00:10-00:45	OUTBD+	00:10	3.2	05:15	4.1
	04:58	4.2			03:40-05:15	OUTBD+	03:40	4.0	05:15	4.1
			04:30-06:00	INBD -	04:30-05:30	INBD -	04:30	4.2	06:00	4.0
	12:51	0.7	12:20-12:55	INBD -	12:40-12:55	INBD -	12:20	0.6	12:55	0.7
			12:45-13:25	OUTBD+	12:45-13:05	OUTBD+	12:45	0.6	13:25	0.9
		18:45-19:45	OUTBD+	19:10-19:45	OUTBD+	18:45	4.4	19:45	4.5	
		19:20-20:45	INBD -	19:20-20:00	INBD -	19:20	4.5	20:45	4.3	
2015/06/04	01:02	3.2	00:05-01:15	INBD -	00:35-01:15	INBD -	00:05	3.2	01:15	3.2
			00:50-05:55	OUTBD+	00:50-01:30	OUTBD+	00:50	3.2	05:55	4.1
	05:38	4.1			04:10-05:55	OUTBD+	04:10	4.0	05:55	4.1
			05:10-06:40	INBD -	05:10-06:15	INBD -	05:10	4.1	06:40	3.9
	13:31	0.7	13:00-13:35	INBD -	13:20-13:35	INBD -	13:00	0.5	13:35	0.7
		13:25-14:05	OUTBD+	13:25-13:45	OUTBD+	13:25	0.6	14:05	0.9	
		19:25-20:25	OUTBD+	19:50-20:25	OUTBD+	19:25	4.5	20:25	4.6	
		20:05-21:25	INBD -	20:05-20:40	INBD -	20:05	4.6	21:25	4.4	
2015/06/05	01:51	3.2	00:50-02:00	INBD -	01:25-02:00	INBD -	00:50	3.2	02:00	3.2
			01:40-06:45	OUTBD+	01:40-02:20	OUTBD+	01:40	3.1	06:45	4.0
	06:24	4.0			04:50-06:45	OUTBD+	04:50	3.9	06:45	4.0
			05:50-07:25	INBD -	05:50-07:00	INBD -	05:50	4.0	07:25	3.8
	14:13	0.7	13:40-14:20	INBD -	14:00-14:20	INBD -	13:40	0.6	14:20	0.7
		14:05-14:45	OUTBD+	14:05-14:25	OUTBD+	14:05	0.7	14:45	0.9	
		20:10-21:05	OUTBD+	20:35-21:05	OUTBD+	20:10	4.6	21:05	4.6	
		20:45-22:05	INBD -	20:45-21:20	INBD -	20:45	4.6	22:05	4.4	
2015/06/06	02:45	3.1	01:40-03:00	INBD -	02:20-03:00	INBD -	01:40	3.1	03:00	3.1
			02:35-07:35	OUTBD+	02:35-03:15	OUTBD+	02:35	3.1	07:35	3.8
	07:16	3.9			05:40-07:35	OUTBD+	05:40	3.7	07:35	3.8
			06:45-08:20	INBD -	06:45-07:50	INBD -	06:45	3.9	08:20	3.7
	14:56	0.9	14:20-15:00	INBD -	14:40-15:00	INBD -	14:20	0.7	15:00	0.9
		14:50-15:30	OUTBD+	14:50-15:10	OUTBD+	14:50	0.8	15:30	1.1	
		20:55-21:50	OUTBD+	21:20-21:50	OUTBD+	20:55	4.6	21:50	4.6	
		21:30-22:45	INBD -	21:30-22:05	INBD -	21:30	4.6	22:45	4.4	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
 BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/06/07	03:47	2.9	02:40-04:00	INBD -	03:20-04:00	INBD -	02:40	3.0	04:00	3.0
			03:35-08:35	OUTBD+	03:35-04:20	OUTBD+	03:35	2.9	08:35	3.6
	08:16	3.7			06:55-08:35	OUTBD+	06:55	3.6	08:35	3.6
			07:55-09:20	INBD -	07:55-08:50	INBD -	07:55	3.7	09:20	3.5
	15:41	1.1	15:05-15:50	INBD -	15:25-15:50	INBD -	15:05	1.0	15:50	1.1
			15:35-16:20	OUTBD+	15:35-16:00	OUTBD+	15:35	1.0	16:20	1.3
22:25	4.7	21:35-22:35	OUTBD+	22:05-22:35	OUTBD+	21:35	4.6	22:35	4.6	
		22:15-23:25	INBD -	22:15-22:50	INBD -	22:15	4.7	23:25	4.5	
2015/06/08	04:53	2.7	03:50-05:05	INBD -	04:25-05:05	INBD -	03:50	2.8	05:05	2.7
			04:40-09:40	OUTBD+	04:40-05:30	OUTBD+	04:40	2.7	09:40	3.5
	09:25	3.5			08:30-09:40	OUTBD+	08:30	3.4	09:40	3.5
			09:05-10:30	INBD -	09:05-10:00	INBD -	09:05	3.5	10:30	3.3
	16:30	1.4	15:45-16:40	INBD -	16:10-16:40	INBD -	15:45	1.3	16:40	1.4
			16:20-17:10	OUTBD+	16:20-16:50	OUTBD+	16:20	1.3	17:10	1.6
23:10	4.6	22:20-23:20	OUTBD+	22:50-23:20	OUTBD+	22:20	4.6	23:20	4.6	
		23:00-00:05	INBD -	23:00-23:35	INBD -	23:00	4.7	00:05	4.5	
2015/06/09	05:58	2.4	05:05-06:10	INBD -	05:30-06:10	INBD -	05:05	2.4	06:10	2.4
			05:45-11:00	OUTBD+	05:45-06:30	OUTBD+	05:45	2.4	11:00	3.3
	10:43	3.3			10:00-11:00	OUTBD+	10:00	3.3	11:00	3.3
			10:25-12:05	INBD -	10:25-11:20	INBD -	10:25	3.3	12:05	3.1
	17:25	1.7	16:30-17:35	INBD -	17:00-17:35	INBD -	16:30	1.7	17:35	1.8
			17:15-18:15	OUTBD+	17:15-17:45	OUTBD+	17:15	1.7	18:15	2.0
23:55	4.6	23:00-00:05	OUTBD+	23:30-00:05	OUTBD+	23:00	4.6	00:05	4.6	
		23:45-00:50	INBD -	23:45-00:20	INBD -	23:45	4.6	00:50	4.4	
2015/06/10	06:58	2.0	06:10-07:10	INBD -	06:35-07:10	INBD -	06:10	2.1	07:10	2.1
			06:50-08:15	OUTBD+	06:50-07:25	OUTBD+	06:50	2.0	08:15	2.3
	12:13	3.3	10:20-12:30	OUTBD+	11:30-12:30	OUTBD+	10:20	3.0	12:30	3.3
			11:55-13:50	INBD -	11:55-12:55	INBD -	11:55	3.3	13:50	3.1
	18:27	2.1	17:15-18:40	INBD -	18:00-18:40	INBD -	17:15	2.1	18:40	2.2
			18:15-19:25	OUTBD+	18:15-18:50	OUTBD+	18:15	2.1	19:25	2.4
00:40	4.6	23:40-00:50	OUTBD+	00:15-00:50	OUTBD+	23:40	4.5	00:50	4.6	
2015/06/11			00:30-01:35	INBD -	00:30-01:05	INBD -	00:30	4.6	01:35	4.4
	07:55	1.6	07:15-08:05	INBD -	07:35-08:05	INBD -	07:15	1.6	08:05	1.7
			07:45-08:50	OUTBD+	07:45-08:15	OUTBD+	07:45	1.6	08:50	1.9
	13:50	3.5	12:15-14:10	OUTBD+	13:10-14:10	OUTBD+	12:15	3.3	14:10	3.5
			13:30-15:30	INBD -	13:30-14:30	INBD -	13:30	3.5	15:30	3.2
	19:35	2.5	18:15-19:45	INBD -	19:05-19:45	INBD -	18:15	2.5	19:45	2.5
19:20-20:40			OUTBD+	19:20-20:05	OUTBD+	19:20	2.5	20:40	2.8	
2015/06/12	01:24	4.5	00:10-01:35	OUTBD+	00:55-01:35	OUTBD+	00:10	4.4	01:35	4.5
			01:10-02:15	INBD -	01:10-01:50	INBD -	01:10	4.5	02:15	4.4
	08:50	1.3	08:15-08:55	INBD -	08:35-08:55	INBD -	08:15	1.2	08:55	1.3
			08:45-09:35	OUTBD+	08:45-09:10	OUTBD+	08:45	1.3	09:35	1.5
	15:13	3.8	13:55-15:30	OUTBD+	14:40-15:30	OUTBD+	13:55	3.6	15:30	3.7
			14:55-17:00	INBD -	14:55-15:50	INBD -	14:55	3.8	17:00	3.4
20:44	2.8	19:30-20:55	INBD -	20:15-20:55	INBD -	19:30	2.8	20:55	2.8	
		20:30-22:00	OUTBD+	20:30-21:15	OUTBD+	20:30	2.8	22:00	3.2	
2015/06/13	02:08	4.5	00:25-02:20	OUTBD+	01:35-02:20	OUTBD+	00:25	4.2	02:20	4.5
			01:55-03:05	INBD -	01:55-02:35	INBD -	01:55	4.5	03:05	4.3
	09:43	1.0	09:10-09:50	INBD -	09:30-09:50	INBD -	09:10	0.9	09:50	1.0
			09:35-10:25	OUTBD+	09:35-10:00	OUTBD+	09:35	0.9	10:25	1.2
	16:19	4.0	15:20-16:35	OUTBD+	15:50-16:35	OUTBD+	15:20	3.9	16:35	4.0
			16:05-18:15	INBD -	16:05-16:55	INBD -	16:05	4.0	18:15	3.7
21:48	3.0	20:45-22:00	INBD -	21:20-22:00	INBD -	20:45	3.0	22:00	3.0	
		21:35-23:10	OUTBD+	21:35-22:15	OUTBD+	21:35	3.0	23:10	3.4	

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/06/14	02:54	4.4	00:10-03:05	OUTBD+	02:15-03:05	OUTBD+	00:10	3.8	03:05	4.4
			02:40-03:50	INBD -	02:40-03:20	INBD -	02:40	4.4	03:50	4.2
	10:34	0.8	10:05-10:40	INBD -	10:20-10:40	INBD -	10:05	0.7	10:40	0.8
			10:30-11:15	OUTBD+	10:30-10:50	OUTBD+	10:30	0.7	11:15	1.0
	17:15	4.3	16:20-17:30	OUTBD+	16:50-17:30	OUTBD+	16:20	4.2	17:30	4.3
			17:00-19:05	INBD -	17:00-17:45	INBD -	17:00	4.3	19:05	3.9
22:44	3.1	21:50-22:55	INBD -	22:20-22:55	INBD -	21:50	3.1	22:55	3.1	
		22:35-03:55	OUTBD+	22:35-23:10	OUTBD+	22:35	3.1	03:55	4.3	
2015/06/15	03:40	4.4			02:55-03:55	OUTBD+	02:55	4.3	03:55	4.3
			03:20-04:40	INBD -	03:20-04:10	INBD -	03:20	4.4	04:40	4.1
	11:22	0.6	10:55-11:30	INBD -	11:10-11:30	INBD -	10:55	0.5	11:30	0.7
			11:15-12:00	OUTBD+	11:15-11:35	OUTBD+	11:15	0.6	12:00	0.9
	18:02	4.4	17:10-18:15	OUTBD+	17:40-18:15	OUTBD+	17:10	4.4	18:15	4.4
			17:50-19:40	INBD -	17:50-18:30	INBD -	17:50	4.4	19:40	4.1
23:34	3.1	22:45-23:45	INBD -	23:10-23:45	INBD -	22:45	3.1	23:45	3.1	
		23:25-04:40	OUTBD+	23:25-00:00	OUTBD+	23:25	3.1	04:40	4.3	
2015/06/16	04:25	4.3			03:30-04:40	OUTBD+	03:30	4.2	04:40	4.3
			04:05-05:25	INBD -	04:05-04:55	INBD -	04:05	4.3	05:25	4.0
	12:08	0.6	11:40-12:15	INBD -	11:55-12:15	INBD -	11:40	0.5	12:15	0.6
			12:00-12:45	OUTBD+	12:00-12:25	OUTBD+	12:00	0.5	12:45	0.9
	18:45	4.5	18:00-18:55	OUTBD+	18:25-18:55	OUTBD+	18:00	4.5	18:55	4.5
			18:35-20:10	INBD -	18:35-19:15	INBD -	18:35	4.5	20:10	4.3
00:21	3.1	23:30-00:30	INBD -	00:00-00:30	INBD -	23:30	3.1	00:30	3.1	
2015/06/17			00:10-05:25	OUTBD+	00:10-00:50	OUTBD+	00:10	3.1	05:25	4.2
	05:09	4.2			04:05-05:25	OUTBD+	04:05	4.1	05:25	4.2
			04:45-06:10	INBD -	04:45-05:40	INBD -	04:45	4.2	06:10	4.0
	12:50	0.6	12:20-12:55	INBD -	12:35-12:55	INBD -	12:20	0.5	12:55	0.6
			12:45-13:25	OUTBD+	12:45-13:05	OUTBD+	12:45	0.6	13:25	0.9
	19:26	4.6	18:40-19:35	OUTBD+	19:05-19:35	OUTBD+	18:40	4.5	19:35	4.6
2015/06/18			19:15-20:35	INBD -	19:15-19:50	INBD -	19:15	4.6	20:35	4.4
	01:09	3.1	00:15-01:20	INBD -	00:45-01:20	INBD -	00:15	3.1	01:20	3.1
			01:00-06:10	OUTBD+	01:00-01:35	OUTBD+	01:00	3.1	06:10	4.0
	05:51	4.0			04:45-06:10	OUTBD+	04:45	4.0	06:10	4.0
			05:30-06:55	INBD -	05:30-06:25	INBD -	05:30	4.1	06:55	3.8
	13:29	0.7	13:00-13:35	INBD -	13:15-13:35	INBD -	13:00	0.6	13:35	0.8
20:05	4.6	13:25-14:05	OUTBD+	13:25-13:45	OUTBD+	13:25	0.7	14:05	1.0	
		19:15-20:15	OUTBD+	19:40-20:15	OUTBD+	19:15	4.5	20:15	4.6	
		19:55-21:10	INBD -	19:55-20:30	INBD -	19:55	4.6	21:10	4.4	
2015/06/19	01:58	3.0	01:00-02:10	INBD -	01:30-02:10	INBD -	01:00	3.1	02:10	3.1
			01:45-06:50	OUTBD+	01:45-02:30	OUTBD+	01:45	3.0	06:50	3.9
	06:32	3.9			05:25-06:50	OUTBD+	05:25	3.8	06:50	3.9
			06:10-07:40	INBD -	06:10-07:10	INBD -	06:10	3.9	07:40	3.7
	14:06	0.9	13:30-14:10	INBD -	13:50-14:10	INBD -	13:30	0.8	14:10	0.9
			14:00-14:45	OUTBD+	14:00-14:20	OUTBD+	14:00	0.9	14:45	1.2
20:43	4.6	19:55-20:55	OUTBD+	20:20-20:55	OUTBD+	19:55	4.5	20:55	4.6	
		20:30-21:50	INBD -	20:30-21:10	INBD -	20:30	4.6	21:50	4.4	
2015/06/20	02:51	3.0	01:45-03:05	INBD -	02:20-03:05	INBD -	01:45	3.0	03:05	3.0
			02:35-07:35	OUTBD+	02:35-03:30	OUTBD+	02:35	2.9	07:35	3.7
	07:16	3.7			06:10-07:35	OUTBD+	06:10	3.6	07:35	3.7
			06:55-08:30	INBD -	06:55-07:55	INBD -	06:55	3.7	08:30	3.5
	14:40	1.1	14:00-14:50	INBD -	14:20-14:50	INBD -	14:00	1.1	14:50	1.2
			14:30-15:25	OUTBD+	14:30-15:00	OUTBD+	14:30	1.1	15:25	1.4
21:20	4.6	20:25-21:30	OUTBD+	20:55-21:30	OUTBD+	20:25	4.4	21:30	4.5	
		21:10-22:30	INBD -	21:10-21:50	INBD -	21:10	4.6	22:30	4.4	

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/06/21	03:48	2.8	02:35-04:05	INBD -	03:15-04:05	INBD -	02:35	2.9	04:05	2.9
			03:30-08:25	OUTBD+	03:30-04:40	OUTBD+	03:30	2.8	08:25	3.5
	08:05	3.5			07:05-08:25	OUTBD+	07:05	3.4	08:25	3.5
			07:45-09:30	INBD -	07:45-08:45	INBD -	07:45	3.5	09:30	3.2
	15:13	1.4	14:20-15:25	INBD -	14:50-15:25	INBD -	14:20	1.4	15:25	1.5
			15:05-16:05	OUTBD+	15:05-15:35	OUTBD+	15:05	1.4	16:05	1.7
21:55	4.5	20:55-22:10	OUTBD+	21:25-22:10	OUTBD+	20:55	4.4	22:10	4.5	
		21:40-23:10	INBD -	21:40-22:25	INBD -	21:40	4.5	23:10	4.3	
2015/06/22	04:48	2.7	03:25-05:10	INBD -	04:10-05:10	INBD -	03:25	2.8	05:10	2.7
			04:30-09:25	OUTBD+	04:30-05:45	OUTBD+	04:30	2.7	09:25	3.3
	09:02	3.3			08:05-09:25	OUTBD+	08:05	3.2	09:25	3.3
			08:40-11:00	INBD -	08:40-09:50	INBD -	08:40	3.3	11:00	2.9
	15:46	1.7	14:35-16:00	INBD -	15:15-16:00	INBD -	14:35	1.7	16:00	1.8
			15:35-16:50	OUTBD+	15:35-16:15	OUTBD+	15:35	1.7	16:50	2.0
22:30	4.4	21:20-22:45	OUTBD+	22:00-22:45	OUTBD+	21:20	4.3	22:45	4.4	
		22:15-23:50	INBD -	22:15-23:05	INBD -	22:15	4.4	23:50	4.2	
2015/06/23	05:46	2.5	04:25-06:05	INBD -	05:10-06:05	INBD -	04:25	2.5	06:05	2.5
			05:30-10:40	OUTBD+	05:30-06:40	OUTBD+	05:30	2.5	10:40	3.1
	10:10	3.1			09:10-10:40	OUTBD+	09:10	3.1	10:40	3.1
			09:45-13:05	INBD -	09:45-11:25	INBD -	09:45	3.1	13:05	2.6
	16:20	2.1	14:40-16:35	INBD -	15:40-16:35	INBD -	14:40	2.2	16:35	2.1
			16:05-17:45	OUTBD+	16:05-17:00	OUTBD+	16:05	2.1	17:45	2.4
23:03	4.4	21:40-23:20	OUTBD+	22:30-23:20	OUTBD+	21:40	4.1	23:20	4.3	
		22:45-00:30	INBD -	22:45-23:40	INBD -	22:45	4.3	00:30	4.1	
2015/06/24	06:40	2.2	05:25-07:00	INBD -	06:05-07:00	INBD -	05:25	2.3	07:00	2.3
			06:25-12:40	OUTBD+	06:25-07:25	OUTBD+	06:25	2.2	12:40	3.0
	11:44	3.1			10:25-12:40	OUTBD+	10:25	3.0	12:40	3.0
			11:05-17:25	INBD -	11:05-13:25	INBD -	11:05	3.1	17:25	2.5
	17:02	2.4	16:40-19:20	OUTBD+	16:40-17:50	OUTBD+	16:40	2.4	17:25	2.5
			21:50-23:55	OUTBD+	23:00-23:55	OUTBD+	21:50	4.0	23:55	4.3
23:38	4.3	23:20-01:10	INBD -	23:20-00:15	INBD -	23:20	4.3	01:10	4.0	
2015/06/25	07:29	2.0	06:20-07:45	INBD -	06:55-07:45	INBD -	06:20	2.0	07:45	2.0
			07:15-09:35	OUTBD+	07:15-08:05	OUTBD+	07:15	2.0	09:35	2.5
	13:39	3.2	10:10-14:15	OUTBD+	11:55-14:15	OUTBD+	10:10	2.7	14:15	3.2
			12:50-18:30	INBD -	12:50-14:50	INBD -	12:50	3.2	18:30	2.8
	17:59	2.8	16:50-18:30	INBD -	16:50-18:30	INBD -	16:50	2.8	18:30	2.8
			17:30-00:30	OUTBD+	17:30-19:05	OUTBD+	17:30	2.7	00:30	4.2
00:14	4.2	23:30-00:30	OUTBD+	23:30-00:30	OUTBD+	23:30	4.2	00:30	4.2	
		23:55-01:45	INBD -	23:55-00:55	INBD -	23:55	4.2	01:45	4.0	
2015/06/26	08:13	1.7	07:15-08:25	INBD -	07:45-08:25	INBD -	07:15	1.7	08:25	1.8
			08:00-09:40	OUTBD+	08:00-08:45	OUTBD+	08:00	1.7	09:40	2.1
	14:52	3.4	12:05-15:15	OUTBD+	13:45-15:15	OUTBD+	12:05	3.0	15:15	3.4
			14:25-19:50	INBD -	14:25-15:50	INBD -	14:25	3.4	19:50	3.1
	19:16	3.0	17:55-19:50	INBD -	17:55-19:50	INBD -	17:55	3.0	19:50	3.1
			18:40-01:10	OUTBD+	18:40-20:30	OUTBD+	18:40	3.0	01:10	4.2
2015/06/27	00:52	4.2			00:10-01:10	OUTBD+	00:10	4.1	01:10	4.2
			00:35-02:15	INBD -	00:35-01:30	INBD -	00:35	4.2	02:15	4.0
	08:56	1.5	08:05-09:05	INBD -	08:35-09:05	INBD -	08:05	1.5	09:05	1.5
			08:45-10:05	OUTBD+	08:45-09:20	OUTBD+	08:45	1.5	10:05	1.8
	15:46	3.7	13:50-16:05	OUTBD+	15:00-16:05	OUTBD+	13:50	3.4	16:05	3.7
			15:25-21:00	INBD -	15:25-16:30	INBD -	15:25	3.7	21:00	3.2
20:35	3.2	19:25-21:00	INBD -	19:25-21:00	INBD -	19:25	3.2	21:00	3.2	
		20:05-01:50	OUTBD+	20:05-21:35	OUTBD+	20:05	3.2	01:50	4.2	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER TIMES	WATER HEIGHTS	2 KNOT WINDOW PERIOD	WINDOW TRANSIT	1 KNOT CURRENT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/06/28	01:32	4.2			00:45-01:50	OUTBD+	00:45	4.1	01:50	4.2
			01:15-02:50	INBD -	01:15-02:10	INBD -	01:15	4.2	02:50	4.0
	09:39	1.2	08:55-09:45	INBD -	09:20-09:45	INBD -	08:55	1.2	09:45	1.3
			09:30-10:30	OUTBD+	09:30-10:00	OUTBD+	09:30	1.2	10:30	1.5
	16:32	3.9	15:10-16:50	OUTBD+	15:55-16:50	OUTBD+	15:10	3.8	16:50	3.9
21:38	3.3	16:15-22:00	INBD -	16:15-17:10	INBD -	16:15	3.9	22:00	3.3	
		20:50-22:00	INBD -	20:50	3.3	22:00	3.3			
		21:15-02:30	OUTBD+	21:15-22:25	OUTBD+	21:15	3.3	02:30	4.2	
2015/06/29	02:14	4.2			01:20-02:30	OUTBD+	01:20	4.1	02:30	4.2
			01:55-03:25	INBD -	01:55-02:50	INBD -	01:55	4.2	03:25	4.0
	10:22	1.0	09:45-10:30	INBD -	10:05-10:30	INBD -	09:45	1.0	10:30	1.0
			10:15-11:05	OUTBD+	10:15-10:40	OUTBD+	10:15	1.0	11:05	1.2
	17:14	4.1	16:10-17:30	OUTBD+	16:45-17:30	OUTBD+	16:10	4.0	17:30	4.1
22:29	3.3	17:00-18:45	INBD -	17:00-17:50	INBD -	17:00	4.1	18:45	3.9	
		20:45-22:45	INBD -	21:55-22:45	INBD -	20:45	3.4	22:45	3.3	
		22:15-03:15	OUTBD+	22:15-23:05	OUTBD+	22:15	3.3	03:15	4.2	
2015/06/30	02:57	4.2			02:00-03:15	OUTBD+	02:00	4.1	03:15	4.2
			02:35-04:05	INBD -	02:35-03:35	INBD -	02:35	4.2	04:05	4.0
	11:05	0.8	10:30-11:10	INBD -	10:50-11:10	INBD -	10:30	0.7	11:10	0.8
			11:00-11:45	OUTBD+	11:00-11:20	OUTBD+	11:00	0.8	11:45	1.0
	17:56	4.3	17:00-18:10	OUTBD+	17:30-18:10	OUTBD+	17:00	4.2	18:10	4.3
23:15	3.3	17:45-19:15	INBD -	17:45-18:25	INBD -	17:45	4.3	19:15	4.1	
		22:00-23:30	INBD -	22:45-23:30	INBD -	22:00	3.4	23:30	3.3	
		23:00-04:00	OUTBD+	23:00-23:45	OUTBD+	23:00	3.3	04:00	4.2	

