

PORT METRO VANCOUVER  
 SECOND NARROWS MRA STANDING ORDER  
 TRANSIT PERIODS - MRA VESSELS July 2010  
 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				
2010/07/01	03:58	2.8	02:00-04:30	INBD -	03:05-04:30	INBD -	02:00	3.0	04:30	2.9
			03:30-08:35	OUTBD+	03:30-05:15	OUTBD+	03:30	2.8	08:35	3.4
	08:11	3.4			06:55-08:35	OUTBD+	06:55	3.4	08:35	3.4
			07:40-10:05	INBD -	07:40-09:05	INBD -	07:40	3.4	10:05	2.9
	14:49	1.5	13:20-15:05	INBD -	14:10-15:05	INBD -	13:20	1.6	15:05	1.6
			14:30-16:05	OUTBD+	14:30-15:25	OUTBD+	14:30	1.5	16:05	1.9
2010/07/02	22:02	4.4	20:45-22:20	OUTBD+	21:25-22:20	OUTBD+	20:45	4.4	22:20	4.4
			21:45-23:30	INBD -	21:45-22:40	INBD -	21:45	4.5	23:30	4.0
2010/07/03	04:42	2.6	02:50-05:10	INBD -	03:50-05:10	INBD -	02:50	2.7	05:10	2.6
			04:15-09:40	OUTBD+	04:15-05:55	OUTBD+	04:15	2.6	09:40	3.2
	09:11	3.2			07:55-09:40	OUTBD+	07:55	3.2	09:40	3.2
			08:40-11:30	INBD -	08:40-10:10	INBD -	08:40	3.2	11:30	2.7
	15:22	1.9	13:25-15:40	INBD -	14:35-15:40	INBD -	13:25	2.1	15:40	1.9
			15:00-16:50	OUTBD+	15:00-16:05	OUTBD+	15:00	1.9	16:50	2.3
2010/07/04	22:27	4.4	21:05-22:45	OUTBD+	21:50-22:45	OUTBD+	21:05	4.3	22:45	4.3
			22:10-23:55	INBD -	22:10-23:05	INBD -	22:10	4.4	23:55	4.0
2010/07/03	05:26	2.3	03:35-05:55	INBD -	04:35-05:55	INBD -	03:35	2.5	05:55	2.4
			05:00-10:55	OUTBD+	05:00-06:35	OUTBD+	05:00	2.3	10:55	3.1
	10:24	3.1			09:05-10:55	OUTBD+	09:05	3.1	10:55	3.1
			09:50-16:20	INBD -	09:50-11:35	INBD -	09:50	3.1	16:20	2.3
	15:57	2.3			14:55-16:20	INBD -	14:55	2.3	16:20	2.3
			15:30-17:45	OUTBD+	15:30-16:50	OUTBD+	15:30	2.3	17:45	2.8
2010/07/04	22:53	4.3	21:15-23:10	OUTBD+	22:10-23:10	OUTBD+	21:15	4.2	23:10	4.3
			22:35-00:25	INBD -	22:35-23:35	INBD -	22:35	4.3	00:25	3.9
2010/07/04	06:12	2.0	04:25-06:40	INBD -	05:20-06:40	INBD -	04:25	2.2	06:40	2.1
			05:45-12:35	OUTBD+	05:45-07:15	OUTBD+	05:45	2.0	12:35	3.1
	11:53	3.1			10:35-12:35	OUTBD+	10:35	3.1	12:35	3.1
			11:15-17:10	INBD -	11:15-13:35	INBD -	11:15	3.1	17:10	2.7
	16:39	2.7			15:00-17:10	INBD -	15:00	2.8	17:10	2.7
			16:00-19:05	OUTBD+	16:00-17:45	OUTBD+	16:00	2.7	19:05	3.3
2010/07/04	23:20	4.2	21:20-23:40	OUTBD+	22:30-23:40	OUTBD+	21:20	4.0	23:40	4.2
			23:00-00:55	INBD -	23:00-00:05	INBD -	23:00	4.3	00:55	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 WATER TIMES	WATER HEIGHTS	2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW TIMES	END HGHTS
			PERIOD	TRANSIT	PERIOD	TRANSIT				
2010/07/05	06:58	1.8	05:15-07:20	INBD -	06:10-07:20	INBD -	05:15	1.9	07:20	1.8
			06:35-14:30	OUTBD+	06:35-07:50	OUTBD+	06:35	1.7	14:30	3.3
	13:35	3.3			12:15-14:30	OUTBD+	12:15	3.2	14:30	3.3
	17:32	3.1	12:55-18:15	INBD -	12:55-18:15	INBD -	12:55	3.3	18:15	3.1
			16:40-00:15	OUTBD+	16:40-18:55	OUTBD+	16:40	3.1	00:15	4.1
	23:50	4.2			22:55-00:15	OUTBD+	22:55	4.2	00:15	4.1
			23:25-01:30	INBD -	23:25-00:40	INBD -	23:25	4.2	01:30	3.7
2010/07/06	07:44	1.5	06:10-08:05	INBD -	07:00-08:05	INBD -	06:10	1.6	08:05	1.5
			07:25-09:35	OUTBD+	07:25-08:30	OUTBD+	07:25	1.5	09:35	2.0
	15:08	3.6	12:30-16:10	OUTBD+	13:50-16:10	OUTBD+	12:30	3.2	16:10	3.5
	18:45	3.4	14:30-19:35	INBD -	14:30-19:35	INBD -	14:30	3.6	19:35	3.4
			17:35-00:50	OUTBD+	17:35-20:25	OUTBD+	17:35	3.4	00:50	4.1
	00:26	4.2			23:15-00:50	OUTBD+	23:15	4.1	00:50	4.1
			23:55-02:10	INBD -	23:55-01:15	