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS July 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/07/01	03:43	4.3			02:40-04:00	OUTBD+	02:40	4.2	04:00	4.2
			03:20-04:50	INBD -	03:20-04:20	INBD -	03:20	4.2	04:50	4.1
	11:49	0.6	11:20-11:55	INBD -	11:35-11:55	INBD -	11:20	0.6	11:55	0.7
			11:45-12:25	OUTBD+	11:45-12:05	OUTBD+	11:45	0.6	12:25	0.9
	18:36	4.4	17:45-18:50	OUTBD+	18:15-18:50	OUTBD+	17:45	4.4	18:50	4.4
		18:25-19:50	INBD -	18:25-19:05	INBD -	18:25	4.4	19:50	4.2	
2015/07/01	00:00	3.3	23:00-00:10	INBD -	23:35-00:10	INBD -	23:00	3.3	00:10	3.3
			23:50-01:15	OUTBD+	23:50-00:25	OUTBD+	23:50	3.2	01:15	3.6
2015/07/02	04:33	4.3	02:00-04:50	OUTBD+	03:25-04:50	OUTBD+	02:00	3.8	04:50	4.2
			04:10-05:35	INBD -	04:10-05:10	INBD -	04:10	4.3	05:35	4.1
	12:32	0.6	12:05-12:35	INBD -	12:20-12:35	INBD -	12:05	0.5	12:35	0.6
			12:25-13:05	OUTBD+	12:25-12:45	OUTBD+	12:25	0.5	13:05	0.8
	19:16	4.5	18:30-19:25	OUTBD+	18:55-19:25	OUTBD+	18:30	4.5	19:25	4.5
		19:05-20:25	INBD -	19:05-19:40	INBD -	19:05	4.5	20:25	4.3	
2015/07/02	00:47	3.2	23:50-00:55	INBD -	00:25-00:55	INBD -	23:50	3.2	00:55	3.2
			00:35-01:50	OUTBD+	00:35-01:10	OUTBD+	00:35	3.2	01:50	3.4
	05:27	4.2	02:55-05:45	OUTBD+	04:15-05:45	OUTBD+	02:55	3.8	05:45	4.2
			05:05-06:25	INBD -	05:05-06:00	INBD -	05:05	4.2	06:25	4.0
2015/07/03	13:14	0.6	12:45-13:20	INBD -	13:00-13:20	INBD -	12:45	0.4	13:20	0.6
			13:10-13:45	OUTBD+	13:10-13:30	OUTBD+	13:10	0.5	13:45	0.8
	19:55	4.6	19:15-20:05	OUTBD+	19:35-20:05	OUTBD+	19:15	4.6	20:05	4.6
		19:45-20:55	INBD -	19:45-20:20	INBD -	19:45	4.6	20:55	4.4	
2015/07/04	01:38	3.1	00:45-01:45	INBD -	01:15-01:45	INBD -	00:45	3.1	01:45	3.1
			01:30-02:40	OUTBD+	01:30-02:00	OUTBD+	01:30	3.0	02:40	3.3
	06:24	4.1	03:40-06:40	OUTBD+	05:20-06:40	OUTBD+	03:40	3.6	06:40	4.1
			06:05-07:20	INBD -	06:05-06:50	INBD -	06:05	4.1	07:20	3.9
	13:56	0.7	13:30-14:00	INBD -	13:45-14:00	INBD -	13:30	0.5	14:00	0.7
		13:50-14:25	OUTBD+	13:50-14:10	OUTBD+	13:50	0.6	14:25	0.9	
2015/07/04	20:34	4.7	19:55-20:45	OUTBD+	20:15-20:45	OUTBD+	19:55	4.6	20:45	4.6
			20:25-21:30	INBD -	20:25-20:55	INBD -	20:25	4.7	21:30	4.5
2015/07/05	02:32	2.9	01:45-02:40	INBD -	02:10-02:40	INBD -	01:45	2.9	02:40	2.9
			02:25-03:40	OUTBD+	02:25-02:55	OUTBD+	02:25	2.9	03:40	3.2
	07:21	4.0	04:30-07:35	OUTBD+	06:35-07:35	OUTBD+	04:30	3.4	07:35	3.9
			07:05-08:15	INBD -	07:05-07:50	INBD -	07:05	4.0	08:15	3.8
	14:38	0.9	14:05-14:45	INBD -	14:25-14:45	INBD -	14:05	0.8	14:45	0.9
		14:35-15:10	OUTBD+	14:35-14:50	OUTBD+	14:35	0.8	15:10	1.1	
2015/07/05	21:13	4.7	20:35-21:20	OUTBD+	20:55-21:20	OUTBD+	20:35	4.7	21:20	4.7
			21:05-22:05	INBD -	21:05-21:35	INBD -	21:05	4.7	22:05	4.5
2015/07/06	03:30	2.6	02:45-03:40	INBD -	03:10-03:40	INBD -	02:45	2.6	03:40	2.7
			03:20-04:50	OUTBD+	03:20-03:55	OUTBD+	03:20	2.6	04:50	3.0
	08:22	3.8	05:25-08:35	OUTBD+	07:45-08:35	OUTBD+	05:25	3.2	08:35	3.8
			08:10-09:15	INBD -	08:10-08:50	INBD -	08:10	3.8	09:15	3.6
	15:22	1.2	14:45-15:30	INBD -	15:05-15:30	INBD -	14:45	1.1	15:30	1.2
		15:15-15:55	OUTBD+	15:15-15:35	OUTBD+	15:15	1.1	15:55	1.4	
2015/07/06	21:53	4.7	21:10-22:00	OUTBD+	21:35-22:00	OUTBD+	21:10	4.7	22:00	4.7
			21:45-22:45	INBD -	21:45-22:15	INBD -	21:45	4.7	22:45	4.5

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 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/07/07	04:30	2.4	03:45-04:40	INBD -	04:10-04:40	INBD -	03:45	2.3	04:40	2.4
			04:20-05:50	OUTBD+	04:20-04:55	OUTBD+	04:20	2.3	05:50	2.7
	09:29	3.6	07:05-09:40	OUTBD+	08:55-09:40	OUTBD+	07:05	3.1	09:40	3.6
			09:15-10:30	INBD -	09:15-10:00	INBD -	09:15	3.6	10:30	3.4
	16:08	1.6	15:25-16:15	INBD -	15:50-16:15	INBD -	15:25	1.5	16:15	1.6
			16:00-16:50	OUTBD+	16:00-16:25	OUTBD+	16:00	1.6	16:50	1.8
22:34	4.7	21:45-22:45	OUTBD+	22:15-22:45	OUTBD+	21:45	4.6	22:45	4.7	
		22:25-23:25	INBD -	22:25-22:55	INBD -	22:25	4.7	23:25	4.5	
2015/07/08	05:30	2.0	04:45-05:40	INBD -	05:10-05:40	INBD -	04:45	2.0	05:40	2.1
			05:20-06:40	OUTBD+	05:20-05:55	OUTBD+	05:20	2.0	06:40	2.3
	10:46	3.5	09:15-11:00	OUTBD+	10:10-11:00	OUTBD+	09:15	3.2	11:00	3.4
			10:30-12:10	INBD -	10:30-11:20	INBD -	10:30	3.5	12:10	3.2
	17:01	2.1	16:00-17:10	INBD -	16:35-17:10	INBD -	16:00	2.0	17:10	2.1
			16:50-17:55	OUTBD+	16:50-17:25	OUTBD+	16:50	2.0	17:55	2.3
23:16	4.6	22:20-23:25	OUTBD+	22:50-23:25	OUTBD+	22:20	4.6	23:25	4.6	
		23:05-00:10	INBD -	23:05-23:40	INBD -	23:05	4.6	00:10	4.4	
2015/07/09	06:29	1.7	05:50-06:40	INBD -	06:10-06:40	INBD -	05:50	1.7	06:40	1.7
			06:20-07:30	OUTBD+	06:20-06:50	OUTBD+	06:20	1.7	07:30	1.9
	12:17	3.5	10:45-12:35	OUTBD+	11:35-12:35	OUTBD+	10:45	3.2	12:35	3.5
			12:00-14:05	INBD -	12:00-13:00	INBD -	12:00	3.5	14:05	3.2
	18:03	2.5	16:40-18:15	INBD -	17:30-18:15	INBD -	16:40	2.5	18:15	2.5
			17:50-19:15	OUTBD+	17:50-18:35	OUTBD+	17:50	2.5	19:15	2.8
23:59	4.5	22:45-00:10	OUTBD+	23:30-00:10	OUTBD+	22:45	4.4	00:10	4.5	
		23:45-00:55	INBD -	23:45-00:25	INBD -	23:45	4.5	00:55	4.3	
2015/07/10	07:28	1.4	06:50-07:35	INBD -	07:10-07:35	INBD -	06:50	1.4	07:35	1.4
			07:20-08:20	OUTBD+	07:20-07:50	OUTBD+	07:20	1.4	08:20	1.6
	13:51	3.6	12:20-14:10	OUTBD+	13:10-14:10	OUTBD+	12:20	3.4	14:10	3.6
			13:35-19:30	INBD -	13:35-14:35	INBD -	13:35	3.6	19:30	2.9
	19:16	2.9			18:40-19:30	INBD -	18:40	2.8	19:30	2.9
			19:00-21:15	OUTBD+	19:00-19:50	OUTBD+	19:00	2.8	21:15	3.5
00:44	4.4	22:30-01:00	OUTBD+	00:10-01:00	OUTBD+	22:30	4.0	01:00	4.4	
2015/07/11			00:30-01:45	INBD -	00:30-01:15	INBD -	00:30	4.4	01:45	4.2
	08:25	1.1	07:50-08:30	INBD -	08:10-08:30	INBD -	07:50	1.1	08:30	1.1
			08:20-09:15	OUTBD+	08:20-08:45	OUTBD+	08:20	1.1	09:15	1.4
	15:10	3.9	13:55-15:30	OUTBD+	14:35-15:30	OUTBD+	13:55	3.7	15:30	3.9
			14:55-20:50	INBD -	14:55-15:55	INBD -	14:55	3.9	20:50	3.2
	20:33	3.1			20:00-20:50	INBD -	20:00	3.1	20:50	3.2
20:15-01:50			OUTBD+	20:15-21:10	OUTBD+	20:15	3.1	01:50	4.3	
2015/07/12	01:32	4.3			00:45-01:50	OUTBD+	00:45	4.3	01:50	4.3
			01:15-02:40	INBD -	01:15-02:05	INBD -	01:15	4.3	02:40	4.1
	09:21	0.9	08:45-09:30	INBD -	09:05-09:30	INBD -	08:45	0.9	09:30	1.0
			09:15-10:10	OUTBD+	09:15-09:40	OUTBD+	09:15	0.9	10:10	1.2
	16:14	4.1	15:10-16:30	OUTBD+	15:45-16:30	OUTBD+	15:10	4.0	16:30	4.1
			16:00-18:50	INBD -	16:00-16:55	INBD -	16:00	4.1	18:50	3.6
21:41	3.2	20:25-21:55	INBD -	21:10-21:55	INBD -	20:25	3.2	21:55	3.3	
		21:25-02:40	OUTBD+	21:25-22:20	OUTBD+	21:25	3.2	02:40	4.2	
2015/07/13	02:22	4.3			01:25-02:40	OUTBD+	01:25	4.2	02:40	4.2
			02:00-03:35	INBD -	02:00-03:00	INBD -	02:00	4.3	03:35	4.0
	10:14	0.8	09:40-10:20	INBD -	10:00-10:20	INBD -	09:40	0.7	10:20	0.8
			10:10-11:00	OUTBD+	10:10-10:35	OUTBD+	10:10	0.8	11:00	1.1
	17:06	4.3	16:10-17:20	OUTBD+	16:40-17:20	OUTBD+	16:10	4.2	17:20	4.3
			16:55-19:25	INBD -	16:55-17:45	INBD -	16:55	4.3	19:25	3.8
22:37	3.2	21:35-22:50	INBD -	22:10-22:50	INBD -	21:35	3.2	22:50	3.3	
		22:25-03:35	OUTBD+	22:25-23:10	OUTBD+	22:25	3.2	03:35	4.2	

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/07/14	03:14	4.2			02:05-03:35	OUTBD+	02:05	4.1	03:35	4.2
			02:50-04:30	INBD -	02:50-03:55	INBD -	02:50	4.2	04:30	3.9
	11:03	0.7	10:30-11:10	INBD -	10:50-11:10	INBD -	10:30	0.7	11:10	0.8
			10:55-11:50	OUTBD+	10:55-11:20	OUTBD+	10:55	0.7	11:50	1.0
	17:50	4.4	17:00-18:05	OUTBD+	17:25-18:05	OUTBD+	17:00	4.3	18:05	4.4
23:25	3.2		17:40-20:00	INBD -	17:40-18:20	INBD -	17:40	4.4	20:00	4.0
			22:30-23:40	INBD -	23:00-23:40	INBD -	22:30	3.2	23:40	3.2
			23:15-04:25	OUTBD+	23:15-23:55	OUTBD+	23:15	3.2	04:25	4.1
2015/07/15	04:06	4.1			02:50-04:25	OUTBD+	02:50	4.0	04:25	4.1
			03:40-05:15	INBD -	03:40-04:45	INBD -	03:40	4.2	05:15	3.9
	11:48	0.7	11:15-11:55	INBD -	11:35-11:55	INBD -	11:15	0.6	11:55	0.8
			11:40-12:30	OUTBD+	11:40-12:05	OUTBD+	11:40	0.7	12:30	1.0
	18:29	4.5	17:45-18:40	OUTBD+	18:05-18:40	OUTBD+	17:45	4.4	18:40	4.5
00:10	3.1		18:20-20:20	INBD -	18:20-18:55	INBD -	18:20	4.5	20:20	4.1
			23:20-00:20	INBD -	23:45-00:20	INBD -	23:20	3.1	00:20	3.1
2015/07/16			00:00-05:10	OUTBD+	00:00-00:35	OUTBD+	00:00	3.1	05:10	4.1
	04:53	4.1			03:35-05:10	OUTBD+	03:35	4.0	05:10	4.1
			04:25-06:00	INBD -	04:25-05:30	INBD -	04:25	4.1	06:00	3.9
	12:28	0.8	11:55-12:35	INBD -	12:15-12:35	INBD -	11:55	0.7	12:35	0.8
			12:20-13:10	OUTBD+	12:20-12:45	OUTBD+	12:20	0.7	13:10	1.1
19:05	4.5		18:20-19:15	OUTBD+	18:45-19:15	OUTBD+	18:20	4.4	19:15	4.5
			18:55-20:20	INBD -	18:55-19:30	INBD -	18:55	4.5	20:20	4.3
2015/07/17	00:53	3.0	00:05-01:05	INBD -	00:30-01:05	INBD -	00:05	3.0	01:05	3.0
			00:45-05:55	OUTBD+	00:45-01:20	OUTBD+	00:45	3.0	05:55	4.0
	05:37	4.0			04:30-05:55	OUTBD+	04:30	3.9	05:55	4.0
			05:15-06:45	INBD -	05:15-06:10	INBD -	05:15	4.0	06:45	3.8
	13:04	0.9	12:30-13:10	INBD -	12:50-13:10	INBD -	12:30	0.8	13:10	0.9
19:39	4.5		13:00-13:45	OUTBD+	13:00-13:20	OUTBD+	13:00	0.9	13:45	1.1
			18:55-19:50	OUTBD+	19:15-19:50	OUTBD+	18:55	4.4	19:50	4.5
			19:30-20:45	INBD -	19:30-20:05	INBD -	19:30	4.5	20:45	4.3
2015/07/18	01:37	2.9	00:45-01:50	INBD -	01:15-01:50	INBD -	00:45	2.9	01:50	2.9
			01:25-06:35	OUTBD+	01:25-02:05	OUTBD+	01:25	2.9	06:35	3.9
	06:20	3.9			05:20-06:35	OUTBD+	05:20	3.8	06:35	3.9
			06:00-07:25	INBD -	06:00-06:55	INBD -	06:00	3.9	07:25	3.7
	13:37	1.1	13:00-13:45	INBD -	13:20-13:45	INBD -	13:00	1.0	13:45	1.1
20:10	4.5		13:30-14:15	OUTBD+	13:30-13:55	OUTBD+	13:30	1.0	14:15	1.3
			19:25-20:20	OUTBD+	19:50-20:20	OUTBD+	19:25	4.4	20:20	4.5
		20:00-21:15	INBD -	20:00-20:35	INBD -	20:00	4.5	21:15	4.3	
2015/07/19	02:22	2.8	01:25-02:35	INBD -	01:55-02:35	INBD -	01:25	2.8	02:35	2.8
			02:10-07:20	OUTBD+	02:10-02:50	OUTBD+	02:10	2.8	07:20	3.7
	07:04	3.8			06:15-07:20	OUTBD+	06:15	3.7	07:20	3.7
			06:45-08:15	INBD -	06:45-07:40	INBD -	06:45	3.8	08:15	3.5
	14:08	1.3	13:25-14:15	INBD -	13:50-14:15	INBD -	13:25	1.2	14:15	1.3
20:40	4.5		14:00-14:50	OUTBD+	14:00-14:25	OUTBD+	14:00	1.3	14:50	1.5
			19:50-20:50	OUTBD+	20:15-20:50	OUTBD+	19:50	4.4	20:50	4.5
		20:30-21:45	INBD -	20:30-21:05	INBD -	20:30	4.5	21:45	4.3	
2015/07/20	03:08	2.7	02:10-03:20	INBD -	02:40-03:20	INBD -	02:10	2.7	03:20	2.7
			02:55-08:10	OUTBD+	02:55-03:40	OUTBD+	02:55	2.6	08:10	3.6
	07:52	3.6			07:05-08:10	OUTBD+	07:05	3.6	08:10	3.6
			07:35-09:10	INBD -	07:35-08:25	INBD -	07:35	3.6	09:10	3.3
	14:38	1.6	13:45-14:45	INBD -	14:15-14:45	INBD -	13:45	1.5	14:45	1.6
21:08	4.4		14:30-15:30	OUTBD+	14:30-15:00	OUTBD+	14:30	1.5	15:30	1.8
			20:10-21:20	OUTBD+	20:40-21:20	OUTBD+	20:10	4.3	21:20	4.4
		20:55-22:20	INBD -	20:55-21:35	INBD -	20:55	4.4	22:20	4.2	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/07/21	03:56	2.5	02:50-04:10	INBD -	03:25-04:10	INBD -	02:50	2.5	04:10	2.5
			03:40-09:00	OUTBD+	03:40-04:35	OUTBD+	03:40	2.5	09:00	3.4
	08:44	3.4			08:00-09:00	OUTBD+	08:00	3.4	09:00	3.4
			08:25-10:30	INBD -	08:25-09:25	INBD -	08:25	3.4	10:30	3.1
	15:07	1.9	14:00-15:20	INBD -	14:40-15:20	INBD -	14:00	1.9	15:20	1.9
			14:55-16:10	OUTBD+	14:55-15:35	OUTBD+	14:55	1.9	16:10	2.2
21:36	4.4	20:30-21:50	OUTBD+	21:10-21:50	OUTBD+	20:30	4.2	21:50	4.4	
		21:25-22:50	INBD -	21:25-22:05	INBD -	21:25	4.4	22:50	4.1	
2015/07/22	04:46	2.3	03:35-05:05	INBD -	04:15-05:05	INBD -	03:35	2.4	05:05	2.4
			04:30-10:05	OUTBD+	04:30-05:25	OUTBD+	04:30	2.3	10:05	3.3
	09:43	3.3			08:55-10:05	OUTBD+	08:55	3.3	10:05	3.3
			09:20-12:40	INBD -	09:20-10:40	INBD -	09:20	3.3	12:40	2.7
	15:40	2.2	14:05-15:55	INBD -	15:05-15:55	INBD -	14:05	2.3	15:55	2.3
			15:25-17:00	OUTBD+	15:25-16:15	OUTBD+	15:25	2.2	17:00	2.5
22:06	4.3	20:35-22:20	OUTBD+	21:35-22:20	OUTBD+	20:35	4.0	22:20	4.3	
		21:50-23:25	INBD -	21:50-22:40	INBD -	21:50	4.3	23:25	4.1	
2015/07/23	05:37	2.1	04:25-05:55	INBD -	05:05-05:55	INBD -	04:25	2.2	05:55	2.2
			05:20-11:40	OUTBD+	05:20-06:20	OUTBD+	05:20	2.1	11:40	3.2
	10:56	3.3			10:00-11:40	OUTBD+	10:00	3.2	11:40	3.2
			10:30-16:40	INBD -	10:30-12:45	INBD -	10:30	3.2	16:40	2.6
	16:19	2.6			15:35-16:40	INBD -	15:35	2.6	16:40	2.6
			16:00-22:55	OUTBD+	16:00-17:05	OUTBD+	16:00	2.6	22:55	4.2
22:39	4.2			22:00-22:55	OUTBD+	22:00	4.2	22:55	4.2	
		22:25-00:00	INBD -	22:25-23:15	INBD -	22:25	4.2	00:00	4.0	
2015/07/24	06:27	1.9	05:15-06:45	INBD -	05:55-06:45	INBD -	05:15	2.0	06:45	2.0
			06:10-08:30	OUTBD+	06:10-07:05	OUTBD+	06:10	1.9	08:30	2.4
	12:43	3.3	09:50-13:30	OUTBD+	11:15-13:30	OUTBD+	09:50	2.9	13:30	3.3
			11:50-17:40	INBD -	11:50-14:15	INBD -	11:50	3.3	17:40	2.9
	17:13	2.9			16:15-17:40	INBD -	16:15	2.9	17:40	2.9
			16:45-23:35	OUTBD+	16:45-18:15	OUTBD+	16:45	2.9	23:35	4.2
23:17	4.2			22:30-23:35	OUTBD+	22:30	4.1	23:35	4.2	
		23:00-00:40	INBD -	23:00-23:55	INBD -	23:00	4.2	00:40	3.9	
2015/07/25	07:17	1.7	06:10-07:30	INBD -	06:45-07:30	INBD -	06:10	1.7	07:30	1.7
			07:05-08:50	OUTBD+	07:05-07:50	OUTBD+	07:05	1.7	08:50	2.1
	14:12	3.5	11:25-14:45	OUTBD+	12:50-14:45	OUTBD+	11:25	3.1	14:45	3.5
			13:35-19:00	INBD -	13:35-15:20	INBD -	13:35	3.5	19:00	3.2
	18:27	3.2			17:15-19:00	INBD -	17:15	3.2	19:00	3.2
			17:55-00:15	OUTBD+	17:55-19:50	OUTBD+	17:55	3.1	00:15	4.1
23:59	4.1			23:00-00:15	OUTBD+	23:00	4.1	00:15	4.1	
		23:40-01:20	INBD -	23:40-00:35	INBD -	23:40	4.1	01:20	3.9	
2015/07/26	08:07	1.5	07:10-08:20	INBD -	07:40-08:20	INBD -	07:10	1.5	08:20	1.5
			07:55-09:20	OUTBD+	07:55-08:35	OUTBD+	07:55	1.5	09:20	1.8
	15:14	3.7	13:05-15:35	OUTBD+	14:20-15:35	OUTBD+	13:05	3.4	15:35	3.7
			14:50-20:30	INBD -	14:50-16:05	INBD -	14:50	3.7	20:30	3.4
	19:55	3.3			18:35-20:30	INBD -	18:35	3.3	20:30	3.4
			19:20-01:05	OUTBD+	19:20-21:20	OUTBD+	19:20	3.3	01:05	4.1
00:45	4.1			23:45-01:05	OUTBD+	23:45	4.0	01:05	4.1	
2015/07/27			00:25-02:05	INBD -	00:25-01:25	INBD -	00:25	4.1	02:05	3.9
	08:58	1.3	08:10-09:10	INBD -	08:35-09:10	INBD -	08:10	1.2	09:10	1.3
			08:50-09:55	OUTBD+	08:50-09:20	OUTBD+	08:50	1.2	09:55	1.5
	16:05	4.0	14:35-16:25	OUTBD+	15:25-16:25	OUTBD+	14:35	3.8	16:25	4.0
			15:45-21:35	INBD -	15:45-16:45	INBD -	15:45	4.0	21:35	3.4
	21:09	3.4			20:10-21:35	INBD -	20:10	3.4	21:35	3.4
20:45-01:55			OUTBD+	20:45-22:05	OUTBD+	20:45	3.3	01:55	4.1	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/07/28	01:35	4.1			00:40-01:55	OUTBD+	00:40	4.1	01:55	4.1
			01:15-02:55	INBD -	01:15-02:15	INBD -	01:15	4.1	02:55	3.9
	09:48	1.0	09:05-09:55	INBD -	09:30-09:55	INBD -	09:05	1.0	09:55	1.0
			09:40-10:35	OUTBD+	09:40-10:10	OUTBD+	09:40	1.0	10:35	1.3
	16:50	4.2	15:45-17:05	OUTBD+	16:20-17:05	OUTBD+	15:45	4.0	17:05	4.1
		16:35-18:45	INBD -	16:35-17:25	INBD -	16:35	4.2	18:45	3.8	
22:06	3.3	19:30-22:20	INBD -	21:25-22:20	INBD -	19:30	3.6	22:20	3.4	
		21:50-02:45	OUTBD+	21:50-22:45	OUTBD+	21:50	3.3	02:45	4.2	
2015/07/29	02:29	4.2			01:35-02:45	OUTBD+	01:35	4.1	02:45	4.2
			02:05-03:45	INBD -	02:05-03:05	INBD -	02:05	4.2	03:45	4.0
	10:38	0.8	10:05-10:45	INBD -	10:20-10:45	INBD -	10:05	0.7	10:45	0.8
			10:30-11:20	OUTBD+	10:30-10:55	OUTBD+	10:30	0.8	11:20	1.1
	17:32	4.3	16:40-17:45	OUTBD+	17:05-17:45	OUTBD+	16:40	4.2	17:45	4.3
		17:20-18:55	INBD -	17:20-18:00	INBD -	17:20	4.3	18:55	4.1	
22:55	3.3	21:40-23:05	INBD -	22:25-23:05	INBD -	21:40	3.3	23:05	3.3	
		22:45-00:10	OUTBD+	22:45-23:25	OUTBD+	22:45	3.2	00:10	3.5	
2015/07/30	03:27	4.3	01:10-03:45	OUTBD+	02:35-03:45	OUTBD+	01:10	3.9	03:45	4.2
			03:05-04:35	INBD -	03:05-04:05	INBD -	03:05	4.3	04:35	4.1
	11:26	0.7	10:55-11:30	INBD -	11:10-11:30	INBD -	10:55	0.6	11:30	0.7
			11:20-12:00	OUTBD+	11:20-11:40	OUTBD+	11:20	0.6	12:00	0.9
	18:12	4.4	17:25-18:20	OUTBD+	17:50-18:20	OUTBD+	17:25	4.4	18:20	4.4
		18:00-19:20	INBD -	18:00-18:35	INBD -	18:00	4.4	19:20	4.2	
23:43	3.1	22:50-23:50	INBD -	23:20-23:50	INBD -	22:50	3.1	23:50	3.1	
		23:35-00:35	OUTBD+	23:35-00:05	OUTBD+	23:35	3.1	00:35	3.3	
2015/07/31	04:30	4.3	02:20-04:45	OUTBD+	03:40-04:45	OUTBD+	02:20	4.0	04:45	4.3
			04:10-05:30	INBD -	04:10-05:00	INBD -	04:10	4.3	05:30	4.1
	12:11	0.6	11:45-12:15	INBD -	12:00-12:15	INBD -	11:45	0.5	12:15	0.6
			12:05-12:45	OUTBD+	12:05-12:25	OUTBD+	12:05	0.6	12:45	0.8
	18:49	4.5	18:10-19:00	OUTBD+	18:30-19:00	OUTBD+	18:10	4.5	19:00	4.5
		18:40-19:45	INBD -	18:40-19:10	INBD -	18:40	4.5	19:45	4.3	
00:31	3.0	23:45-00:40	INBD -	00:10-00:40	INBD -	23:45	2.9	00:40	3.0	

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS August 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/08/01			00:25-01:20	OUTBD+	00:25-00:50	OUTBD+	00:25	2.9	01:20	3.2
	05:31	4.3	03:15-05:45	OUTBD+	04:50-05:45	OUTBD+	03:15	3.9	05:45	4.3
			05:15-06:20	INBD -	05:15-05:55	INBD -	05:15	4.3	06:20	4.1
	12:54	0.6	12:25-13:00	INBD -	12:40-13:00	INBD -	12:25	0.5	13:00	0.7
			12:50-13:25	OUTBD+	12:50-13:05	OUTBD+	12:50	0.6	13:25	0.9
	19:26	4.6	18:50-19:35	OUTBD+	19:10-19:35	OUTBD+	18:50	4.6	19:35	4.6
		19:20-20:15	INBD -	19:20-19:45	INBD -	19:20	4.6	20:15	4.4	
2015/08/02	01:21	2.7	00:40-01:30	INBD -	01:05-01:30	INBD -	00:40	2.7	01:30	2.7
			01:15-02:05	OUTBD+	01:15-01:40	OUTBD+	01:15	2.7	02:05	2.9
	06:29	4.2	04:15-06:40	OUTBD+	06:00-06:40	OUTBD+	04:15	3.8	06:40	4.2
			06:15-07:15	INBD -	06:15-06:50	INBD -	06:15	4.2	07:15	4.0
	13:35	0.8	13:05-13:40	INBD -	13:20-13:40	INBD -	13:05	0.7	13:40	0.8
			13:30-14:05	OUTBD+	13:30-13:45	OUTBD+	13:30	0.8	14:05	1.0
20:02	4.7	19:25-20:10	OUTBD+	19:45-20:10	OUTBD+	19:25	4.7	20:10	4.7	
		19:55-20:45	INBD -	19:55-20:20	INBD -	19:55	4.7	20:45	4.5	
2015/08/03	02:13	2.5	01:35-02:20	INBD -	01:55-02:20	INBD -	01:35	2.4	02:20	2.5
			02:05-02:55	OUTBD+	02:05-02:30	OUTBD+	02:05	2.4	02:55	2.6
	07:26	4.1	05:50-07:35	OUTBD+	07:00-07:35	OUTBD+	05:50	3.9	07:35	4.1
			07:15-08:10	INBD -	07:15-07:50	INBD -	07:15	4.1	08:10	3.9
	14:16	1.1	13:45-14:20	INBD -	14:00-14:20	INBD -	13:45	1.0	14:20	1.1
			14:10-14:45	OUTBD+	14:10-14:30	OUTBD+	14:10	1.1	14:45	1.3
20:39	4.7	20:00-20:45	OUTBD+	20:20-20:45	OUTBD+	20:00	4.7	20:45	4.7	
		20:30-21:20	INBD -	20:30-20:55	INBD -	20:30	4.7	21:20	4.5	
2015/08/04	03:07	2.2	02:30-03:15	INBD -	02:50-03:15	INBD -	02:30	2.1	03:15	2.2
			03:00-03:55	OUTBD+	03:00-03:25	OUTBD+	03:00	2.2	03:55	2.4
	08:25	3.9	07:15-08:35	OUTBD+	08:00-08:35	OUTBD+	07:15	3.8	08:35	3.9
			08:15-09:15	INBD -	08:15-08:50	INBD -	08:15	3.9	09:15	3.7
	14:58	1.5	14:20-15:05	INBD -	14:40-15:05	INBD -	14:20	1.4	15:05	1.5
			14:50-15:35	OUTBD+	14:50-15:15	OUTBD+	14:50	1.5	15:35	1.7
21:16	4.7	20:35-21:25	OUTBD+	21:00-21:25	OUTBD+	20:35	4.7	21:25	4.7	
		21:10-22:00	INBD -	21:10-21:35	INBD -	21:10	4.7	22:00	4.5	
2015/08/05	04:03	1.9	03:25-04:10	INBD -	03:45-04:10	INBD -	03:25	1.9	04:10	1.9
			03:55-04:55	OUTBD+	03:55-04:20	OUTBD+	03:55	1.9	04:55	2.2
	09:30	3.8	08:20-09:45	OUTBD+	09:00-09:45	OUTBD+	08:20	3.6	09:45	3.7
			09:20-10:35	INBD -	09:20-10:00	INBD -	09:20	3.8	10:35	3.6
	15:44	1.9	15:00-15:55	INBD -	15:25-15:55	INBD -	15:00	1.9	15:55	2.0
			15:35-16:30	OUTBD+	15:35-16:05	OUTBD+	15:35	1.9	16:30	2.2
21:56	4.6	21:05-22:05	OUTBD+	21:35-22:05	OUTBD+	21:05	4.6	22:05	4.6	
		21:45-22:45	INBD -	21:45-22:15	INBD -	21:45	4.6	22:45	4.4	
2015/08/06	04:59	1.7	04:20-05:10	INBD -	04:40-05:10	INBD -	04:20	1.6	05:10	1.7
			04:50-05:50	OUTBD+	04:50-05:20	OUTBD+	04:50	1.6	05:50	1.9
	10:47	3.7	09:30-11:05	OUTBD+	10:10-11:05	OUTBD+	09:30	3.5	11:05	3.7
			10:30-12:20	INBD -	10:30-11:25	INBD -	10:30	3.7	12:20	3.4
	16:38	2.4	15:30-16:50	INBD -	16:10-16:50	INBD -	15:30	2.4	16:50	2.4
			16:25-17:40	OUTBD+	16:25-17:05	OUTBD+	16:25	2.4	17:40	2.7
22:37	4.5	21:30-22:50	OUTBD+	22:10-22:50	OUTBD+	21:30	4.4	22:50	4.5	
		22:25-23:35	INBD -	22:25-23:00	INBD -	22:25	4.5	23:35	4.3	

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 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/08/07	05:58	1.5	05:20-06:05	INBD -	05:40-06:05	INBD -	05:20	1.4	06:05	1.5
			05:50-06:50	OUTBD+	05:50-06:20	OUTBD+	05:50	1.4	06:50	1.7
	12:17	3.7	10:50-12:35	OUTBD+	11:35-12:35	OUTBD+	10:50	3.5	12:35	3.7
			12:00-14:10	INBD -	12:00-13:00	INBD -	12:00	3.7	14:10	3.4
	17:46	2.8	15:55-18:05	INBD -	17:10-18:05	INBD -	15:55	2.9	18:05	2.9
17:30-20:10			OUTBD+	17:30-18:25	OUTBD+	17:30	2.8	20:10	3.5	
23:23	4.3	21:20-23:35	OUTBD+	22:50-23:35	OUTBD+	21:20	4.0	23:35	4.3	
		23:10-00:30	INBD -	23:10-23:55	INBD -	23:10	4.4	00:30	4.1	
2015/08/08	06:57	1.3	06:15-07:05	INBD -	06:40-07:05	INBD -	06:15	1.3	07:05	1.3
			06:50-07:55	OUTBD+	06:50-07:20	OUTBD+	06:50	1.3	07:55	1.6
	13:44	3.9	12:20-14:05	OUTBD+	13:05-14:05	OUTBD+	12:20	3.7	14:05	3.8
			13:25-19:30	INBD -	13:25-14:30	INBD -	13:25	3.8	19:30	3.2
	19:09	3.1	18:25-19:30	INBD -	18:25-19:30	INBD -	18:25	3.1	19:30	3.2
18:50-00:30			OUTBD+	18:50-20:00	OUTBD+	18:50	3.1	00:30	4.2	
00:13	4.2	23:25-00:30	OUTBD+	23:25-00:30	OUTBD+	23:25	4.2	00:30	4.2	
		23:55-01:30	INBD -	23:55-00:50	INBD -	23:55	4.2	01:30	3.9	
2015/08/09	07:57	1.2	07:15-08:05	INBD -	07:40-08:05	INBD -	07:15	1.2	08:05	1.2
			07:50-08:55	OUTBD+	07:50-08:20	OUTBD+	07:50	1.2	08:55	1.4
	14:57	4.0	13:45-15:15	OUTBD+	14:25-15:15	OUTBD+	13:45	3.9	15:15	4.0
			14:40-20:55	INBD -	14:40-15:40	INBD -	14:40	4.0	20:55	3.3
20:32	3.2	19:50-20:55	INBD -	19:50-20:55	INBD -	19:50	3.2	20:55	3.3	
		20:15-01:30	OUTBD+	20:15-21:25	OUTBD+	20:15	3.2	01:30	4.1	
2015/08/10	01:09	4.1	00:10-01:30	OUTBD+	00:10-01:30	OUTBD+	00:10	4.0	01:30	4.1
			00:45-02:35	INBD -	00:45-01:55	INBD -	00:45	4.1	02:35	3.8
	08:56	1.1	08:15-09:05	INBD -	08:35-09:05	INBD -	08:15	1.1	09:05	1.1
			08:50-09:55	OUTBD+	08:50-09:20	OUTBD+	08:50	1.1	09:55	1.4
	15:57	4.2	14:55-16:15	OUTBD+	15:25-16:15	OUTBD+	14:55	4.1	16:15	4.2
			15:45-18:35	INBD -	15:45-16:40	INBD -	15:45	4.2	18:35	3.7
21:38	3.2	20:20-21:55	INBD -	21:05-21:55	INBD -	20:20	3.2	21:55	3.2	
		21:20-02:35	OUTBD+	21:20-22:25	OUTBD+	21:20	3.2	02:35	4.0	
2015/08/11	02:11	4.0	01:00-02:35	OUTBD+	01:00-02:35	OUTBD+	01:00	3.9	02:35	4.0
			01:40-03:40	INBD -	01:40-03:00	INBD -	01:40	4.0	03:40	3.7
	09:51	1.0	09:15-10:00	INBD -	09:35-10:00	INBD -	09:15	1.0	10:00	1.0
			09:45-10:45	OUTBD+	09:45-10:15	OUTBD+	09:45	1.0	10:45	1.3
	16:46	4.3	15:50-17:00	OUTBD+	16:20-17:00	OUTBD+	15:50	4.2	17:00	4.3
16:35-19:05			INBD -	16:35-17:25	INBD -	16:35	4.3	19:05	3.8	
22:29	3.1	21:30-22:45	INBD -	22:00-22:45	INBD -	21:30	3.1	22:45	3.1	
		22:15-03:35	OUTBD+	22:15-23:05	OUTBD+	22:15	3.1	03:35	4.0	
2015/08/12	03:13	4.0	02:00-03:35	OUTBD+	02:00-03:35	OUTBD+	02:00	3.9	03:35	4.0
			02:45-04:30	INBD -	02:45-03:55	INBD -	02:45	4.0	04:30	3.7
	10:40	1.0	10:05-10:50	INBD -	10:25-10:50	INBD -	10:05	0.9	10:50	1.0
			10:35-11:30	OUTBD+	10:35-11:00	OUTBD+	10:35	1.0	11:30	1.2
	17:27	4.4	16:40-17:40	OUTBD+	17:05-17:40	OUTBD+	16:40	4.3	17:40	4.3
17:15-19:35			INBD -	17:15-18:00	INBD -	17:15	4.4	19:35	3.9	
23:13	3.0	22:20-23:25	INBD -	22:50-23:25	INBD -	22:20	3.0	23:25	3.0	
		23:05-04:25	OUTBD+	23:05-23:40	OUTBD+	23:05	3.0	04:25	4.0	
2015/08/13	04:08	4.0	03:00-04:25	OUTBD+	03:00-04:25	OUTBD+	03:00	3.9	04:25	4.0
			03:45-05:15	INBD -	03:45-04:45	INBD -	03:45	4.0	05:15	3.8
	11:23	1.0	10:50-11:30	INBD -	11:05-11:30	INBD -	10:50	0.9	11:30	1.0
			11:15-12:10	OUTBD+	11:15-11:40	OUTBD+	11:15	1.0	12:10	1.3
	18:02	4.4	17:15-18:15	OUTBD+	17:40-18:15	OUTBD+	17:15	4.3	18:15	4.4
17:50-19:35			INBD -	17:50-18:30	INBD -	17:50	4.4	19:35	4.1	
23:53	2.9	23:10-00:05	INBD -	23:30-00:05	INBD -	23:10	2.9	00:05	2.9	
		23:45-05:10	OUTBD+	23:45-00:20	OUTBD+	23:45	2.9	05:10	4.0	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

OPERATIONAL TIME FRAME										
YYYY/MM/DD	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/08/14	04:56	4.0			04:00-05:10	OUTBD+	04:00	4.0	05:10	4.0
			04:35-06:00	INBD -	04:35-05:30	INBD -	04:35	4.0	06:00	3.8
	12:01	1.1	11:25-12:10	INBD -	11:45-12:10	INBD -	11:25	1.0	12:10	1.1
			11:55-12:45	OUTBD+	11:55-12:20	OUTBD+	11:55	1.0	12:45	1.3
	18:34	4.4	17:50-18:45	OUTBD+	18:15-18:45	OUTBD+	17:50	4.3	18:45	4.4
		18:25-19:40	INBD -	18:25-19:00	INBD -	18:25	4.4	19:40	4.2	
	00:32	2.8	23:50-00:40	INBD -	00:10-00:40	INBD -	23:50	2.7	00:40	2.8
2015/08/15			00:25-01:35	OUTBD+	00:25-00:55	OUTBD+	00:25	2.7	01:35	3.0
	05:38	4.0	02:45-05:55	OUTBD+	04:50-05:55	OUTBD+	02:45	3.4	05:55	3.9
			05:20-06:40	INBD -	05:20-06:10	INBD -	05:20	4.0	06:40	3.7
	12:35	1.2	12:00-12:40	INBD -	12:20-12:40	INBD -	12:00	1.1	12:40	1.2
			12:30-13:15	OUTBD+	12:30-12:50	OUTBD+	12:30	1.2	13:15	1.4
	19:03	4.4	18:20-19:15	OUTBD+	18:45-19:15	OUTBD+	18:20	4.3	19:15	4.4
			18:55-20:00	INBD -	18:55-19:25	INBD -	18:55	4.4	20:00	4.2
2015/08/16	01:10	2.6	00:25-01:20	INBD -	00:50-01:20	INBD -	00:25	2.6	01:20	2.6
			01:00-02:10	OUTBD+	01:00-01:30	OUTBD+	01:00	2.6	02:10	2.8
	06:19	3.9	03:45-06:35	OUTBD+	05:40-06:35	OUTBD+	03:45	3.4	06:35	3.9
			06:05-07:20	INBD -	06:05-06:50	INBD -	06:05	3.9	07:20	3.7
	13:07	1.4	12:30-13:15	INBD -	12:50-13:15	INBD -	12:30	1.3	13:15	1.4
		13:00-13:50	OUTBD+	13:00-13:25	OUTBD+	13:00	1.3	13:50	1.6	
	19:30	4.4	18:45-19:40	OUTBD+	19:10-19:40	OUTBD+	18:45	4.3	19:40	4.3
			19:20-20:25	INBD -	19:20-19:55	INBD -	19:20	4.4	20:25	4.2
2015/08/17	01:49	2.5	01:05-02:00	INBD -	01:30-02:00	INBD -	01:05	2.5	02:00	2.5
			01:40-02:50	OUTBD+	01:40-02:10	OUTBD+	01:40	2.5	02:50	2.7
	07:01	3.8	04:55-07:15	OUTBD+	06:25-07:15	OUTBD+	04:55	3.5	07:15	3.8
			06:45-08:05	INBD -	06:45-07:30	INBD -	06:45	3.9	08:05	3.6
	13:37	1.6	12:55-13:45	INBD -	13:20-13:45	INBD -	12:55	1.6	13:45	1.6
		13:30-14:20	OUTBD+	13:30-13:55	OUTBD+	13:30	1.6	14:20	1.8	
	19:54	4.3	19:05-20:05	OUTBD+	19:30-20:05	OUTBD+	19:05	4.3	20:05	4.3
			19:45-20:50	INBD -	19:45-20:20	INBD -	19:45	4.3	20:50	4.2
2015/08/18	02:28	2.3	01:40-02:40	INBD -	02:05-02:40	INBD -	01:40	2.3	02:40	2.4
			02:20-03:30	OUTBD+	02:20-02:50	OUTBD+	02:20	2.3	03:30	2.6
	07:44	3.8	06:00-08:00	OUTBD+	07:10-08:00	OUTBD+	06:00	3.5	08:00	3.7
			07:30-08:55	INBD -	07:30-08:15	INBD -	07:30	3.8	08:55	3.5
	14:06	1.9	13:15-14:15	INBD -	13:45-14:15	INBD -	13:15	1.9	14:15	1.9
		13:55-14:55	OUTBD+	13:55-14:30	OUTBD+	13:55	1.8	14:55	2.1	
	20:19	4.3	19:20-20:30	OUTBD+	19:55-20:30	OUTBD+	19:20	4.2	20:30	4.3
			20:10-21:20	INBD -	20:10-20:45	INBD -	20:10	4.3	21:20	4.1
2015/08/19	03:08	2.2	02:15-03:20	INBD -	02:45-03:20	INBD -	02:15	2.2	03:20	2.2
			03:00-04:20	OUTBD+	03:00-03:35	OUTBD+	03:00	2.2	04:20	2.5
	08:30	3.7	06:55-08:45	OUTBD+	07:55-08:45	OUTBD+	06:55	3.5	08:45	3.6
			08:15-10:10	INBD -	08:15-09:05	INBD -	08:15	3.7	10:10	3.3
	14:36	2.2	13:30-14:45	INBD -	14:10-14:45	INBD -	13:30	2.2	14:45	2.2
		14:25-15:35	OUTBD+	14:25-15:00	OUTBD+	14:25	2.1	15:35	2.4	
	20:45	4.2	19:25-20:55	OUTBD+	20:15-20:55	OUTBD+	19:25	4.0	20:55	4.2
			20:35-21:45	INBD -	20:35-21:10	INBD -	20:35	4.2	21:45	4.1
2015/08/20	03:50	2.0	02:50-04:00	INBD -	03:25-04:00	INBD -	02:50	2.1	04:00	2.1
			03:40-05:10	OUTBD+	03:40-04:20	OUTBD+	03:40	2.0	05:10	2.4
	09:22	3.6	07:40-09:40	OUTBD+	08:45-09:40	OUTBD+	07:40	3.3	09:40	3.6
			09:05-12:10	INBD -	09:05-10:10	INBD -	09:05	3.6	12:10	3.0
	15:09	2.5	13:45-15:25	INBD -	14:35-15:25	INBD -	13:45	2.6	15:25	2.5
		14:55-16:25	OUTBD+	14:55-15:40	OUTBD+	14:55	2.4	16:25	2.7	
	21:14	4.2	18:15-21:25	OUTBD+	20:40-21:25	OUTBD+	18:15	3.4	21:25	4.2
			21:00-22:20	INBD -	21:00-21:45	INBD -	21:00	4.2	22:20	4.0

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/08/21	04:34	1.9	03:30-04:50	INBD -	04:05-04:50	INBD -	03:30	1.9	04:50	2.0
			04:20-05:55	OUTBD+	04:20-05:05	OUTBD+	04:20	1.9	05:55	2.3
	10:25	3.5	08:35-10:55	OUTBD+	09:40-10:55	OUTBD+	08:35	3.3	10:55	3.5
			10:00-16:10	INBD -	10:00-11:50	INBD -	10:00	3.5	16:10	2.8
	15:50	2.8			15:10-16:10	INBD -	15:10	2.8	16:10	2.8
2015/08/21			15:30-22:00	OUTBD+	15:30-16:30	OUTBD+	15:30	2.7	22:00	4.1
	21:46	4.1			20:55-22:00	OUTBD+	20:55	4.0	22:00	4.1
			21:25-23:00	INBD -	21:25-22:20	INBD -	21:25	4.1	23:00	3.9
2015/08/22	05:22	1.8	04:15-05:35	INBD -	04:50-05:35	INBD -	04:15	1.8	05:35	1.8
			05:10-06:45	OUTBD+	05:10-05:55	OUTBD+	05:10	1.8	06:45	2.1
	11:49	3.6	09:35-12:35	OUTBD+	10:45-12:35	OUTBD+	09:35	3.2	12:35	3.5
			11:15-17:10	INBD -	11:15-13:25	INBD -	11:15	3.5	17:10	3.1
	16:45	3.0			15:50-17:10	INBD -	15:50	3.0	17:10	3.1
2015/08/22			16:20-22:45	OUTBD+	16:20-17:45	OUTBD+	16:20	3.0	22:45	4.0
	22:25	4.0			20:30-22:45	OUTBD+	20:30	3.8	22:45	4.0
			22:00-23:45	INBD -	22:00-23:00	INBD -	22:00	4.0	23:45	3.8
2015/08/23	06:15	1.7	05:05-06:30	INBD -	05:45-06:30	INBD -	05:05	1.7	06:30	1.7
			06:00-07:30	OUTBD+	06:00-06:45	OUTBD+	06:00	1.6	07:30	2.0
	13:22	3.7	11:00-13:55	OUTBD+	12:10-13:55	OUTBD+	11:00	3.3	13:55	3.7
			12:45-18:40	INBD -	12:45-14:35	INBD -	12:45	3.7	18:40	3.3
	18:01	3.2			16:50-18:40	INBD -	16:50	3.3	18:40	3.3
2015/08/23			17:25-23:30	OUTBD+	17:25-19:55	OUTBD+	17:25	3.2	23:30	3.9
	23:12	4.0			20:20-23:30	OUTBD+	20:20	3.6	23:30	3.9
			22:45-00:35	INBD -	22:45-23:55	INBD -	22:45	4.0	00:35	3.7
2015/08/24	07:13	1.5	06:10-07:25	INBD -	06:45-07:25	INBD -	06:10	1.5	07:25	1.5
			07:00-08:20	OUTBD+	07:00-07:40	OUTBD+	07:00	1.5	08:20	1.8
	14:33	3.9	12:35-14:55	OUTBD+	13:40-14:55	OUTBD+	12:35	3.6	14:55	3.8
			14:05-20:10	INBD -	14:05-15:25	INBD -	14:05	3.9	20:10	3.4
	19:35	3.3			18:15-20:10	INBD -	18:15	3.3	20:10	3.4
2015/08/24			19:00-00:30	OUTBD+	19:00-21:20	OUTBD+	19:00	3.3	00:30	3.9
	00:09	3.9			22:45-00:30	OUTBD+	22:45	3.8	00:30	3.9
			23:45-01:35	INBD -	23:45-00:50	INBD -	23:45	3.9	01:35	3.7
2015/08/25	08:13	1.3	07:20-08:25	INBD -	07:50-08:25	INBD -	07:20	1.3	08:25	1.3
			08:05-09:15	OUTBD+	08:05-08:40	OUTBD+	08:05	1.3	09:15	1.6
	15:28	4.0	14:05-15:45	OUTBD+	14:50-15:45	OUTBD+	14:05	3.9	15:45	4.0
			15:10-21:15	INBD -	15:10-16:10	INBD -	15:10	4.0	21:15	3.3
2015/08/25	20:51	3.3			19:55-21:15	INBD -	19:55	3.3	21:15	3.3
			20:30-01:30	OUTBD+	20:30-21:45	OUTBD+	20:30	3.3	01:30	4.0
2015/08/26	01:11	4.0			00:15-01:30	OUTBD+	00:15	3.9	01:30	4.0
			00:50-02:35	INBD -	00:50-01:50	INBD -	00:50	4.0	02:35	3.7
	09:13	1.1	08:30-09:20	INBD -	08:50-09:20	INBD -	08:30	1.1	09:20	1.1
			09:05-10:05	OUTBD+	09:05-09:35	OUTBD+	09:05	1.1	10:05	1.4
	16:16	4.2	15:10-16:30	OUTBD+	15:45-16:30	OUTBD+	15:10	4.1	16:30	4.2
2015/08/26			16:00-17:55	INBD -	16:00-16:50	INBD -	16:00	4.2	17:55	3.9
	21:47	3.2	20:00-22:00	INBD -	21:15-22:00	INBD -	20:00	3.3	22:00	3.2
			21:35-02:35	OUTBD+	21:35-22:20	OUTBD+	21:35	3.1	02:35	4.1
2015/08/27	02:18	4.1			01:30-02:35	OUTBD+	01:30	4.0	02:35	4.1
			01:55-03:35	INBD -	01:55-02:55	INBD -	01:55	4.1	03:35	3.8
	10:09	1.0	09:30-10:15	INBD -	09:50-10:15	INBD -	09:30	0.9	10:15	1.0
			10:00-10:50	OUTBD+	10:00-10:25	OUTBD+	10:00	0.9	10:50	1.2
	16:58	4.3	16:10-17:10	OUTBD+	16:35-17:10	OUTBD+	16:10	4.3	17:10	4.3
2015/08/27			16:45-18:10	INBD -	16:45-17:25	INBD -	16:45	4.3	18:10	4.1
	22:37	3.0	21:40-22:45	INBD -	22:15-22:45	INBD -	21:40	3.0	22:45	3.0
			22:25-23:35	OUTBD+	22:25-23:00	OUTBD+	22:25	2.9	23:35	3.2

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/08/28	03:29	4.2	01:30-03:45	OUTBD+	02:45-03:45	OUTBD+	01:30	3.9	03:45	4.2
			03:10-04:35	INBD -	03:10-04:05	INBD -	03:10	4.2	04:35	3.9
	10:59	0.9	10:25-11:05	INBD -	10:45-11:05	INBD -	10:25	0.8	11:05	0.9
			10:55-11:35	OUTBD+	10:55-11:15	OUTBD+	10:55	0.8	11:35	1.1
	17:36	4.4	16:55-17:45	OUTBD+	17:15-17:45	OUTBD+	16:55	4.4	17:45	4.4
			17:25-18:30	INBD -	17:25-18:00	INBD -	17:25	4.4	18:30	4.2
	23:25	2.7	22:45-23:35	INBD -	23:05-23:35	INBD -	22:45	2.7	23:35	2.7
23:20-00:10			OUTBD+	23:20-23:45	OUTBD+	23:20	2.7	00:10	2.9	
2015/08/29	04:37	4.3	02:45-04:50	OUTBD+	04:00-04:50	OUTBD+	02:45	4.0	04:50	4.2
			04:20-05:30	INBD -	04:20-05:05	INBD -	04:20	4.3	05:30	4.0
	11:46	0.9	11:15-11:50	INBD -	11:35-11:50	INBD -	11:15	0.8	11:50	0.9
			11:40-12:15	OUTBD+	11:40-12:00	OUTBD+	11:40	0.8	12:15	1.1
	18:12	4.5	17:35-18:20	OUTBD+	17:55-18:20	OUTBD+	17:35	4.5	18:20	4.5
			18:05-18:55	INBD -	18:05-18:30	INBD -	18:05	4.5	18:55	4.3
	00:14	2.4	23:40-00:20	INBD -	00:00-00:20	INBD -	23:40	2.4	00:20	2.5
2015/08/30	05:37	4.3	00:10-00:50	OUTBD+	00:10-00:30	OUTBD+	00:10	2.4	00:50	2.6
			04:15-05:45	OUTBD+	05:10-05:45	OUTBD+	04:15	4.2	05:45	4.3
			05:25-06:20	INBD -	05:25-06:00	INBD -	05:25	4.3	06:20	4.1
	12:28	1.0	12:00-12:35	INBD -	12:15-12:35	INBD -	12:00	0.9	12:35	1.0
			12:25-13:00	OUTBD+	12:25-12:40	OUTBD+	12:25	1.0	13:00	1.2
	18:48	4.6	18:15-18:55	OUTBD+	18:30-18:55	OUTBD+	18:15	4.6	18:55	4.6
			18:40-19:25	INBD -	18:40-19:05	INBD -	18:40	4.6	19:25	4.4
2015/08/31	01:03	2.1	00:30-01:10	INBD -	00:50-01:10	INBD -	00:30	2.1	01:10	2.2
			00:55-01:35	OUTBD+	00:55-01:15	OUTBD+	00:55	2.1	01:35	2.3
	06:33	4.3	05:35-06:40	OUTBD+	06:10-06:40	OUTBD+	05:35	4.3	06:40	4.3
			06:25-07:15	INBD -	06:25-06:55	INBD -	06:25	4.3	07:15	4.1
	13:09	1.2	12:40-13:15	INBD -	12:55-13:15	INBD -	12:40	1.1	13:15	1.3
			13:05-13:40	OUTBD+	13:05-13:20	OUTBD+	13:05	1.2	13:40	1.4
	19:23	4.6	18:50-19:30	OUTBD+	19:10-19:30	OUTBD+	18:50	4.7	19:30	4.6
19:15-20:00			INBD -	19:15-19:40	INBD -	19:15	4.7	20:00	4.5	

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS September 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/09/01	01:52	1.9	01:25-02:00	INBD -	01:40-02:00	INBD -	01:25	1.8	02:00	1.9
			01:45-02:25	OUTBD+	01:45-02:05	OUTBD+	01:45	1.8	02:25	2.0
	07:29	4.2	06:35-07:35	OUTBD+	07:05-07:35	OUTBD+	06:35	4.2	07:35	4.2
			07:20-08:15	INBD -	07:20-07:50	INBD -	07:20	4.2	08:15	4.0
	13:51	1.6	13:20-13:55	INBD -	13:35-13:55	INBD -	13:20	1.5	13:55	1.6
			13:45-14:25	OUTBD+	13:45-14:05	OUTBD+	13:45	1.5	14:25	1.8
19:59	4.6	19:20-20:05	OUTBD+	19:45-20:05	OUTBD+	19:20	4.7	20:05	4.6	
		19:50-20:35	INBD -	19:50-20:15	INBD -	19:50	4.7	20:35	4.5	
2015/09/02	02:43	1.6	02:15-02:50	INBD -	02:30-02:50	INBD -	02:15	1.5	02:50	1.6
			02:35-03:20	OUTBD+	02:35-03:00	OUTBD+	02:35	1.6	03:20	1.8
	08:26	4.1	07:35-08:35	OUTBD+	08:05-08:35	OUTBD+	07:35	4.1	08:35	4.1
			08:15-09:20	INBD -	08:15-08:50	INBD -	08:15	4.1	09:20	3.9
	14:34	2.0	13:55-14:40	INBD -	14:15-14:40	INBD -	13:55	1.9	14:40	2.0
			14:25-15:15	OUTBD+	14:25-14:50	OUTBD+	14:25	1.9	15:15	2.2
20:37	4.6	19:50-20:45	OUTBD+	20:20-20:45	OUTBD+	19:50	4.6	20:45	4.6	
		20:30-21:20	INBD -	20:30-20:55	INBD -	20:30	4.6	21:20	4.4	
2015/09/03	03:34	1.4	03:00-03:40	INBD -	03:20-03:40	INBD -	03:00	1.4	03:40	1.5
			03:30-04:15	OUTBD+	03:30-03:50	OUTBD+	03:30	1.4	04:15	1.7
	09:29	4.0	08:30-09:40	OUTBD+	09:00-09:40	OUTBD+	08:30	3.9	09:40	4.0
			09:15-10:45	INBD -	09:15-10:00	INBD -	09:15	4.0	10:45	3.8
	15:22	2.4	14:30-15:30	INBD -	15:00-15:30	INBD -	14:30	2.4	15:30	2.4
			15:15-16:15	OUTBD+	15:15-15:45	OUTBD+	15:15	2.4	16:15	2.6
21:16	4.4	20:20-21:25	OUTBD+	20:50-21:25	OUTBD+	20:20	4.4	21:25	4.4	
		21:05-22:05	INBD -	21:05-21:40	INBD -	21:05	4.4	22:05	4.2	
2015/09/04	04:28	1.3	03:50-04:35	INBD -	04:10-04:35	INBD -	03:50	1.3	04:35	1.4
			04:20-05:15	OUTBD+	04:20-04:45	OUTBD+	04:20	1.3	05:15	1.6
	10:43	4.0	09:30-11:00	OUTBD+	10:10-11:00	OUTBD+	09:30	3.8	11:00	4.0
			10:25-12:15	INBD -	10:25-11:20	INBD -	10:25	4.0	12:15	3.7
	16:22	2.7	15:05-16:35	INBD -	15:50-16:35	INBD -	15:05	2.8	16:35	2.8
			16:05-18:10	OUTBD+	16:05-16:55	OUTBD+	16:05	2.7	18:10	3.2
21:59	4.2	20:15-22:10	OUTBD+	21:25-22:10	OUTBD+	20:15	4.0	22:10	4.2	
		21:45-23:05	INBD -	21:45-22:30	INBD -	21:45	4.3	23:05	4.0	
2015/09/05	05:24	1.3	04:45-05:35	INBD -	05:05-05:35	INBD -	04:45	1.3	05:35	1.3
			05:15-06:15	OUTBD+	05:15-05:45	OUTBD+	05:15	1.3	06:15	1.6
	12:06	4.0	10:40-12:25	OUTBD+	11:25-12:25	OUTBD+	10:40	3.8	12:25	4.0
			11:50-13:55	INBD -	11:50-12:45	INBD -	11:50	4.0	13:55	3.7
	17:41	3.0	15:25-18:05	INBD -	16:55-18:05	INBD -	15:25	3.3	18:05	3.1
			17:20-23:05	OUTBD+	17:20-18:35	OUTBD+	17:20	3.0	23:05	4.0
22:49	4.0			22:05-23:05	OUTBD+	22:05	4.0	23:05	4.0	
				22:30-00:15	INBD -	22:30-23:30	INBD -	22:30	4.0	00:15
2015/09/06	06:23	1.3	05:40-06:35	INBD -	06:05-06:35	INBD -	05:40	1.3	06:35	1.4
			06:15-07:20	OUTBD+	06:15-06:45	OUTBD+	06:15	1.3	07:20	1.6
	13:22	4.1	12:05-13:40	OUTBD+	12:45-13:40	OUTBD+	12:05	3.9	13:40	4.1
			13:05-19:40	INBD -	13:05-14:00	INBD -	13:05	4.1	19:40	3.2
	19:14	3.1			18:25-19:40	INBD -	18:25	3.1	19:40	3.2
					18:50-00:15	OUTBD+	18:50-20:20	OUTBD+	18:50	3.1
23:49	3.9			22:50-00:15	OUTBD+	22:50	3.8	00:15	3.8	
				23:25-01:30	INBD -	23:25-00:40	INBD -	23:25	3.9	01:30

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
 BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/09/07	07:25	1.4	06:40-07:35	INBD -	07:05-07:35	INBD -	06:40	1.3	07:35	1.4
			07:15-08:30	OUTBD+	07:15-07:50	OUTBD+	07:15	1.3	08:30	1.6
	14:29	4.2	13:20-14:45	OUTBD+	14:00-14:45	OUTBD+	13:20	4.0	14:45	4.2
			14:15-17:20	INBD -	14:15-15:10	INBD -	14:15	4.2	17:20	3.6
	20:32	3.1	19:00-20:55	INBD -	19:50-20:55	INBD -	19:00	3.2	20:55	3.1
		20:10-01:30	OUTBD+	20:10-21:30	OUTBD+	20:10	3.1	01:30	3.7	
	01:02	3.7			23:45-01:30	OUTBD+	23:45	3.7	01:30	3.7
2015/09/08			00:30-02:45	INBD -	00:30-01:55	INBD -	00:30	3.7	02:45	3.4
	08:25	1.4	07:35-08:35	INBD -	08:05-08:35	INBD -	07:35	1.4	08:35	1.4
			08:15-09:30	OUTBD+	08:15-08:50	OUTBD+	08:15	1.3	09:30	1.6
	15:25	4.2	14:25-15:40	OUTBD+	14:55-15:40	OUTBD+	14:25	4.1	15:40	4.2
			15:10-17:45	INBD -	15:10-16:00	INBD -	15:10	4.2	17:45	3.8
	21:29	2.9	20:20-21:45	INBD -	20:55-21:45	INBD -	20:20	3.0	21:45	3.0
			21:15-02:45	OUTBD+	21:15-22:15	OUTBD+	21:15	2.9	02:45	3.7
2015/09/09	02:19	3.7			01:00-02:45	OUTBD+	01:00	3.7	02:45	3.7
			01:45-03:45	INBD -	01:45-03:05	INBD -	01:45	3.7	03:45	3.5
	09:22	1.4	08:35-09:30	INBD -	09:00-09:30	INBD -	08:35	1.4	09:30	1.4
			09:10-10:25	OUTBD+	09:10-09:45	OUTBD+	09:10	1.3	10:25	1.6
	16:11	4.3	15:20-16:25	OUTBD+	15:45-16:25	OUTBD+	15:20	4.2	16:25	4.3
			16:00-18:05	INBD -	16:00-16:40	INBD -	16:00	4.3	18:05	3.9
	22:15	2.8	21:20-22:25	INBD -	21:50-22:25	INBD -	21:20	2.8	22:25	2.8
			22:05-03:45	OUTBD+	22:05-22:45	OUTBD+	22:05	2.8	03:45	3.8
2015/09/10	03:25	3.8			02:25-03:45	OUTBD+	02:25	3.8	03:45	3.8
			03:00-04:35	INBD -	03:00-04:00	INBD -	03:00	3.8	04:35	3.5
	10:11	1.4	09:30-10:20	INBD -	09:50-10:20	INBD -	09:30	1.4	10:20	1.4
			10:00-11:05	OUTBD+	10:00-10:35	OUTBD+	10:00	1.4	11:05	1.6
	16:49	4.3	16:00-17:00	OUTBD+	16:25-17:00	OUTBD+	16:00	4.2	17:00	4.3
			16:40-18:10	INBD -	16:40-17:15	INBD -	16:40	4.3	18:10	4.0
	22:54	2.6	22:10-23:05	INBD -	22:35-23:05	INBD -	22:10	2.6	23:05	2.6
			22:45-00:15	OUTBD+	22:45-23:20	OUTBD+	22:45	2.6	00:15	2.9
2015/09/11	04:18	3.9	01:15-04:35	OUTBD+	03:35-04:35	OUTBD+	01:15	3.3	04:35	3.8
			04:00-05:20	INBD -	04:00-04:50	INBD -	04:00	3.9	05:20	3.6
	10:54	1.4	10:15-11:05	INBD -	10:35-11:05	INBD -	10:15	1.4	11:05	1.5
			10:45-11:45	OUTBD+	10:45-11:15	OUTBD+	10:45	1.4	11:45	1.7
	17:22	4.3	16:35-17:30	OUTBD+	17:00-17:30	OUTBD+	16:35	4.2	17:30	4.3
			17:15-18:25	INBD -	17:15-17:45	INBD -	17:15	4.3	18:25	4.1
	23:31	2.5	22:50-23:40	INBD -	23:10-23:40	INBD -	22:50	2.4	23:40	2.5
			23:25-00:30	OUTBD+	23:25-23:50	OUTBD+	23:25	2.4	00:30	2.7
2015/09/12	05:03	3.9	02:45-05:15	OUTBD+	04:25-05:15	OUTBD+	02:45	3.5	05:15	3.9
			04:50-06:00	INBD -	04:50-05:30	INBD -	04:50	3.9	06:00	3.7
	11:32	1.5	10:50-11:40	INBD -	11:15-11:40	INBD -	10:50	1.5	11:40	1.6
			11:25-12:20	OUTBD+	11:25-11:50	OUTBD+	11:25	1.5	12:20	1.8
	17:52	4.3	17:05-18:00	OUTBD+	17:30-18:00	OUTBD+	17:05	4.2	18:00	4.3
			17:40-18:45	INBD -	17:40-18:15	INBD -	17:40	4.3	18:45	4.1
	00:07	2.3	23:30-00:15	INBD -	23:50-00:15	INBD -	23:30	2.3	00:15	2.3
2015/09/13			00:00-00:55	OUTBD+	00:00-00:25	OUTBD+	00:00	2.3	00:55	2.5
	05:43	4.0	04:10-05:55	OUTBD+	05:10-05:55	OUTBD+	04:10	3.8	05:55	3.9
			05:30-06:40	INBD -	05:30-06:10	INBD -	05:30	4.0	06:40	3.8
	12:06	1.7	11:25-12:15	INBD -	11:50-12:15	INBD -	11:25	1.6	12:15	1.7
			12:00-12:50	OUTBD+	12:00-12:25	OUTBD+	12:00	1.7	12:50	1.9
	18:18	4.2	17:30-18:25	OUTBD+	17:55-18:25	OUTBD+	17:30	4.2	18:25	4.2
			18:10-19:10	INBD -	18:10-18:40	INBD -	18:10	4.3	19:10	4.1

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/09/14	00:42	2.2	00:05-00:50	INBD -	00:25-00:50	INBD -	00:05	2.1	00:50	2.2
			00:35-01:25	OUTBD+	00:35-01:00	OUTBD+	00:35	2.1	01:25	2.3
	06:21	4.0	05:05-06:35	OUTBD+	05:50-06:35	OUTBD+	05:05	3.9	06:35	4.0
			06:10-07:20	INBD -	06:10-06:50	INBD -	06:10	4.0	07:20	3.8
	12:38	1.8	11:55-12:45	INBD -	12:20-12:45	INBD -	11:55	1.8	12:45	1.9
			12:30-13:25	OUTBD+	12:30-12:55	OUTBD+	12:30	1.8	13:25	2.1
18:41	4.2	17:50-18:50	OUTBD+	18:20-18:50	OUTBD+	17:50	4.2	18:50	4.2	
		18:30-19:30	INBD -	18:30-19:05	INBD -	18:30	4.2	19:30	4.1	
2015/09/15	01:17	2.0	00:40-01:25	INBD -	01:00-01:25	INBD -	00:40	2.0	01:25	2.0
			01:10-02:00	OUTBD+	01:10-01:35	OUTBD+	01:10	2.0	02:00	2.2
	06:59	4.0	05:50-07:10	OUTBD+	06:30-07:10	OUTBD+	05:50	3.9	07:10	4.0
			06:45-08:05	INBD -	06:45-07:30	INBD -	06:45	4.0	08:05	3.8
	13:09	2.1	12:20-13:15	INBD -	12:50-13:15	INBD -	12:20	2.0	13:15	2.1
			13:00-13:55	OUTBD+	13:00-13:30	OUTBD+	13:00	2.0	13:55	2.2
19:04	4.2	18:05-19:15	OUTBD+	18:40-19:15	OUTBD+	18:05	4.1	19:15	4.2	
		18:55-19:55	INBD -	18:55-19:25	INBD -	18:55	4.2	19:55	4.0	
2015/09/16	01:52	1.9	01:10-02:00	INBD -	01:35-02:00	INBD -	01:10	1.8	02:00	1.9
			01:45-02:35	OUTBD+	01:45-02:10	OUTBD+	01:45	1.9	02:35	2.1
	07:39	4.0	06:30-07:55	OUTBD+	07:10-07:55	OUTBD+	06:30	3.9	07:55	4.0
			07:25-08:55	INBD -	07:25-08:10	INBD -	07:25	4.0	08:55	3.7
	13:39	2.3	12:45-13:50	INBD -	13:15-13:50	INBD -	12:45	2.3	13:50	2.3
			13:30-14:30	OUTBD+	13:30-14:00	OUTBD+	13:30	2.3	14:30	2.5
19:29	4.1	17:50-19:40	OUTBD+	19:00-19:40	OUTBD+	17:50	3.9	19:40	4.1	
		19:15-20:20	INBD -	19:15-19:50	INBD -	19:15	4.2	20:20	4.0	
2015/09/17	02:28	1.8	01:45-02:35	INBD -	02:10-02:35	INBD -	01:45	1.7	02:35	1.8
			02:20-03:15	OUTBD+	02:20-02:50	OUTBD+	02:20	1.7	03:15	2.0
	08:22	4.0	07:10-08:35	OUTBD+	07:50-08:35	OUTBD+	07:10	3.8	08:35	3.9
			08:10-10:05	INBD -	08:10-08:55	INBD -	08:10	4.0	10:05	3.6
	14:11	2.5	13:10-14:25	INBD -	13:45-14:25	INBD -	13:10	2.6	14:25	2.5
			14:00-15:15	OUTBD+	14:00-14:35	OUTBD+	14:00	2.5	15:15	2.7
19:54	4.1	16:55-20:05	OUTBD+	19:20-20:05	OUTBD+	16:55	3.4	20:05	4.1	
		19:40-20:50	INBD -	19:40-20:20	INBD -	19:40	4.1	20:50	3.9	
2015/09/18	03:05	1.7	02:15-03:15	INBD -	02:45-03:15	INBD -	02:15	1.7	03:15	1.7
			02:55-03:55	OUTBD+	02:55-03:25	OUTBD+	02:55	1.7	03:55	1.9
	09:10	3.9	07:55-09:30	OUTBD+	08:35-09:30	OUTBD+	07:55	3.8	09:30	3.9
			08:55-11:35	INBD -	08:55-09:55	INBD -	08:55	3.9	11:35	3.4
	14:48	2.8	13:30-15:00	INBD -	14:15-15:00	INBD -	13:30	2.9	15:00	2.8
			14:35-16:15	OUTBD+	14:35-15:20	OUTBD+	14:35	2.7	16:15	3.1
20:22	4.0	17:00-20:35	OUTBD+	19:15-20:35	OUTBD+	17:00	3.3	20:35	4.0	
		20:00-21:25	INBD -	20:00-20:50	INBD -	20:00	4.0	21:25	3.8	
2015/09/19	03:44	1.6	02:50-03:55	INBD -	03:20-03:55	INBD -	02:50	1.6	03:55	1.7
			03:35-04:40	OUTBD+	03:35-04:10	OUTBD+	03:35	1.6	04:40	1.9
	10:07	3.9	08:40-10:30	OUTBD+	09:25-10:30	OUTBD+	08:40	3.7	10:30	3.9
			09:45-15:50	INBD -	09:45-11:10	INBD -	09:45	3.9	15:50	3.0
	15:34	3.0	15:15-21:10	OUTBD+	15:15-16:15	OUTBD+	15:15	3.0	21:10	3.9
			18:50-21:10	OUTBD+	18:50	3.6	21:10	3.9		
20:52	3.9	20:20-22:05	INBD -	20:20-21:30	INBD -	20:20	3.9	22:05	3.7	
2015/09/20	04:29	1.6	03:25-04:40	INBD -	04:00-04:40	INBD -	03:25	1.6	04:40	1.6
			04:15-05:25	OUTBD+	04:15-04:55	OUTBD+	04:15	1.6	05:25	1.8
	11:16	3.9	09:35-11:50	OUTBD+	10:25-11:50	OUTBD+	09:35	3.7	11:50	3.9
			10:50-17:00	INBD -	10:50-12:30	INBD -	10:50	3.9	17:00	3.2
	16:34	3.1	16:10-21:55	OUTBD+	16:10-17:45	OUTBD+	16:10	3.1	21:55	3.8
			19:00-21:55	OUTBD+	19:00	3.5	21:55	3.8		
21:33	3.8	20:35-23:00	INBD -	20:35-22:20	INBD -	20:35	3.7	23:00	3.6	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/09/21	05:22	1.6	04:15-05:35	INBD -	04:55-05:35	INBD -	04:15	1.6	05:35	1.6
			05:10-06:20	OUTBD+	05:10-05:50	OUTBD+	05:10	1.5	06:20	1.8
	12:34	4.0	10:45-13:05	OUTBD+	11:40-13:05	OUTBD+	10:45	3.7	13:05	3.9
			12:05-18:40	INBD -	12:05-13:40	INBD -	12:05	4.0	18:40	3.3
	17:59	3.2			16:45-18:40	INBD -	16:45	3.3	18:40	3.3
	22:31	3.7	17:25-22:55	OUTBD+	17:25-22:55	OUTBD+	17:25	3.2	22:55	3.7
		21:45-00:00	INBD -	21:45-23:15	INBD -	21:45	3.7	00:00	3.5	
2015/09/22	06:23	1.5	05:15-06:35	INBD -	05:55-06:35	INBD -	05:15	1.5	06:35	1.5
			06:10-07:25	OUTBD+	06:10-06:50	OUTBD+	06:10	1.5	07:25	1.8
	13:44	4.1	12:05-14:05	OUTBD+	13:00-14:05	OUTBD+	12:05	3.9	14:05	4.1
			13:20-20:05	INBD -	13:20-14:35	INBD -	13:20	4.1	20:05	3.2
	19:31	3.2			18:25-20:05	INBD -	18:25	3.2	20:05	3.2
			19:00-00:05	OUTBD+	19:00-21:20	OUTBD+	19:00	3.2	00:05	3.7
		23:15-01:15	INBD -	23:15-00:25	INBD -	23:15	3.7	01:15	3.4	
2015/09/23	07:29	1.5	06:30-07:40	INBD -	07:05-07:40	INBD -	06:30	1.5	07:40	1.5
			07:20-08:25	OUTBD+	07:20-07:55	OUTBD+	07:20	1.4	08:25	1.7
	14:41	4.2	13:25-15:00	OUTBD+	14:05-15:00	OUTBD+	13:25	4.1	15:00	4.2
			14:25-16:30	INBD -	14:25-15:20	INBD -	14:25	4.2	16:30	3.8
	20:37	3.0	18:20-20:55	INBD -	19:55-20:55	INBD -	18:20	3.3	20:55	3.0
		20:20-01:20	OUTBD+	20:20-21:20	OUTBD+	20:20	3.0	01:20	3.7	
2015/09/24	00:59	3.7			00:05-01:20	OUTBD+	00:05	3.7	01:20	3.7
			00:40-02:35	INBD -	00:40-01:45	INBD -	00:40	3.7	02:35	3.5
	08:36	1.4	07:45-08:45	INBD -	08:15-08:45	INBD -	07:45	1.3	08:45	1.4
			08:25-09:30	OUTBD+	08:25-09:00	OUTBD+	08:25	1.3	09:30	1.6
	15:30	4.3	14:30-15:45	OUTBD+	15:00-15:45	OUTBD+	14:30	4.2	15:45	4.3
			15:15-16:45	INBD -	15:15-16:00	INBD -	15:15	4.3	16:45	4.0
		20:30-21:40	INBD -	21:05-21:40	INBD -	20:30	2.8	21:40	2.8	
		21:20-22:45	OUTBD+	21:20-22:00	OUTBD+	21:20	2.7	22:45	3.0	
2015/09/25	02:21	3.9	00:20-02:40	OUTBD+	01:35-02:40	OUTBD+	00:20	3.6	02:40	3.9
			02:00-03:40	INBD -	02:00-03:00	INBD -	02:00	3.9	03:40	3.6
	09:37	1.3	08:55-09:45	INBD -	09:20-09:45	INBD -	08:55	1.3	09:45	1.3
			09:30-10:20	OUTBD+	09:30-09:55	OUTBD+	09:30	1.3	10:20	1.6
	16:12	4.4	15:25-16:20	OUTBD+	15:50-16:20	OUTBD+	15:25	4.4	16:20	4.4
			16:00-17:05	INBD -	16:00-16:35	INBD -	16:00	4.4	17:05	4.2
		21:35-22:30	INBD -	22:00-22:30	INBD -	21:35	2.4	22:30	2.5	
		22:10-23:05	OUTBD+	22:10-22:40	OUTBD+	22:10	2.4	23:05	2.6	
2015/09/26	03:39	4.1	01:55-03:55	OUTBD+	03:00-03:55	OUTBD+	01:55	3.8	03:55	4.0
			03:25-04:40	INBD -	03:25-04:10	INBD -	03:25	4.1	04:40	3.8
	10:30	1.3	09:55-10:35	INBD -	10:15-10:35	INBD -	09:55	1.3	10:35	1.3
			10:25-11:10	OUTBD+	10:25-10:45	OUTBD+	10:25	1.3	11:10	1.6
	16:51	4.5	16:10-17:00	OUTBD+	16:30-17:00	OUTBD+	16:10	4.5	17:00	4.4
			16:45-17:35	INBD -	16:45-17:10	INBD -	16:45	4.5	17:35	4.3
		22:35-23:15	INBD -	22:55-23:15	INBD -	22:35	2.1	23:15	2.1	
		23:00-23:45	OUTBD+	23:00-23:25	OUTBD+	23:00	2.1	23:45	2.3	
2015/09/27	04:45	4.2	03:35-04:55	OUTBD+	04:20-04:55	OUTBD+	03:35	4.1	04:55	4.2
			04:35-05:35	INBD -	04:35-05:05	INBD -	04:35	4.2	05:35	4.0
	11:18	1.4	10:45-11:25	INBD -	11:05-11:25	INBD -	10:45	1.3	11:25	1.5
			11:10-11:50	OUTBD+	11:10-11:30	OUTBD+	11:10	1.4	11:50	1.6
	17:28	4.5	16:50-17:35	OUTBD+	17:10-17:35	OUTBD+	16:50	4.6	17:35	4.5
			17:20-18:05	INBD -	17:20-17:45	INBD -	17:20	4.6	18:05	4.4
		23:25-00:00	INBD -	23:45-00:00	INBD -	23:25	1.7	00:00	1.8	
		23:50-00:25	OUTBD+	23:50-00:10	OUTBD+	23:50	1.7	00:25	1.9	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/09/28	05:42	4.3	04:50-05:50	OUTBD+	05:20-05:50	OUTBD+	04:50	4.3	05:50	4.3
			05:35-06:25	INBD -	05:35-06:00	INBD -			05:35	4.4
	12:02	1.6	11:30-12:05	INBD -	11:50-12:05	INBD -	11:30	1.5	12:05	1.6
			11:55-12:35	OUTBD+	11:55-12:15	OUTBD+			11:55	1.6
	18:04	4.6	17:25-18:10	OUTBD+	17:50-18:10	OUTBD+	17:25	4.6	18:10	4.6
17:55-18:40			INBD -	17:55-18:20	INBD -	17:55			4.6	18:40
2015/09/29	00:43	1.5	00:15-00:50	INBD -	00:30-00:50	INBD -	00:15	1.4	00:50	1.5
			00:40-01:15	OUTBD+	00:40-00:55	OUTBD+			00:40	1.4
	06:36	4.4	05:50-06:45	OUTBD+	06:15-06:45	OUTBD+	05:50	4.4	06:45	4.4
			06:30-07:20	INBD -	06:30-06:55	INBD -			06:30	4.4
	12:44	1.9	12:15-12:50	INBD -	12:30-12:50	INBD -	12:15	1.8	12:50	1.9
			12:40-13:15	OUTBD+	12:40-13:00	OUTBD+			12:40	1.8
	18:40	4.6	18:00-18:45	OUTBD+	18:25-18:45	OUTBD+	18:00	4.6	18:45	4.6
18:35-19:15			INBD -	18:35-18:55	INBD -	18:35			4.6	19:15
2015/09/30	01:30	1.2	01:05-01:35	INBD -	01:20-01:35	INBD -	01:05	1.1	01:35	1.2
			01:25-02:00	OUTBD+	01:25-01:45	OUTBD+			01:25	1.2
	07:29	4.4	06:45-07:40	OUTBD+	07:10-07:40	OUTBD+	06:45	4.4	07:40	4.4
			07:20-08:20	INBD -	07:20-07:50	INBD -			07:20	4.4
	13:27	2.2	12:50-13:35	INBD -	13:10-13:35	INBD -	12:50	2.1	13:35	2.2
			13:20-14:05	OUTBD+	13:20-13:45	OUTBD+			13:20	2.1
	19:17	4.5	18:30-19:25	OUTBD+	19:00-19:25	OUTBD+	18:30	4.5	19:25	4.5
19:10-19:55			INBD -	19:10-19:35	INBD -	19:10			4.5	19:55

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS October 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/10/01	02:18	1.1	01:50-02:25	INBD -	02:05-02:25	INBD -	01:50	1.0	02:25	1.1
			02:15-02:50	OUTBD+	02:15-02:30	OUTBD+	02:15	1.1	02:50	1.3
	08:24	4.4	07:35-08:35	OUTBD+	08:00-08:35	OUTBD+	07:35	4.3	08:35	4.4
			08:15-09:25	INBD -	08:15-08:50	INBD -	08:15	4.4	09:25	4.2
	14:14	2.5	13:30-14:20	INBD -	13:55-14:20	INBD -	13:30	2.5	14:20	2.5
			14:05-15:00	OUTBD+	14:05-14:35	OUTBD+	14:05	2.5	15:00	2.7
19:55	4.4	18:55-20:05	OUTBD+	19:35-20:05	OUTBD+	18:55	4.3	20:05	4.4	
		19:45-20:40	INBD -	19:45-20:15	INBD -	19:45	4.4	20:40	4.2	
2015/10/02	03:06	1.1	02:35-03:10	INBD -	02:50-03:10	INBD -	02:35	1.0	03:10	1.1
			03:00-03:45	OUTBD+	03:00-03:20	OUTBD+	03:00	1.0	03:45	1.3
	09:24	4.4	08:25-09:40	OUTBD+	08:55-09:40	OUTBD+	08:25	4.3	09:40	4.3
			09:10-10:40	INBD -	09:10-09:55	INBD -	09:10	4.4	10:40	4.1
	15:07	2.8	14:10-15:20	INBD -	14:40-15:20	INBD -	14:10	2.8	15:20	2.8
			14:55-16:25	OUTBD+	14:55-15:35	OUTBD+	14:55	2.7	16:25	3.1
20:36	4.2	17:40-20:50	OUTBD+	20:05-20:50	OUTBD+	17:40	3.5	20:50	4.1	
		20:25-21:30	INBD -	20:25-21:00	INBD -	20:25	4.2	21:30	3.9	
2015/10/03	03:56	1.1	03:20-04:05	INBD -	03:40-04:05	INBD -	03:20	1.0	04:05	1.2
			03:50-04:40	OUTBD+	03:50-04:15	OUTBD+	03:50	1.1	04:40	1.4
	10:31	4.3	09:20-10:45	OUTBD+	10:00-10:45	OUTBD+	09:20	4.2	10:45	4.3
			10:15-11:55	INBD -	10:15-11:05	INBD -	10:15	4.3	11:55	4.1
	16:15	3.0	14:50-16:35	INBD -	15:40-16:35	INBD -	14:50	3.1	16:35	3.0
			16:00-21:35	OUTBD+	16:00-17:00	OUTBD+	16:00	3.0	21:35	3.9
21:21	3.9			20:40-21:35	OUTBD+	20:40	3.9	21:35	3.9	
		21:05-22:35	INBD -	21:05-21:55	INBD -	21:05	3.9	22:35	3.7	
2015/10/04	04:48	1.3	04:05-04:55	INBD -	04:30-04:55	INBD -	04:05	1.2	04:55	1.3
			04:40-05:40	OUTBD+	04:40-05:10	OUTBD+	04:40	1.2	05:40	1.6
	11:41	4.3	10:25-11:55	OUTBD+	11:05-11:55	OUTBD+	10:25	4.2	11:55	4.3
			11:25-13:15	INBD -	11:25-12:15	INBD -	11:25	4.3	13:15	4.0
	17:45	3.0	15:35-18:15	INBD -	16:55-18:15	INBD -	15:35	3.3	18:15	3.1
			17:20-22:40	OUTBD+	17:20-19:05	OUTBD+	17:20	3.0	22:40	3.6
22:15	3.7			21:15-22:40	OUTBD+	21:15	3.6	22:40	3.6	
		21:50-00:00	INBD -	21:50-23:05	INBD -	21:50	3.7	00:00	3.3	
2015/10/05	05:44	1.4	04:55-05:55	INBD -	05:20-05:55	INBD -	04:55	1.4	05:55	1.5
			05:35-06:45	OUTBD+	05:35-06:10	OUTBD+	05:35	1.4	06:45	1.7
	12:47	4.3	11:35-13:00	OUTBD+	12:15-13:00	OUTBD+	11:35	4.2	13:00	4.3
			12:30-14:40	INBD -	12:30-13:20	INBD -	12:30	4.3	14:40	4.0
	19:14	3.0	17:25-19:45	INBD -	18:25-19:45	INBD -	17:25	3.1	19:45	3.0
			18:50-00:00	OUTBD+	18:50-20:35	OUTBD+	18:50	2.9	00:00	3.5
23:27	3.5			22:05-00:00	OUTBD+	22:05	3.4	00:00	3.5	
		22:55-01:30	INBD -	22:55-00:30	INBD -	22:55	3.5	01:30	3.1	
2015/10/06	06:43	1.6	05:45-06:55	INBD -	06:15-06:55	INBD -	05:45	1.6	06:55	1.6
			06:30-07:50	OUTBD+	06:30-07:10	OUTBD+	06:30	1.6	07:50	1.9
	13:47	4.3	12:40-14:00	OUTBD+	13:15-14:00	OUTBD+	12:40	4.2	14:00	4.3
			13:35-15:40	INBD -	13:35-14:20	INBD -	13:35	4.3	15:40	3.9
	20:20	2.8	19:00-20:45	INBD -	19:40-20:45	INBD -	19:00	2.9	20:45	2.8
			20:00-01:30	OUTBD+	20:00-21:20	OUTBD+	20:00	2.8	01:30	3.4
01:02	3.4			23:25-01:30	OUTBD+	23:25	3.3	01:30	3.4	

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 BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/10/07			00:20-02:50	INBD -	00:20-02:00	INBD -	00:20	3.4	02:50	3.1
	07:44	1.8	06:40-07:55	INBD -	07:15-07:55	INBD -	06:40	1.8	07:55	1.8
			07:30-09:00	OUTBD+	07:30-08:15	OUTBD+	07:30	1.7	09:00	2.0
	14:39	4.3	13:40-14:50	OUTBD+	14:10-14:50	OUTBD+	13:40	4.2	14:50	4.3
			14:25-16:10	INBD -	14:25-15:10	INBD -	14:25	4.3	16:10	4.0
	21:11	2.6	20:10-21:25	INBD -	20:40-21:25	INBD -	20:10	2.6	21:25	2.6
		20:55-02:50	OUTBD+	20:55-21:50	OUTBD+	20:55	2.5	02:50	3.5	
2015/10/08	02:27	3.5			01:15-02:50	OUTBD+	01:15	3.4	02:50	3.5
			02:00-03:55	INBD -	02:00-03:10	INBD -	02:00	3.5	03:55	3.2
	08:43	1.9	07:40-08:55	INBD -	08:15-08:55	INBD -	07:40	1.9	08:55	1.9
			08:30-09:55	OUTBD+	08:30-09:15	OUTBD+	08:30	1.8	09:55	2.1
	15:23	4.3	14:25-15:35	OUTBD+	14:55-15:35	OUTBD+	14:25	4.2	15:35	4.3
			15:10-16:35	INBD -	15:10-15:50	INBD -	15:10	4.3	16:35	4.1
21:52	2.3	21:05-22:05	INBD -	21:30-22:05	INBD -	21:05	2.4	22:05	2.4	
		21:40-23:30	OUTBD+	21:40-22:20	OUTBD+	21:40	2.3	23:30	2.7	
2015/10/09	03:32	3.6	00:20-03:50	OUTBD+	02:50-03:50	OUTBD+	00:20	3.0	03:50	3.6
			03:15-04:45	INBD -	03:15-04:05	INBD -	03:15	3.6	04:45	3.4
	09:36	1.9	08:35-09:50	INBD -	09:10-09:50	INBD -	08:35	2.0	09:50	2.0
			09:25-10:45	OUTBD+	09:25-10:05	OUTBD+	09:25	1.9	10:45	2.2
	15:59	4.3	15:05-16:10	OUTBD+	15:35-16:10	OUTBD+	15:05	4.2	16:10	4.2
			15:50-17:00	INBD -	15:50-16:25	INBD -	15:50	4.3	17:00	4.1
22:30	2.1	21:50-22:40	INBD -	22:10-22:40	INBD -	21:50	2.1	22:40	2.2	
		22:20-23:30	OUTBD+	22:20-22:50	OUTBD+	22:20	2.1	23:30	2.4	
2015/10/10	04:23	3.8	02:45-04:35	OUTBD+	03:50-04:35	OUTBD+	02:45	3.6	04:35	3.8
			04:10-05:30	INBD -	04:10-04:50	INBD -	04:10	3.8	05:30	3.5
	10:22	2.0	09:30-10:35	INBD -	10:00-10:35	INBD -	09:30	2.1	10:35	2.1
			10:10-11:25	OUTBD+	10:10-10:45	OUTBD+	10:10	2.0	11:25	2.3
	16:31	4.2	15:35-16:40	OUTBD+	16:05-16:40	OUTBD+	15:35	4.2	16:40	4.2
			16:20-17:25	INBD -	16:20-16:55	INBD -	16:20	4.2	17:25	4.0
23:05	1.9	22:25-23:15	INBD -	22:50-23:15	INBD -	22:25	1.9	23:15	2.0	
		23:00-23:55	OUTBD+	23:00-23:25	OUTBD+	23:00	1.9	23:55	2.2	
2015/10/11	05:06	3.9	03:50-05:20	OUTBD+	04:35-05:20	OUTBD+	03:50	3.8	05:20	3.9
			04:55-06:10	INBD -	04:55-05:35	INBD -	04:55	3.9	06:10	3.7
	11:02	2.2	10:10-11:10	INBD -	10:40-11:10	INBD -	10:10	2.2	11:10	2.2
			10:50-12:00	OUTBD+	10:50-11:25	OUTBD+	10:50	2.1	12:00	2.4
	16:59	4.2	16:00-17:10	OUTBD+	16:35-17:10	OUTBD+	16:00	4.1	17:10	4.2
			16:50-17:50	INBD -	16:50-17:20	INBD -	16:50	4.2	17:50	4.0
23:39	1.8	23:05-23:45	INBD -	23:25-23:45	INBD -	23:05	1.7	23:45	1.8	
		23:30-00:20	OUTBD+	23:30-23:55	OUTBD+	23:30	1.8	00:20	2.0	
2015/10/12	05:45	4.0	04:40-05:55	OUTBD+	05:15-05:55	OUTBD+	04:40	4.0	05:55	4.0
			05:35-06:45	INBD -	05:35-06:10	INBD -	05:35	4.1	06:45	3.8
	11:38	2.3	10:50-11:50	INBD -	11:15-11:50	INBD -	10:50	2.3	11:50	2.3
			11:30-12:35	OUTBD+	11:30-12:00	OUTBD+	11:30	2.3	12:35	2.5
	17:24	4.2	16:20-17:35	OUTBD+	17:00-17:35	OUTBD+	16:20	4.1	17:35	4.1
			17:15-18:15	INBD -	17:15-17:45	INBD -	17:15	4.2	18:15	4.0
00:13	1.6	23:40-00:20	INBD -	00:00-00:20	INBD -	23:40	1.6	00:20	1.7	
2015/10/13			00:05-00:50	OUTBD+	00:05-00:30	OUTBD+	00:05	1.6	00:50	1.8
	06:22	4.1	05:20-06:35	OUTBD+	05:55-06:35	OUTBD+	05:20	4.1	06:35	4.1
			06:10-07:25	INBD -	06:10-06:50	INBD -	06:10	4.2	07:25	3.9
	12:12	2.4	11:25-12:20	INBD -	11:50-12:20	INBD -	11:25	2.4	12:20	2.4
			12:05-13:10	OUTBD+	12:05-12:35	OUTBD+	12:05	2.4	13:10	2.7
	17:47	4.1	16:30-18:00	OUTBD+	17:20-18:00	OUTBD+	16:30	4.0	18:00	4.1
		17:35-18:40	INBD -	17:35-18:10	INBD -	17:35	4.2	18:40	3.9	

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/10/14	00:47	1.5	00:15-00:55	INBD -	00:30-00:55	INBD -	00:15	1.4	00:55	1.5
			00:40-01:25	OUTBD+	00:40-01:05	OUTBD+	00:40	1.5	01:25	1.7
	06:59	4.2	06:00-07:10	OUTBD+	06:30-07:10	OUTBD+	06:00	4.1	07:10	4.2
			06:45-08:10	INBD -	06:45-07:30	INBD -	06:45	4.2	08:10	4.0
	12:45	2.6	11:55-12:55	INBD -	12:20-12:55	INBD -	11:55	2.6	12:55	2.6
			12:35-13:45	OUTBD+	12:35-13:10	OUTBD+	12:35	2.6	13:45	2.8
18:12	4.1	15:25-18:25	OUTBD+	17:40-18:25	OUTBD+	15:25	3.4	18:25	4.1	
		18:00-19:00	INBD -	18:00-18:35	INBD -	18:00	4.1	19:00	3.9	
2015/10/15	01:21	1.4	00:45-01:30	INBD -	01:05-01:30	INBD -	00:45	1.3	01:30	1.4
			01:15-02:00	OUTBD+	01:15-01:35	OUTBD+	01:15	1.4	02:00	1.6
	07:37	4.3	06:40-07:50	OUTBD+	07:10-07:50	OUTBD+	06:40	4.2	07:50	4.2
			07:25-09:00	INBD -	07:25-08:10	INBD -	07:25	4.3	09:00	4.0
	13:18	2.7	12:20-13:30	INBD -	12:55-13:30	INBD -	12:20	2.8	13:30	2.8
			13:05-14:20	OUTBD+	13:05-13:45	OUTBD+	13:05	2.7	14:20	3.0
18:37	4.1	15:35-18:50	OUTBD+	17:55-18:50	OUTBD+	15:35	3.4	18:50	4.0	
		18:20-19:30	INBD -	18:20-19:05	INBD -	18:20	4.1	19:30	3.9	
2015/10/16	01:56	1.4	01:20-02:05	INBD -	01:40-02:05	INBD -	01:20	1.3	02:05	1.4
			01:50-02:35	OUTBD+	01:50-02:10	OUTBD+	01:50	1.3	02:35	1.6
	08:17	4.3	07:15-08:30	OUTBD+	07:50-08:30	OUTBD+	07:15	4.2	08:30	4.3
			08:05-09:55	INBD -	08:05-08:55	INBD -	08:05	4.3	09:55	4.0
	13:54	2.9	12:50-14:05	INBD -	13:25-14:05	INBD -	12:50	3.0	14:05	2.9
			13:40-15:20	OUTBD+	13:40-14:20	OUTBD+	13:40	2.9	15:20	3.2
19:03	4.0	15:45-19:20	OUTBD+	17:25-19:20	OUTBD+	15:45	3.3	19:20	4.0	
		18:40-20:00	INBD -	18:40-19:35	INBD -	18:40	4.0	20:00	3.8	
2015/10/17	02:31	1.3	01:50-02:40	INBD -	02:15-02:40	INBD -	01:50	1.2	02:40	1.3
			02:25-03:10	OUTBD+	02:25-02:50	OUTBD+	02:25	1.3	03:10	1.5
	09:02	4.3	07:55-09:20	OUTBD+	08:30-09:20	OUTBD+	07:55	4.2	09:20	4.3
			08:50-11:00	INBD -	08:50-09:40	INBD -	08:50	4.3	11:00	3.9
	14:36	3.1	13:15-14:50	INBD -	14:05-14:50	INBD -	13:15	3.2	14:50	3.1
			14:20-19:50	OUTBD+	14:20-15:10	OUTBD+	14:20	3.0	19:50	3.9
19:30	3.9	17:30-19:50	OUTBD+	17:30-19:50	OUTBD+	17:30	3.6	19:50	3.9	
		18:40-20:40	INBD -	18:40-20:10	INBD -	18:40	3.8	20:40	3.7	
2015/10/18	03:09	1.3	02:20-03:20	INBD -	02:50-03:20	INBD -	02:20	1.3	03:20	1.4
			03:00-03:55	OUTBD+	03:00-03:30	OUTBD+	03:00	1.3	03:55	1.6
	09:53	4.3	08:40-10:10	OUTBD+	09:20-10:10	OUTBD+	08:40	4.1	10:10	4.3
			09:35-12:05	INBD -	09:35-10:40	INBD -	09:35	4.3	12:05	3.9
	15:28	3.2	13:45-15:50	INBD -	14:45-15:50	INBD -	13:45	3.4	15:50	3.2
			15:10-20:30	OUTBD+	15:10-16:20	OUTBD+	15:10	3.2	20:30	3.7
20:00	3.7	17:55-20:30	OUTBD+	17:55-20:30	OUTBD+	17:55	3.5	20:30	3.7	
		18:50-21:25	INBD -	18:50-20:50	INBD -	18:50	3.7	21:25	3.5	
2015/10/19	03:52	1.4	02:55-04:00	INBD -	03:30-04:00	INBD -	02:55	1.3	04:00	1.4
			03:40-04:40	OUTBD+	03:40-04:15	OUTBD+	03:40	1.3	04:40	1.6
	10:52	4.3	09:35-11:10	OUTBD+	10:15-11:10	OUTBD+	09:35	4.1	11:10	4.3
			10:35-13:10	INBD -	10:35-11:40	INBD -	10:35	4.3	13:10	3.9
	16:38	3.2	14:15-17:10	INBD -	15:45-17:10	INBD -	14:15	3.5	17:10	3.2
			16:10-21:20	OUTBD+	16:10-21:20	OUTBD+	16:10	3.2	21:20	3.6
20:50	3.6	19:35-22:25	INBD -	19:35-21:45	INBD -	19:35	3.5	22:25	3.4	
2015/10/20	04:43	1.5	03:40-04:55	INBD -	04:15-04:55	INBD -	03:40	1.4	04:55	1.5
			04:30-05:35	OUTBD+	04:30-05:05	OUTBD+	04:30	1.4	05:35	1.7
	11:54	4.3	10:35-12:15	OUTBD+	11:15-12:15	OUTBD+	10:35	4.2	12:15	4.3
			11:35-14:05	INBD -	11:35-12:40	INBD -	11:35	4.3	14:05	3.9
	18:04	3.1	15:15-18:40	INBD -	17:05-18:40	INBD -	15:15	3.5	18:40	3.1
			17:35-22:30	OUTBD+	17:35-22:30	OUTBD+	17:35	3.1	22:30	3.4
22:05	3.5	21:15-23:40	INBD -	21:15-22:55	INBD -	21:15	3.4	23:40	3.2	

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/10/21	05:43	1.6	04:35-05:55	INBD -	05:15-05:55	INBD -	04:35	1.5	05:55	1.6
			05:30-06:35	OUTBD+	05:30-06:10	OUTBD+	05:30	1.5	06:35	1.8
	12:54	4.3	11:40-13:10	OUTBD+	12:20-13:10	OUTBD+	11:40	4.2	13:10	4.3
			12:35-14:35	INBD -	12:35-13:35	INBD -	12:35	4.4	14:35	4.0
	19:19	2.9	17:15-19:45	INBD -	18:35-19:45	INBD -	17:15	3.2	19:45	2.9
19:00-23:50			OUTBD+	19:00-20:25	OUTBD+	19:00	2.9	23:50	3.4	
23:30	3.4			22:10-23:50	OUTBD+	22:10	3.3	23:50	3.4	
				23:05-01:10	INBD -	23:05-00:15	INBD -	23:05	3.4	01:10
2015/10/22	06:50	1.7	05:45-07:00	INBD -	06:25-07:00	INBD -	05:45	1.6	07:00	1.7
			06:40-07:45	OUTBD+	06:40-07:15	OUTBD+	06:40	1.6	07:45	1.9
	13:48	4.4	12:40-14:05	OUTBD+	13:20-14:05	OUTBD+	12:40	4.3	14:05	4.4
			13:35-15:05	INBD -	13:35-14:20	INBD -	13:35	4.4	15:05	4.1
	20:19	2.6	19:10-20:35	INBD -	19:50-20:35	INBD -	19:10	2.7	20:35	2.6
20:05-01:20			OUTBD+	20:05-20:55	OUTBD+	20:05	2.6	01:20	3.5	
2015/10/23	00:59	3.5			00:10-01:20	OUTBD+	00:10	3.5	01:20	3.5
					00:35-02:40	INBD -	00:35-01:45	INBD -	00:35	3.5
	07:59	1.7	07:00-08:10	INBD -	07:35-08:10	INBD -	07:00	1.7	08:10	1.8
			07:50-08:50	OUTBD+	07:50-08:20	OUTBD+	07:50	1.7	08:50	2.0
	14:36	4.4	13:40-14:50	OUTBD+	14:10-14:50	OUTBD+	13:40	4.4	14:50	4.4
			14:25-15:35	INBD -	14:25-15:05	INBD -	14:25	4.5	15:35	4.2
21:11	2.2	20:25-21:20	INBD -	20:50-21:20	INBD -	20:25	2.2	21:20	2.3	
		21:00-22:10	OUTBD+	21:00-21:35	OUTBD+	21:00	2.2	22:10	2.5	
2015/10/24	02:32	3.7	00:40-02:50	OUTBD+	01:50-02:50	OUTBD+	00:40	3.4	02:50	3.7
			02:10-03:50	INBD -	02:10-03:10	INBD -	02:10	3.7	03:50	3.5
	09:03	1.9	08:15-09:10	INBD -	08:40-09:10	INBD -	08:15	1.8	09:10	1.9
			08:55-09:50	OUTBD+	08:55-09:25	OUTBD+	08:55	1.8	09:50	2.1
	15:20	4.5	14:30-15:30	OUTBD+	14:55-15:30	OUTBD+	14:30	4.5	15:30	4.5
			15:10-16:10	INBD -	15:10-15:40	INBD -	15:10	4.5	16:10	4.3
22:00	1.8	21:25-22:10	INBD -	21:45-22:10	INBD -	21:25	1.8	22:10	1.9	
		21:55-22:40	OUTBD+	21:55-22:20	OUTBD+	21:55	1.8	22:40	2.0	
2015/10/25	03:48	4.0	02:30-04:00	OUTBD+	03:15-04:00	OUTBD+	02:30	3.8	04:00	3.9
			03:35-04:50	INBD -	03:35-04:15	INBD -	03:35	4.0	04:50	3.7
	10:01	2.0	09:20-10:10	INBD -	09:40-10:10	INBD -	09:20	1.9	10:10	2.0
			09:55-10:45	OUTBD+	09:55-10:20	OUTBD+	09:55	2.0	10:45	2.2
	16:00	4.5	15:10-16:10	OUTBD+	15:40-16:10	OUTBD+	15:10	4.5	16:10	4.5
			15:50-16:40	INBD -	15:50-16:20	INBD -	15:50	4.6	16:40	4.4
22:49	1.5	22:20-22:55	INBD -	22:35-22:55	INBD -	22:20	1.4	22:55	1.5	
		22:45-23:20	OUTBD+	22:45-23:05	OUTBD+	22:45	1.4	23:20	1.6	
2015/10/26	04:51	4.2	03:55-05:00	OUTBD+	04:30-05:00	OUTBD+	03:55	4.2	05:00	4.2
			04:40-05:45	INBD -	04:40-05:15	INBD -	04:40	4.2	05:45	4.0
	10:51	2.2	10:15-11:00	INBD -	10:35-11:00	INBD -	10:15	2.1	11:00	2.2
			10:45-11:30	OUTBD+	10:45-11:10	OUTBD+	10:45	2.1	11:30	2.4
	16:39	4.6	15:50-16:45	OUTBD+	16:20-16:45	OUTBD+	15:50	4.6	16:45	4.6
			16:30-17:20	INBD -	16:30-17:00	INBD -	16:30	4.6	17:20	4.4
23:36	1.1	23:10-23:40	INBD -	23:25-23:40	INBD -	23:10	1.0	23:40	1.1	
		23:30-00:05	OUTBD+	23:30-23:50	OUTBD+	23:30	1.1	00:05	1.3	
2015/10/27	05:47	4.4	05:00-05:55	OUTBD+	05:25-05:55	OUTBD+	05:00	4.4	05:55	4.4
			05:40-06:40	INBD -	05:40-06:10	INBD -	05:40	4.4	06:40	4.2
	11:38	2.3	11:05-11:45	INBD -	11:25-11:45	INBD -	11:05	2.3	11:45	2.4
			11:30-12:15	OUTBD+	11:30-11:55	OUTBD+	11:30	2.3	12:15	2.5
	17:18	4.6	16:25-17:25	OUTBD+	17:00-17:25	OUTBD+	16:25	4.6	17:25	4.6
17:10-17:55			INBD -	17:10-17:35	INBD -	17:10	4.6	17:55	4.4	

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/10/28	00:23	0.9	00:00-00:30	INBD -	00:10-00:30	INBD -	00:00	0.8	00:30	0.9
			00:20-00:50	OUTBD+	00:20-00:35	OUTBD+	00:20	0.8	00:50	1.1
	06:39	4.6	05:55-06:50	OUTBD+	06:20-06:50	OUTBD+	05:55	4.6	06:50	4.6
			06:30-07:35	INBD -	06:30-07:00	INBD -	06:30	4.6	07:35	4.3
	12:24	2.5	11:45-12:30	INBD -	12:05-12:30	INBD -	11:45	2.5	12:30	2.6
			12:15-13:05	OUTBD+	12:15-12:40	OUTBD+	12:15	2.5	13:05	2.7
	17:57	4.5	16:55-18:05	OUTBD+	17:35-18:05	OUTBD+	16:55	4.5	18:05	4.5
17:50-18:35			INBD -	17:50-18:15	INBD -	17:50	4.5	18:35	4.3	
2015/10/29	01:09	0.7	00:45-01:15	INBD -	01:00-01:15	INBD -	00:45	0.6	01:15	0.8
			01:05-01:40	OUTBD+	01:05-01:20	OUTBD+	01:05	0.7	01:40	1.0
	07:29	4.7	06:45-07:40	OUTBD+	07:10-07:40	OUTBD+	06:45	4.6	07:40	4.6
			07:20-08:30	INBD -	07:20-07:55	INBD -	07:20	4.7	08:30	4.4
	13:10	2.7	12:30-13:20	INBD -	12:50-13:20	INBD -	12:30	2.7	13:20	2.8
			13:00-13:55	OUTBD+	13:00-13:30	OUTBD+	13:00	2.7	13:55	2.9
	18:37	4.4	16:35-18:45	OUTBD+	18:10-18:45	OUTBD+	16:35	4.1	18:45	4.4
18:25-19:20			INBD -	18:25-18:55	INBD -	18:25	4.4	19:20	4.2	
2015/10/30	01:54	0.7	01:30-02:00	INBD -	01:40-02:00	INBD -	01:30	0.6	02:00	0.8
			01:50-02:25	OUTBD+	01:50-02:10	OUTBD+	01:50	0.7	02:25	1.0
	08:20	4.7	07:30-08:30	OUTBD+	07:55-08:30	OUTBD+	07:30	4.6	08:30	4.7
			08:10-09:25	INBD -	08:10-08:45	INBD -	08:10	4.7	09:25	4.5
	14:00	2.9	13:10-14:10	INBD -	13:40-14:10	INBD -	13:10	2.9	14:10	2.9
			13:50-15:05	OUTBD+	13:50-14:25	OUTBD+	13:50	2.9	15:05	3.1
	19:16	4.2	16:20-19:30	OUTBD+	18:45-19:30	OUTBD+	16:20	3.6	19:30	4.2
19:05-20:05			INBD -	19:05-19:40	INBD -	19:05	4.2	20:05	4.0	
2015/10/31	02:39	0.8	02:10-02:45	INBD -	02:25-02:45	INBD -	02:10	0.7	02:45	0.9
			02:35-03:15	OUTBD+	02:35-02:55	OUTBD+	02:35	0.8	03:15	1.1
	09:13	4.7	08:20-09:25	OUTBD+	08:45-09:25	OUTBD+	08:20	4.6	09:25	4.7
			09:00-10:25	INBD -	09:00-09:40	INBD -	09:00	4.7	10:25	4.4
	14:58	3.0	13:55-15:15	INBD -	14:30-15:15	INBD -	13:55	3.1	15:15	3.0
			14:45-20:10	OUTBD+	14:45-15:35	OUTBD+	14:45	3.0	20:10	3.9
	19:57	4.0			19:15-20:10	OUTBD+	19:15	4.0	20:10	3.9
				19:40-21:00	INBD -	19:40-20:30	INBD -	19:40	4.0	21:00

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS November 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/11/01	03:24	1.0	02:50-03:30	INBD -	03:10-03:30	INBD -	02:50	0.9	03:30	1.0
			03:15-04:05	OUTBD+	03:15-03:40	OUTBD+	03:15	1.0	04:05	1.3
	10:09	4.6	09:10-10:20	OUTBD+	09:40-10:20	OUTBD+	09:10	4.5	10:20	4.6
			09:55-11:25	INBD -	09:55-10:40	INBD -	09:55	4.6	11:25	4.4
	16:12	3.0	14:45-16:35	INBD -	15:30-16:35	INBD -	14:45	3.2	16:35	3.1
		15:55-21:00	OUTBD+	15:55-17:20	OUTBD+	15:55	3.0	21:00	3.7	
	20:43	3.7			19:40-21:00	OUTBD+	19:40	3.6	21:00	3.7
			20:20-22:10	INBD -	20:20-21:25	INBD -	20:20	3.7	22:10	3.4
2015/11/02	04:11	1.3	03:25-04:20	INBD -	03:50-04:20	INBD -	03:25	1.2	04:20	1.3
			04:00-05:00	OUTBD+	04:00-04:30	OUTBD+	04:00	1.2	05:00	1.6
	11:06	4.6	10:00-11:20	OUTBD+	10:35-11:20	OUTBD+	10:00	4.5	11:20	4.6
			10:50-12:25	INBD -	10:50-11:40	INBD -	10:50	4.6	12:25	4.3
	17:39	3.0	15:55-18:10	INBD -	16:50-18:10	INBD -	15:55	3.1	18:10	3.0
		17:15-22:05	OUTBD+	17:15-19:25	OUTBD+	17:15	2.9	22:05	3.4	
	21:39	3.4			20:10-22:05	OUTBD+	20:10	3.3	22:05	3.4
			21:10-23:40	INBD -	21:10-22:35	INBD -	21:10	3.4	23:40	3.1
2015/11/03	04:59	1.6	04:00-05:10	INBD -	04:35-05:10	INBD -	04:00	1.6	05:10	1.6
			04:50-06:00	OUTBD+	04:50-05:25	OUTBD+	04:50	1.6	06:00	1.9
	12:02	4.5	10:50-12:15	OUTBD+	11:30-12:15	OUTBD+	10:50	4.4	12:15	4.5
			11:50-13:25	INBD -	11:50-12:35	INBD -	11:50	4.5	13:25	4.3
	18:56	2.8	17:25-19:25	INBD -	18:10-19:25	INBD -	17:25	2.9	19:25	2.8
		18:35-23:35	OUTBD+	18:35-20:20	OUTBD+	18:35	2.7	23:35	3.2	
	22:58	3.2			21:20-23:35	OUTBD+	21:20	3.1	23:35	3.2
			22:20-01:20	INBD -	22:20-00:15	INBD -	22:20	3.2	01:20	2.9
2015/11/04	05:52	1.9	04:30-06:05	INBD -	05:20-06:05	INBD -	04:30	1.9	06:05	1.9
			05:40-07:05	OUTBD+	05:40-06:25	OUTBD+	05:40	1.9	07:05	2.2
	12:55	4.4	11:40-13:10	OUTBD+	12:25-13:10	OUTBD+	11:40	4.3	13:10	4.4
			12:40-14:15	INBD -	12:40-13:25	INBD -	12:40	4.5	14:15	4.2
	19:55	2.5	18:40-20:15	INBD -	19:20-20:15	INBD -	18:40	2.6	20:15	2.5
		19:35-01:25	OUTBD+	19:35-20:50	OUTBD+	19:35	2.5	01:25	3.2	
	00:51	3.2			23:05-01:25	OUTBD+	23:05	3.0	01:25	3.2
2015/11/05			00:05-03:00	INBD -	00:05-01:50	INBD -	00:05	3.2	03:00	2.9
	06:51	2.2	04:50-07:05	INBD -	06:10-07:05	INBD -	04:50	2.3	07:05	2.2
			06:35-08:20	OUTBD+	06:35-07:25	OUTBD+	06:35	2.1	08:20	2.5
	13:42	4.4	12:25-13:55	OUTBD+	13:10-13:55	OUTBD+	12:25	4.2	13:55	4.4
			13:30-14:55	INBD -	13:30-14:15	INBD -	13:30	4.4	14:55	4.2
	20:42	2.2	19:45-21:00	INBD -	20:15-21:00	INBD -	19:45	2.3	21:00	2.3
			20:30-02:45	OUTBD+	20:30-21:20	OUTBD+	20:30	2.2	02:45	3.3
2015/11/06	02:23	3.3			01:20-02:45	OUTBD+	01:20	3.3	02:45	3.3
			02:00-08:10	INBD -	02:00-03:10	INBD -	02:00	3.3	08:10	2.4
	07:54	2.4			07:10-08:10	INBD -	07:10	2.4	08:10	2.4
			07:35-09:30	OUTBD+	07:35-08:35	OUTBD+	07:35	2.4	09:30	2.7
	14:24	4.3	13:05-14:35	OUTBD+	13:50-14:35	OUTBD+	13:05	4.2	14:35	4.3
		14:10-15:30	INBD -	14:10-14:55	INBD -	14:10	4.3	15:30	4.1	
	21:23	2.0	20:35-21:35	INBD -	21:00-21:35	INBD -	20:35	2.0	21:35	2.0
			21:15-22:45	OUTBD+	21:15-21:50	OUTBD+	21:15	2.0	22:45	2.3

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
 BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/11/07	03:30	3.5	01:10-03:45	OUTBD+	02:50-03:45	OUTBD+	01:10	3.2	03:45	3.5
			03:10-09:10	INBD -	03:10-04:10	INBD -	03:10	3.5	09:10	2.6
	08:55	2.5			08:15-09:10	INBD -	08:15	2.5	09:10	2.6
			08:35-10:30	OUTBD+	08:35-09:30	OUTBD+	08:35	2.5	10:30	2.9
	14:59	4.3			14:45-16:00	INBD -	14:45	4.3	16:00	4.1
			13:35-15:15	OUTBD+	14:25-15:15	OUTBD+	13:35	4.1	15:15	4.2
22:01	1.8			21:20-22:10	INBD -	21:20	1.7	22:10	1.8	
		21:50-23:00	OUTBD+	21:50-22:25	OUTBD+	21:50	1.7	23:00	2.0	
2015/11/08	04:21	3.8	03:00-04:35	OUTBD+	03:50-04:35	OUTBD+	03:00	3.6	04:35	3.8
			04:05-06:15	INBD -	04:05-04:55	INBD -	04:05	3.8	06:15	3.4
	09:48	2.7			09:15-10:05	INBD -	09:15	2.8	10:05	2.7
			09:35-11:25	OUTBD+	09:35-10:25	OUTBD+	09:35	2.6	11:25	3.1
	15:30	4.2			15:15-16:30	INBD -	15:15	4.2	16:30	4.0
			14:00-15:45	OUTBD+	14:55-15:45	OUTBD+	14:00	4.0	15:45	4.2
22:36	1.5			22:30-23:25	OUTBD+	22:30	1.5	23:25	1.8	
		22:00-22:45	INBD -	22:20-22:45	INBD -	22:00	1.5	22:45	1.6	
2015/11/09	05:04	4.0	03:55-05:20	OUTBD+	04:35-05:20	OUTBD+	03:55	3.9	05:20	4.0
			04:50-06:30	INBD -	04:50-05:35	INBD -	04:50	4.0	06:30	3.7
	10:33	2.8			10:20-12:10	OUTBD+	10:20	2.8	12:10	3.2
			09:20-10:45	INBD -	10:05-10:45	INBD -	09:20	2.8	10:45	2.8
	15:58	4.2			15:45-17:00	INBD -	15:45	4.2	17:00	4.0
			14:10-16:10	OUTBD+	15:25-16:10	OUTBD+	14:10	3.9	16:10	4.2
23:11	1.4			23:05-23:55	OUTBD+	23:05	1.3	23:55	1.6	
		22:35-23:20	INBD -	22:55-23:20	INBD -	22:35	1.3	23:20	1.4	
2015/11/10	05:43	4.2	04:40-05:55	OUTBD+	05:15-05:55	OUTBD+	04:40	4.1	05:55	4.2
			05:30-07:00	INBD -	05:30-06:15	INBD -	05:30	4.2	07:00	3.9
	11:12	2.9			11:00-12:55	OUTBD+	11:00	2.9	12:55	3.3
			10:10-11:25	INBD -	10:45-11:25	INBD -	10:10	2.9	11:25	2.9
	16:24	4.2			16:10-17:25	INBD -	16:10	4.2	17:25	4.0
			13:20-16:40	OUTBD+	15:50-16:40	OUTBD+	13:20	3.4	16:40	4.1
23:46	1.2			23:40-00:25	OUTBD+	23:40	1.2	00:25	1.4	
		23:15-23:50	INBD -	23:30-23:50	INBD -	23:15	1.1	23:50	1.2	
2015/11/11	06:20	4.3	05:20-06:35	OUTBD+	05:50-06:35	OUTBD+	05:20	4.2	06:35	4.3
			06:05-07:35	INBD -	06:05-06:50	INBD -	06:05	4.3	07:35	4.1
	11:49	3.0			11:35-17:05	OUTBD+	11:35	2.9	17:05	4.1
			10:50-12:00	INBD -	11:25-12:00	INBD -	10:50	3.0	12:00	3.0
	16:52	4.1			16:35-17:50	INBD -	16:35	4.2	17:50	3.9
			16:10-17:05	OUTBD+	16:10-17:05	OUTBD+	16:10	4.1	17:05	4.1
00:21	1.1			23:50-00:25	INBD -	23:50	1.0	00:25	1.1	
2015/11/12	06:56	4.4	00:15-00:55	OUTBD+	00:15-00:35	OUTBD+	00:15	1.1	00:55	1.3
			06:00-07:10	OUTBD+	06:30-07:10	OUTBD+	06:00	4.4	07:10	4.4
	12:24	3.1			12:15-17:35	OUTBD+	12:15	3.0	17:35	4.1
			06:45-08:10	INBD -	06:45-07:25	INBD -	06:45	4.4	08:10	4.2
	17:20	4.1			17:00-18:15	INBD -	17:00	4.1	18:15	3.9
			11:25-12:35	INBD -	12:00-12:35	INBD -	11:25	3.1	12:35	3.1
12:15-17:35	OUTBD+	12:15-12:50	OUTBD+	12:15	3.0	17:35	4.1			
16:25-17:35	OUTBD+	16:25-17:35	OUTBD+	16:25	4.1	17:35	4.1			
2015/11/13	00:56	1.0	00:25-01:00	INBD -	00:40-01:00	INBD -	00:25	0.9	01:00	1.0
			00:50-01:30	OUTBD+	00:50-01:10	OUTBD+	00:50	1.0	01:30	1.2
	07:33	4.5			07:20-08:55	INBD -	07:20	4.5	08:55	4.3
			06:40-07:45	OUTBD+	07:05-07:45	OUTBD+	06:40	4.4	07:45	4.5
	13:01	3.1			12:50-18:05	OUTBD+	12:50	3.1	18:05	4.0
			12:00-13:15	INBD -	12:35-13:15	INBD -	12:00	3.2	13:15	3.2
17:49	4.1			17:25-18:50	INBD -	17:25	4.1	18:50	3.9	
		16:10-18:05	OUTBD+	16:10-18:05	OUTBD+	16:10	3.9	18:05	4.0	

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/11/14	01:31	1.0	01:00-01:35	INBD -	01:15-01:35	INBD -	01:00	0.9	01:35	1.0
			01:25-02:05	OUTBD+	01:25-01:45	OUTBD+	01:25	0.9	02:05	1.2
	08:12	4.6	07:15-08:25	OUTBD+	07:45-08:25	OUTBD+	07:15	4.5	08:25	4.6
			08:00-09:40	INBD -	08:00-08:45	INBD -	08:00	4.6	09:40	4.3
	13:42	3.2	12:35-13:55	INBD -	13:15-13:55	INBD -	12:35	3.3	13:55	3.2
			13:30-18:40	OUTBD+	13:30-14:15	OUTBD+	13:30	3.2	18:40	4.0
18:18	4.0			16:30-18:40	OUTBD+	16:30	3.8	18:40	4.0	
		17:30-19:25	INBD -	17:30-18:55	INBD -	17:30	3.9	19:25	3.8	
2015/11/15	02:08	1.0	01:30-02:15	INBD -	01:50-02:15	INBD -	01:30	0.9	02:15	1.0
			02:00-02:45	OUTBD+	02:00-02:25	OUTBD+	02:00	1.0	02:45	1.2
	08:54	4.6	08:00-09:10	OUTBD+	08:25-09:10	OUTBD+	08:00	4.5	09:10	4.6
			08:40-10:25	INBD -	08:40-09:25	INBD -	08:40	4.6	10:25	4.3
	14:29	3.2	13:10-14:45	INBD -	13:55-14:45	INBD -	13:10	3.4	14:45	3.2
			14:15-19:20	OUTBD+	14:15-15:05	OUTBD+	14:15	3.2	19:20	3.8
18:51	3.9			17:00-19:20	OUTBD+	17:00	3.7	19:20	3.8	
		17:50-20:10	INBD -	17:50-19:35	INBD -	17:50	3.8	20:10	3.6	
2015/11/16	02:47	1.1	02:05-02:55	INBD -	02:30-02:55	INBD -	02:05	1.0	02:55	1.1
			02:40-03:25	OUTBD+	02:40-03:05	OUTBD+	02:40	1.0	03:25	1.3
	09:39	4.6	08:40-09:55	OUTBD+	09:10-09:55	OUTBD+	08:40	4.5	09:55	4.6
			09:25-11:15	INBD -	09:25-10:15	INBD -	09:25	4.6	11:15	4.3
	15:27	3.2	13:50-15:45	INBD -	14:45-15:45	INBD -	13:50	3.4	15:45	3.2
			15:10-20:05	OUTBD+	15:10-16:15	OUTBD+	15:10	3.2	20:05	3.7
19:36	3.7			17:35-20:05	OUTBD+	17:35	3.5	20:05	3.7	
		18:30-21:00	INBD -	18:30-20:25	INBD -	18:30	3.6	21:00	3.5	
2015/11/17	03:29	1.2	02:45-03:35	INBD -	03:10-03:35	INBD -	02:45	1.1	03:35	1.2
			03:20-04:10	OUTBD+	03:20-03:50	OUTBD+	03:20	1.2	04:10	1.4
	10:27	4.6	09:25-10:40	OUTBD+	10:00-10:40	OUTBD+	09:25	4.5	10:40	4.6
			10:15-12:00	INBD -	10:15-11:00	INBD -	10:15	4.6	12:00	4.3
	16:37	3.1	14:45-17:00	INBD -	15:55-17:00	INBD -	14:45	3.3	17:00	3.1
			20:39	3.5	16:15-21:05	OUTBD+	16:15-21:05	OUTBD+	16:15	3.1
19:45-22:05	INBD -	19:45-21:25	INBD -	19:45	3.5	22:05	3.3			
2015/11/18	04:17	1.4	03:25-04:25	INBD -	03:55-04:25	INBD -	03:25	1.3	04:25	1.4
			04:10-05:05	OUTBD+	04:10-04:40	OUTBD+	04:10	1.4	05:05	1.7
	11:18	4.6	10:15-11:30	OUTBD+	10:50-11:30	OUTBD+	10:15	4.5	11:30	4.6
			11:05-12:40	INBD -	11:05-11:50	INBD -	11:05	4.6	12:40	4.3
	17:50	2.9	16:15-18:10	INBD -	17:10-18:10	INBD -	16:15	3.1	18:10	2.9
			17:30-22:20	OUTBD+	17:30-18:55	OUTBD+	17:30	2.9	22:20	3.3
21:58	3.3			20:00-22:20	OUTBD+	20:00	3.2	22:20	3.3	
		21:25-23:25	INBD -	21:25-22:40	INBD -	21:25	3.3	23:25	3.1	
2015/11/19	05:13	1.6	04:10-05:25	INBD -	04:45-05:25	INBD -	04:10	1.6	05:25	1.7
			05:00-06:05	OUTBD+	05:00-05:35	OUTBD+	05:00	1.6	06:05	1.9
	12:08	4.6	11:05-12:20	OUTBD+	11:40-12:20	OUTBD+	11:05	4.5	12:20	4.6
			11:55-13:20	INBD -	11:55-12:40	INBD -	11:55	4.6	13:20	4.4
	18:56	2.6	17:45-19:15	INBD -	18:25-19:15	INBD -	17:45	2.7	19:15	2.6
			18:40-23:45	OUTBD+	18:40-19:35	OUTBD+	18:40	2.6	23:45	3.3
23:27	3.3			22:30-23:45	OUTBD+	22:30	3.2	23:45	3.3	
		23:05-01:10	INBD -	23:05-00:10	INBD -	23:05	3.3	01:10	3.0	
2015/11/20	06:16	1.9	05:05-06:25	INBD -	05:45-06:25	INBD -	05:05	1.9	06:25	1.9
			06:05-07:10	OUTBD+	06:05-06:40	OUTBD+	06:05	1.9	07:10	2.2
	12:57	4.6	11:55-13:10	OUTBD+	12:30-13:10	OUTBD+	11:55	4.5	13:10	4.6
			12:45-14:00	INBD -	12:45-13:25	INBD -	12:45	4.6	14:00	4.4
	19:54	2.2	19:05-20:05	INBD -	19:30-20:05	INBD -	19:05	2.2	20:05	2.2
			19:45-21:25	OUTBD+	19:45-20:20	OUTBD+	19:45	2.2	21:25	2.5
01:05	3.4	22:45-01:25	OUTBD+	00:15-01:25	OUTBD+	22:45	2.9	01:25	3.4	

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BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/11/21			00:45-02:55	INBD -	00:45-01:50	INBD -	00:45	3.4	02:55	3.1
	07:24	2.2	06:10-07:35	INBD -	06:55-07:35	INBD -	06:10	2.2	07:35	2.2
			07:10-08:20	OUTBD+	07:10-07:50	OUTBD+	07:10	2.2	08:20	2.5
	13:43	4.6	12:40-13:55	OUTBD+	13:15-13:55	OUTBD+	12:40	4.5	13:55	4.6
			13:30-14:35	INBD -	13:30-14:05	INBD -	13:30	4.6	14:35	4.4
	20:48	1.7	20:10-20:55	INBD -	20:30-20:55	INBD -	20:10	1.7	20:55	1.8
		20:40-21:40	OUTBD+	20:40-21:10	OUTBD+	20:40	1.7	21:40	2.0	
2015/11/22	02:40	3.7	01:05-03:00	OUTBD+	02:00-03:00	OUTBD+	01:05	3.4	03:00	3.7
			02:20-04:10	INBD -	02:20-03:20	INBD -	02:20	3.7	04:10	3.4
	08:32	2.5	07:25-08:45	INBD -	08:05-08:45	INBD -	07:25	2.4	08:45	2.5
			08:20-09:30	OUTBD+	08:20-08:55	OUTBD+	08:20	2.4	09:30	2.7
	14:27	4.6	13:20-14:35	OUTBD+	14:00-14:35	OUTBD+	13:20	4.5	14:35	4.6
			14:15-15:15	INBD -	14:15-14:50	INBD -	14:15	4.6	15:15	4.4
21:39	1.3	21:05-21:45	INBD -	21:25-21:45	INBD -	21:05	1.3	21:45	1.3	
		21:35-22:20	OUTBD+	21:35-21:55	OUTBD+	21:35	1.3	22:20	1.5	
2015/11/23	03:55	4.0	02:45-04:10	OUTBD+	03:25-04:10	OUTBD+	02:45	3.9	04:10	4.0
			03:40-05:15	INBD -	03:40-04:25	INBD -	03:40	4.0	05:15	3.7
	09:34	2.7	08:40-09:45	INBD -	09:10-09:45	INBD -	08:40	2.6	09:45	2.7
			09:25-10:30	OUTBD+	09:25-09:55	OUTBD+	09:25	2.6	10:30	2.9
	15:10	4.6	13:55-15:20	OUTBD+	14:45-15:20	OUTBD+	13:55	4.5	15:20	4.6
			15:00-15:55	INBD -	15:00-15:30	INBD -	15:00	4.6	15:55	4.4
22:29	1.0	22:00-22:35	INBD -	22:15-22:35	INBD -	22:00	0.9	22:35	1.0	
		22:25-23:05	OUTBD+	22:25-22:45	OUTBD+	22:25	1.0	23:05	1.2	
2015/11/24	04:57	4.3	04:05-05:10	OUTBD+	04:30-05:10	OUTBD+	04:05	4.3	05:10	4.3
			04:45-06:15	INBD -	04:45-05:25	INBD -	04:45	4.3	06:15	4.0
	10:30	2.8	09:45-10:40	INBD -	10:10-10:40	INBD -	09:45	2.8	10:40	2.9
			10:20-11:20	OUTBD+	10:20-10:50	OUTBD+	10:20	2.8	11:20	3.1
	15:53	4.6	14:10-16:05	OUTBD+	15:25-16:05	OUTBD+	14:10	4.3	16:05	4.6
			15:40-16:40	INBD -	15:40-16:15	INBD -	15:40	4.6	16:40	4.4
23:18	0.7	22:50-23:25	INBD -	23:05-23:25	INBD -	22:50	0.6	23:25	0.7	
		23:15-23:50	OUTBD+	23:15-23:30	OUTBD+	23:15	0.7	23:50	0.9	
2015/11/25	05:51	4.5	05:00-06:00	OUTBD+	05:25-06:00	OUTBD+	05:00	4.5	06:00	4.5
			05:40-07:05	INBD -	05:40-06:20	INBD -	05:40	4.6	07:05	4.3
	11:21	3.0	10:35-11:30	INBD -	11:00-11:30	INBD -	10:35	3.0	11:30	3.0
			11:15-12:10	OUTBD+	11:15-11:40	OUTBD+	11:15	3.0	12:10	3.2
	16:36	4.5	14:15-16:45	OUTBD+	16:05-16:45	OUTBD+	14:15	4.1	16:45	4.5
			16:25-17:25	INBD -	16:25-17:00	INBD -	16:25	4.6	17:25	4.3
00:05	0.5	23:40-00:10	INBD -	23:55-00:10	INBD -	23:40	0.4	00:10	0.6	
2015/11/26	06:39	4.7	00:00-00:35	OUTBD+	00:00-00:20	OUTBD+	00:00	0.5	00:35	0.8
			05:55-06:50	OUTBD+	06:15-06:50	OUTBD+	05:55	4.7	06:50	4.7
			06:30-07:55	INBD -	06:30-07:05	INBD -	06:30	4.7	07:55	4.4
	12:10	3.1	11:25-12:20	INBD -	11:50-12:20	INBD -	11:25	3.1	12:20	3.1
			12:00-13:05	OUTBD+	12:00-12:30	OUTBD+	12:00	3.0	13:05	3.3
	17:19	4.5	14:40-17:30	OUTBD+	16:45-17:30	OUTBD+	14:40	3.9	17:30	4.4
		17:05-18:10	INBD -	17:05-17:45	INBD -	17:05	4.5	18:10	4.2	
2015/11/27	00:50	0.5	00:25-00:55	INBD -	00:40-00:55	INBD -	00:25	0.4	00:55	0.5
			00:45-01:25	OUTBD+	00:45-01:05	OUTBD+	00:45	0.5	01:25	0.8
	07:25	4.8	06:40-07:35	OUTBD+	07:05-07:35	OUTBD+	06:40	4.8	07:35	4.8
			07:15-08:35	INBD -	07:15-07:50	INBD -	07:15	4.8	08:35	4.6
	12:58	3.1	12:10-13:10	INBD -	12:35-13:10	INBD -	12:10	3.1	13:10	3.1
			12:50-14:05	OUTBD+	12:50-13:20	OUTBD+	12:50	3.1	14:05	3.4
18:01	4.3	15:00-18:15	OUTBD+	17:20-18:15	OUTBD+	15:00	3.7	18:15	4.3	
		17:45-18:55	INBD -	17:45-18:30	INBD -	17:45	4.3	18:55	4.1	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/11/28	01:33	0.6	01:05-01:40	INBD -	01:20-01:40	INBD -	01:05	0.5	01:40	0.6
			01:30-02:05	OUTBD+	01:30-01:45	OUTBD+	01:30	0.6	02:05	0.8
	08:10	4.9	07:25-08:20	OUTBD+	07:45-08:20	OUTBD+	07:25	4.8	08:20	4.8
			08:00-09:20	INBD -	08:00-08:35	INBD -	08:00	4.9	09:20	4.6
	13:51	3.1	12:55-14:00	INBD -	13:25-14:00	INBD -	12:55	3.2	14:00	3.1
			13:40-18:55	OUTBD+	13:40-14:20	OUTBD+	13:40	3.1	18:55	4.1
18:43	4.1			17:55-18:55	OUTBD+	17:55	4.1	18:55	4.1	
		18:25-19:40	INBD -	18:25-19:15	INBD -	18:25	4.1	19:40	3.9	
2015/11/29	02:15	0.8	01:45-02:20	INBD -	02:00-02:20	INBD -	01:45	0.6	02:20	0.8
			02:10-02:50	OUTBD+	02:10-02:30	OUTBD+	02:10	0.7	02:50	1.0
	08:54	4.9	08:05-09:05	OUTBD+	08:30-09:05	OUTBD+	08:05	4.8	09:05	4.8
			08:45-10:00	INBD -	08:45-09:20	INBD -	08:45	4.9	10:00	4.6
	14:49	3.1	13:45-15:05	INBD -	14:20-15:05	INBD -	13:45	3.2	15:05	3.1
			14:35-19:40	OUTBD+	14:35-15:30	OUTBD+	14:35	3.1	19:40	3.8
19:25	3.9			18:25-19:40	OUTBD+	18:25	3.8	19:40	3.8	
		19:05-20:35	INBD -	19:05-20:00	INBD -	19:05	3.9	20:35	3.6	
2015/11/30	02:54	1.0	02:20-03:00	INBD -	02:40-03:00	INBD -	02:20	0.9	03:00	1.0
			02:45-03:35	OUTBD+	02:45-03:10	OUTBD+	02:45	1.0	03:35	1.3
	09:40	4.8	08:45-09:50	OUTBD+	09:15-09:50	OUTBD+	08:45	4.7	09:50	4.8
			09:30-10:50	INBD -	09:30-10:10	INBD -	09:30	4.8	10:50	4.6
	15:56	3.0	14:40-16:20	INBD -	15:20-16:20	INBD -	14:40	3.1	16:20	3.0
			15:40-20:30	OUTBD+	15:40-17:00	OUTBD+	15:40	3.0	20:30	3.6
20:12	3.6			19:00-20:30	OUTBD+	19:00	3.5	20:30	3.6	
		19:45-21:35	INBD -	19:45-20:55	INBD -	19:45	3.6	21:35	3.3	

PORT METRO VANCOUVER
 SECOND NARROWS MRA STANDING ORDER
 TRANSIT PERIODS - MRA VESSELS December 2015
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

YYYY/MM/DD	SLACK WATER		OPERATIONAL TIME FRAME				WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
	TIMES	HEIGHTS	2 KNOT WINDOW PERIOD	TRANSIT	1 KNOT CURRENT PERIOD	TRANSIT				
2015/12/01	03:33	1.3	02:50-03:40	INBD -	03:15-03:40	INBD -	02:50	1.2	03:40	1.3
			03:25-04:20	OUTBD+	03:25-03:55	OUTBD+	03:25	1.3	04:20	1.6
	10:26	4.7	09:25-10:40	OUTBD+	10:00-10:40	OUTBD+	09:25	4.6	10:40	4.7
			10:15-11:40	INBD -	10:15-10:55	INBD -	10:15	4.7	11:40	4.5
	17:09	2.8	15:45-17:35	INBD -	16:30-17:35	INBD -	15:45	3.0	17:35	2.9
			16:50-21:30	OUTBD+	16:50-18:35	OUTBD+	16:50	2.8	21:30	3.3
21:08	3.3			19:45-21:30	OUTBD+	19:45	3.2	21:30	3.3	
		20:40-23:05	INBD -	20:40-22:00	INBD -	20:40	3.3	23:05	3.0	
2015/12/02	04:13	1.7	03:10-04:25	INBD -	03:45-04:25	INBD -	03:10	1.6	04:25	1.7
			04:00-05:10	OUTBD+	04:00-04:40	OUTBD+	04:00	1.6	05:10	1.9
	11:11	4.6	10:05-11:25	OUTBD+	10:40-11:25	OUTBD+	10:05	4.5	11:25	4.6
			10:55-12:25	INBD -	10:55-11:45	INBD -	10:55	4.7	12:25	4.4
	18:17	2.6	16:55-18:40	INBD -	17:35-18:40	INBD -	16:55	2.7	18:40	2.6
			18:00-23:00	OUTBD+	18:00-19:25	OUTBD+	18:00	2.6	23:00	3.1
22:23	3.1			21:00-23:00	OUTBD+	21:00	3.0	23:00	3.1	
		21:50-01:00	INBD -	21:50-23:40	INBD -	21:50	3.1	01:00	2.7	
2015/12/03	04:55	2.0	03:15-05:10	INBD -	04:15-05:10	INBD -	03:15	2.1	05:10	2.1
			04:35-06:10	OUTBD+	04:35-05:30	OUTBD+	04:35	2.0	06:10	2.4
	11:54	4.6	10:35-12:10	OUTBD+	11:20-12:10	OUTBD+	10:35	4.4	12:10	4.5
			11:40-13:10	INBD -	11:40-12:30	INBD -	11:40	4.6	13:10	4.3
	19:15	2.3	18:00-19:35	INBD -	18:40-19:35	INBD -	18:00	2.4	19:35	2.4
			19:00-01:00	OUTBD+	19:00-20:05	OUTBD+	19:00	2.3	01:00	3.1
00:20	3.1			22:35-01:00	OUTBD+	22:35	2.9	01:00	3.1	
		23:25-06:05	INBD -	23:25-01:35	INBD -	23:25	3.0	06:05	2.5	
2015/12/04	05:43	2.4			04:45-06:05	INBD -	04:45	2.4	06:05	2.5
			05:20-07:35	OUTBD+	05:20-06:30	OUTBD+	05:20	2.4	07:35	2.8
	12:35	4.5	11:05-12:50	OUTBD+	11:55-12:50	OUTBD+	11:05	4.3	12:50	4.4
			12:15-13:55	INBD -	12:15-13:10	INBD -	12:15	4.5	13:55	4.2
20:04	2.1	19:00-20:20	INBD -	19:35-20:20	INBD -	19:00	2.1	20:20	2.1	
		19:50-02:30	OUTBD+	19:50-20:40	OUTBD+	19:50	2.1	02:30	3.2	
2015/12/05	02:06	3.2			00:50-02:30	OUTBD+	00:50	3.2	02:30	3.2
			01:35-07:15	INBD -	01:35-03:05	INBD -	01:35	3.2	07:15	2.8
	06:46	2.8			05:20-07:15	INBD -	05:20	2.8	07:15	2.8
			06:10-09:25	OUTBD+	06:10-07:45	OUTBD+	06:10	2.7	09:25	3.4
	13:12	4.4	11:20-13:30	OUTBD+	12:30-13:30	OUTBD+	11:20	4.1	13:30	4.3
			12:50-14:35	INBD -	12:50-13:50	INBD -	12:50	4.4	14:35	4.1
20:47	1.8	19:55-21:00	INBD -	20:20-21:00	INBD -	19:55	1.8	21:00	1.8	
		20:35-22:10	OUTBD+	20:35-21:15	OUTBD+	20:35	1.8	22:10	2.1	
2015/12/06	03:18	3.5	00:45-03:40	OUTBD+	02:30-03:40	OUTBD+	00:45	3.1	03:40	3.5
			02:55-08:30	INBD -	02:55-04:10	INBD -	02:55	3.5	08:30	3.0
	08:01	3.0			06:30-08:30	INBD -	06:30	3.1	08:30	3.0
			07:30-14:05	OUTBD+	07:30-09:00	OUTBD+	07:30	3.0	14:05	4.3
	13:46	4.3			13:00-14:05	OUTBD+	13:00	4.3	14:05	4.3
			13:25-15:10	INBD -	13:25-14:25	INBD -	13:25	4.3	15:10	4.0
21:27	1.6	20:40-21:35	INBD -	21:05-21:35	INBD -	20:40	1.5	21:35	1.6	
		21:15-22:30	OUTBD+	21:15-21:50	OUTBD+	21:15	1.5	22:30	1.8	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
 BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/12/07	04:11	3.8	02:40-04:30	OUTBD+	03:35-04:30	OUTBD+	02:40	3.6	04:30	3.8
			03:55-09:30	INBD -	03:55-04:55	INBD -	03:55	3.8	09:30	3.2
	09:08	3.2			08:10-09:30	INBD -	08:10	3.2	09:30	3.2
			08:45-14:40	OUTBD+	08:45-10:00	OUTBD+	08:45	3.1	14:40	4.2
	14:19	4.3	14:00-15:40	INBD -	14:00-15:00	INBD -	14:00	4.3	15:40	4.0
22:05	1.3	21:25-22:15	INBD -	21:45-22:15	INBD -	21:25	1.3	22:15	1.4	
		21:55-22:55	OUTBD+	21:55-22:25	OUTBD+	21:55	1.3	22:55	1.6	
2015/12/08	04:55	4.1	03:40-05:10	OUTBD+	04:20-05:10	OUTBD+	03:40	3.9	05:10	4.0
			04:40-10:20	INBD -	04:40-05:35	INBD -	04:40	4.1	10:20	3.3
	10:02	3.3			09:20-10:20	INBD -	09:20	3.2	10:20	3.3
			09:45-15:10	OUTBD+	09:45-10:50	OUTBD+	09:45	3.2	15:10	4.2
	14:52	4.2	14:05-15:10	OUTBD+	14:05-15:10	OUTBD+	14:05	4.2	15:10	4.2
22:42	1.1	14:35-16:05	INBD -	14:35-15:30	INBD -	14:35	4.2	16:05	4.0	
		22:05-22:50	INBD -	22:25-22:50	INBD -	22:05	1.1	22:50	1.2	
22:35-23:25	OUTBD+	22:35-23:00	OUTBD+	22:35	1.1	23:25	1.4			
2015/12/09	05:34	4.3	04:30-05:50	OUTBD+	05:05-05:50	OUTBD+	04:30	4.2	05:50	4.3
			05:20-07:15	INBD -	05:20-06:05	INBD -	05:20	4.3	07:15	4.0
	10:47	3.3	09:10-11:05	INBD -	10:10-11:05	INBD -	09:10	3.4	11:05	3.3
			10:30-15:45	OUTBD+	10:30-11:25	OUTBD+	10:30	3.3	15:45	4.2
	15:27	4.2			14:35-15:45	OUTBD+	14:35	4.2	15:45	4.2
15:05-16:35			INBD -	15:05-16:00	INBD -	15:05	4.2	16:35	4.0	
23:19	1.0	22:45-23:25	INBD -	23:05-23:25	INBD -	22:45	0.9	23:25	1.0	
		23:10-00:00	OUTBD+	23:10-23:35	OUTBD+	23:10	0.9	00:00	1.2	
2015/12/10	06:10	4.5	05:10-06:25	OUTBD+	05:45-06:25	OUTBD+	05:10	4.4	06:25	4.4
			06:00-07:35	INBD -	06:00-06:40	INBD -	06:00	4.5	07:35	4.2
	11:27	3.3	10:15-11:40	INBD -	10:55-11:40	INBD -	10:15	3.4	11:40	3.4
			11:15-16:20	OUTBD+	11:15-12:00	OUTBD+	11:15	3.3	16:20	4.2
	16:02	4.2			15:00-16:20	OUTBD+	15:00	4.2	16:20	4.2
15:40-17:10			INBD -	15:40-16:35	INBD -	15:40	4.2	17:10	4.0	
23:56	0.9	23:25-00:00	INBD -	23:40-00:00	INBD -	23:25	0.8	00:00	0.9	
		23:50-00:30	OUTBD+	23:50-00:10	OUTBD+	23:50	0.8	00:30	1.1	
2015/12/11	06:47	4.6	05:55-07:00	OUTBD+	06:20-07:00	OUTBD+	05:55	4.5	07:00	4.6
			06:35-08:05	INBD -	06:35-07:15	INBD -	06:35	4.6	08:05	4.3
	12:06	3.4	11:00-12:20	INBD -	11:40-12:20	INBD -	11:00	3.4	12:20	3.4
			11:55-16:55	OUTBD+	11:55-12:35	OUTBD+	11:55	3.3	16:55	4.2
	16:38	4.2			15:20-16:55	OUTBD+	15:20	4.1	16:55	4.2
16:10-17:45			INBD -	16:10-17:15	INBD -	16:10	4.2	17:45	4.0	
2015/12/12	00:34	0.8	00:05-00:40	INBD -	00:20-00:40	INBD -	00:05	0.7	00:40	0.8
			00:30-01:10	OUTBD+	00:30-00:50	OUTBD+	00:30	0.7	01:10	1.0
	07:23	4.7	06:35-07:35	OUTBD+	07:00-07:35	OUTBD+	06:35	4.6	07:35	4.7
			07:10-08:40	INBD -	07:10-07:55	INBD -	07:10	4.7	08:40	4.4
	12:47	3.4	11:40-13:00	INBD -	12:20-13:00	INBD -	11:40	3.4	13:00	3.4
12:35-17:35			OUTBD+	12:35-13:15	OUTBD+	12:35	3.3	17:35	4.1	
17:17	4.2			15:45-17:35	OUTBD+	15:45	4.0	17:35	4.1	
		16:45-18:20	INBD -	16:45-17:55	INBD -	16:45	4.2	18:20	4.0	
2015/12/13	01:12	0.7	00:40-01:15	INBD -	01:00-01:15	INBD -	00:40	0.6	01:15	0.7
			01:05-01:45	OUTBD+	01:05-01:25	OUTBD+	01:05	0.7	01:45	1.0
	08:01	4.7	07:10-08:15	OUTBD+	07:35-08:15	OUTBD+	07:10	4.7	08:15	4.7
			07:50-09:20	INBD -	07:50-08:30	INBD -	07:50	4.7	09:20	4.5
	13:31	3.3	12:25-13:45	INBD -	13:05-13:45	INBD -	12:25	3.4	13:45	3.3
13:20-18:20			OUTBD+	13:20-14:00	OUTBD+	13:20	3.3	18:20	4.1	
17:59	4.1			16:25-18:20	OUTBD+	16:25	3.9	18:20	4.1	
		17:20-19:05	INBD -	17:20-18:35	INBD -	17:20	4.1	19:05	3.9	

INFORMATION IN COLUMN UNDER 'OPERATIONAL TIME FRAMES' IS
BASED ON .5 KNOT OF PREVIOUS OR FOLLOWING CURRENT INCLUDED
TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT PERIOD	WINDOW TRANSIT	1 KNOT PERIOD	CURRENT TRANSIT	WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
2015/12/14	01:50	0.8	01:20-01:55	INBD -	01:35-01:55	INBD -	01:20	0.7	01:55	0.8
			01:45-02:25	OUTBD+	01:45-02:05	OUTBD+	01:45	0.8	02:25	1.0
	08:39	4.8	07:50-08:50	OUTBD+	08:15-08:50	OUTBD+	07:50	4.7	08:50	4.8
			08:30-09:55	INBD -	08:30-09:05	INBD -	08:30	4.8	09:55	4.5
	14:21	3.2	13:10-14:35	INBD -	13:50-14:35	INBD -	13:10	3.3	14:35	3.3
			14:10-19:05	OUTBD+	14:10-14:50	OUTBD+	14:10	3.2	19:05	3.9
18:47	3.9	18:10-19:55	INBD -	18:10-19:25	INBD -	18:10	3.9	19:55	3.7	
2015/12/15	02:30	0.9	01:55-02:35	INBD -	02:15-02:35	INBD -	01:55	0.8	02:35	0.9
			02:25-03:05	OUTBD+	02:25-02:45	OUTBD+	02:25	0.9	03:05	1.2
	09:19	4.8	08:30-09:30	OUTBD+	08:55-09:30	OUTBD+	08:30	4.7	09:30	4.8
			09:10-10:30	INBD -	09:10-09:45	INBD -	09:10	4.8	10:30	4.5
	15:17	3.1	14:05-15:30	INBD -	14:50-15:30	INBD -	14:05	3.2	15:30	3.1
			15:05-20:00	OUTBD+	15:05-15:50	OUTBD+	15:05	3.1	20:00	3.7
19:43	3.8	19:10-20:50	INBD -	19:10-20:20	INBD -	19:10	3.8	20:50	3.5	
2015/12/16	03:12	1.1	02:35-03:20	INBD -	02:55-03:20	INBD -	02:35	1.0	03:20	1.2
			03:05-03:50	OUTBD+	03:05-03:30	OUTBD+	03:05	1.1	03:50	1.4
	09:59	4.8	09:10-10:10	OUTBD+	09:40-10:10	OUTBD+	09:10	4.8	10:10	4.8
			09:50-11:05	INBD -	09:50-10:25	INBD -	09:50	4.8	11:05	4.6
	16:20	2.9	15:15-16:35	INBD -	15:50-16:35	INBD -	15:15	3.0	16:35	2.9
			16:05-21:05	OUTBD+	16:05-16:55	OUTBD+	16:05	2.9	21:05	3.5
20:47	3.5	20:25-21:55	INBD -	20:25-21:20	INBD -	20:25	3.6	21:55	3.4	
2015/12/17	03:57	1.4	03:10-04:05	INBD -	03:35-04:05	INBD -	03:10	1.3	04:05	1.5
			03:50-04:40	OUTBD+	03:50-04:15	OUTBD+	03:50	1.4	04:40	1.7
	10:43	4.8	09:55-10:55	OUTBD+	10:20-10:55	OUTBD+	09:55	4.8	10:55	4.8
			10:30-11:45	INBD -	10:30-11:05	INBD -	10:30	4.8	11:45	4.6
	17:24	2.6	16:25-17:35	INBD -	16:55-17:35	INBD -	16:25	2.6	17:35	2.6
			17:10-22:20	OUTBD+	17:10-17:55	OUTBD+	17:10	2.6	22:20	3.4
22:01	3.4	21:40-23:20	INBD -	21:40-22:35	INBD -	21:40	3.3	22:20	3.4	
2015/12/18	04:47	1.8	03:50-04:55	INBD -	04:25-04:55	INBD -	03:50	1.7	04:55	1.8
			04:35-05:35	OUTBD+	04:35-05:10	OUTBD+	04:35	1.8	05:35	2.1
	11:26	4.8	10:30-11:35	OUTBD+	11:00-11:35	OUTBD+	10:30	4.7	11:35	4.8
			11:15-12:25	INBD -	11:15-11:50	INBD -	11:15	4.8	12:25	4.6
	18:26	2.2	17:35-18:40	INBD -	18:00-18:40	INBD -	17:35	2.3	18:40	2.2
			18:15-23:45	OUTBD+	18:15-18:55	OUTBD+	18:15	2.2	23:45	3.3
23:28	3.3	23:10-01:10	INBD -	23:10-00:10	INBD -	23:10	3.3	01:10	3.1	
2015/12/19	05:45	2.2	04:30-05:55	INBD -	05:15-05:55	INBD -	04:30	2.2	05:55	2.2
			05:35-06:40	OUTBD+	05:35-06:10	OUTBD+	05:35	2.2	06:40	2.5
	12:09	4.8	11:10-12:20	OUTBD+	11:45-12:20	OUTBD+	11:10	4.7	12:20	4.7
			12:00-13:05	INBD -	12:00-12:35	INBD -	12:00	4.8	13:05	4.5
	19:25	1.8	18:40-19:35	INBD -	19:05-19:35	INBD -	18:40	1.8	19:35	1.8
			19:15-20:30	OUTBD+	19:15-19:50	OUTBD+	19:15	1.8	20:30	2.0
01:09	3.5	23:20-01:30	OUTBD+	00:25-01:30	OUTBD+	23:20	3.1	01:30	3.5	
2015/12/20	06:53	2.6	00:50-03:15	INBD -	00:50-02:00	INBD -	00:50	3.5	03:15	3.2
			05:05-07:05	INBD -	06:20-07:05	INBD -	05:05	2.7	07:05	2.7
	12:53	4.7	06:40-08:00	OUTBD+	06:40-07:20	OUTBD+	06:40	2.6	08:00	2.9
			11:40-13:05	OUTBD+	12:25-13:05	OUTBD+	11:40	4.6	13:05	4.7
	20:22	1.4	12:40-13:50	INBD -	12:40-13:20	INBD -	12:40	4.7	13:50	4.5
			19:45-20:30	INBD -	20:05-20:30	INBD -	19:45	1.4	20:30	1.4
		20:15-21:10	OUTBD+	20:15-20:40	OUTBD+	20:15	1.4	21:10	1.6	

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2015/12/21	02:45	3.8	01:15-03:05	OUTBD+	02:05-03:05	OUTBD+	01:15	3.5	03:05	3.7
			02:25-08:20	INBD -	02:25-03:30	INBD -	02:25	3.8	08:20	3.0
	08:06	3.0			07:35-08:20	INBD -	07:35	2.9	08:20	3.0
			07:50-09:25	OUTBD+	07:50-08:35	OUTBD+	07:50	2.9	09:25	3.3
	13:38	4.6	11:50-13:50	OUTBD+	13:05-13:50	OUTBD+	11:50	4.3	13:50	4.6
			13:25-14:35	INBD -	13:25-14:05	INBD -	13:25	4.7	14:35	4.4
	21:17	1.1	20:45-21:25	INBD -	21:00-21:25	INBD -	20:45	1.0	21:25	1.1
		21:10-22:00	OUTBD+	21:10-21:35	OUTBD+	21:10	1.0	22:00	1.3	
2015/12/22	03:59	4.1	02:50-04:15	OUTBD+	03:25-04:15	OUTBD+	02:50	4.0	04:15	4.1
			03:45-06:35	INBD -	03:45-04:40	INBD -	03:45	4.1	06:35	3.6
	09:16	3.2	07:55-09:30	INBD -	08:45-09:30	INBD -	07:55	3.2	09:30	3.2
			09:05-10:45	OUTBD+	09:05-09:45	OUTBD+	09:05	3.1	10:45	3.6
	14:25	4.6	11:45-14:40	OUTBD+	13:45-14:40	OUTBD+	11:45	4.0	14:40	4.6
			14:10-15:25	INBD -	14:10-14:55	INBD -	14:10	4.6	15:25	4.4
22:10	0.8	21:40-22:15	INBD -	21:55-22:15	INBD -	21:40	0.7	22:15	0.8	
		22:05-22:50	OUTBD+	22:05-22:25	OUTBD+	22:05	0.8	22:50	1.0	
2015/12/23	04:59	4.4	04:00-05:15	OUTBD+	04:30-05:15	OUTBD+	04:00	4.3	05:15	4.4
			04:45-07:10	INBD -	04:45-05:35	INBD -	04:45	4.4	07:10	3.9
	10:17	3.3	09:15-10:30	INBD -	09:50-10:30	INBD -	09:15	3.3	10:30	3.3
			10:05-15:30	OUTBD+	10:05-10:45	OUTBD+	10:05	3.3	15:30	4.5
	15:14	4.5			14:30-15:30	OUTBD+	14:30	4.5	15:30	4.5
			14:55-16:15	INBD -	14:55-15:45	INBD -	14:55	4.5	16:15	4.3
23:00	0.6	22:30-23:05	INBD -	22:45-23:05	INBD -	22:30	0.5	23:05	0.6	
		22:55-23:40	OUTBD+	22:55-23:15	OUTBD+	22:55	0.6	23:40	0.9	
2015/12/24	05:49	4.6	05:00-06:05	OUTBD+	05:25-06:05	OUTBD+	05:00	4.6	06:05	4.6
			05:40-07:45	INBD -	05:40-06:25	INBD -	05:40	4.6	07:45	4.2
	11:11	3.3	10:20-11:20	INBD -	10:50-11:20	INBD -	10:20	3.3	11:20	3.3
			11:00-16:20	OUTBD+	11:00-11:35	OUTBD+	11:00	3.3	16:20	4.4
	16:04	4.5			15:10-16:20	OUTBD+	15:10	4.4	16:20	4.4
			15:45-17:05	INBD -	15:45-16:35	INBD -	15:45	4.5	17:05	4.2
23:48	0.5	23:20-23:55	INBD -	23:35-23:55	INBD -	23:20	0.4	23:55	0.6	
		23:40-00:25	OUTBD+	23:40-00:05	OUTBD+	23:40	0.5	00:25	0.8	
2015/12/25	06:33	4.8	05:45-06:45	OUTBD+	06:10-06:45	OUTBD+	05:45	4.7	06:45	4.7
			06:20-08:15	INBD -	06:20-07:05	INBD -	06:20	4.8	08:15	4.4
	12:01	3.3	11:10-12:10	INBD -	11:40-12:10	INBD -	11:10	3.3	12:10	3.3
			11:50-17:10	OUTBD+	11:50-12:25	OUTBD+	11:50	3.3	17:10	4.3
	16:53	4.4			15:55-17:10	OUTBD+	15:55	4.3	17:10	4.3
		16:35-17:50	INBD -	16:35-17:25	INBD -	16:35	4.4	17:50	4.1	
2015/12/26	00:32	0.6	00:05-00:40	INBD -	00:20-00:40	INBD -	00:05	0.4	00:40	0.6
			00:25-01:10	OUTBD+	00:25-00:45	OUTBD+	00:25	0.5	01:10	0.8
	07:14	4.8	06:30-07:25	OUTBD+	06:50-07:25	OUTBD+	06:30	4.8	07:25	4.8
			07:05-08:35	INBD -	07:05-07:40	INBD -	07:05	4.8	08:35	4.5
	12:49	3.2	12:00-13:00	INBD -	12:25-13:00	INBD -	12:00	3.2	13:00	3.2
			12:40-17:55	OUTBD+	12:40-13:15	OUTBD+	12:40	3.2	17:55	4.2
17:38	4.2			16:40-17:55	OUTBD+	16:40	4.2	17:55	4.2	
		17:20-18:40	INBD -	17:20-18:10	INBD -	17:20	4.3	18:40	4.0	
2015/12/27	01:12	0.7	00:45-01:20	INBD -	01:00-01:20	INBD -	00:45	0.5	01:20	0.7
			01:05-01:45	OUTBD+	01:05-01:25	OUTBD+	01:05	0.6	01:45	0.9
	07:52	4.9	07:10-08:00	OUTBD+	07:30-08:00	OUTBD+	07:10	4.8	08:00	4.9
			07:45-09:00	INBD -	07:45-08:15	INBD -	07:45	4.9	09:00	4.6
	13:39	3.1	12:45-13:50	INBD -	13:15-13:50	INBD -	12:45	3.2	13:50	3.2
			13:30-18:40	OUTBD+	13:30-14:05	OUTBD+	13:30	3.1	18:40	4.0
18:22	4.1			17:25-18:40	OUTBD+	17:25	4.0	18:40	4.0	
		18:00-19:25	INBD -	18:00-18:55	INBD -	18:00	4.1	19:25	3.8	

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YYYY/MM/DD	OPERATIONAL TIME FRAME									
	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2015/12/28	01:49	0.8	01:20-01:55	INBD -	01:35-01:55	INBD -	01:20	0.7	01:55	0.8
			01:45-02:25	OUTBD+	01:45-02:05	OUTBD+	01:45	0.8	02:25	1.1
	08:30	4.9	07:45-08:40	OUTBD+	08:10-08:40	OUTBD+	07:45	4.8	08:40	4.8
			08:20-09:35	INBD -	08:20-08:55	INBD -	08:20	4.9	09:35	4.6
	14:31	3.0	13:35-14:45	INBD -	14:05-14:45	INBD -	13:35	3.1	14:45	3.0
			14:20-19:20	OUTBD+	14:20-15:05	OUTBD+	14:20	3.0	19:20	3.8
19:06	3.9	18:10-19:20	OUTBD+	18:10-19:20	OUTBD+	18:10	3.8	19:20	3.8	
		18:45-20:15	INBD -	18:45-19:40	INBD -	18:45	3.9	20:15	3.6	
2015/12/29	02:24	1.1	01:50-02:30	INBD -	02:10-02:30	INBD -	01:50	1.0	02:30	1.1
			02:15-03:05	OUTBD+	02:15-02:40	OUTBD+	02:15	1.0	03:05	1.3
	09:06	4.8	08:20-09:15	OUTBD+	08:45-09:15	OUTBD+	08:20	4.8	09:15	4.8
			08:55-10:10	INBD -	08:55-09:30	INBD -	08:55	4.8	10:10	4.6
	15:26	2.9	14:25-15:40	INBD -	14:55-15:40	INBD -	14:25	2.9	15:40	2.9
			15:10-20:10	OUTBD+	15:10-16:05	OUTBD+	15:10	2.9	20:10	3.6
19:53	3.6	18:55-20:10	OUTBD+	18:55-20:10	OUTBD+	18:55	3.6	20:10	3.6	
		19:30-21:10	INBD -	19:30-20:30	INBD -	19:30	3.6	21:10	3.4	
2015/12/30	02:57	1.4	02:10-03:05	INBD -	02:35-03:05	INBD -	02:10	1.3	03:05	1.4
			02:50-03:40	OUTBD+	02:50-03:15	OUTBD+	02:50	1.4	03:40	1.6
	09:42	4.8	08:50-09:55	OUTBD+	09:15-09:55	OUTBD+	08:50	4.7	09:55	4.7
			09:30-10:50	INBD -	09:30-10:10	INBD -	09:30	4.8	10:50	4.5
	16:24	2.7	15:15-16:40	INBD -	15:50-16:40	INBD -	15:15	2.8	16:40	2.7
			16:10-21:05	OUTBD+	16:10-17:10	OUTBD+	16:10	2.7	21:05	3.4
20:46	3.4	19:50-21:05	OUTBD+	19:50-21:05	OUTBD+	19:50	3.3	21:05	3.4	
		20:25-22:30	INBD -	20:25-21:30	INBD -	20:25	3.4	22:30	3.1	
2015/12/31	03:30	1.8	02:25-03:40	INBD -	03:05-03:40	INBD -	02:25	1.8	03:40	1.8
			03:20-04:25	OUTBD+	03:20-03:55	OUTBD+	03:20	1.7	04:25	2.0
	10:16	4.7	09:15-10:30	OUTBD+	09:45-10:30	OUTBD+	09:15	4.6	10:30	4.6
			10:05-11:30	INBD -	10:05-10:50	INBD -	10:05	4.7	11:30	4.4
	17:23	2.5	16:10-17:40	INBD -	16:50-17:40	INBD -	16:10	2.6	17:40	2.5
			17:05-18:10	OUTBD+	17:05-18:10	OUTBD+	17:05	2.5	18:10	2.6
17:05-22:20	OUTBD+	20:55-22:20	OUTBD+	17:05	2.5	22:20	3.2			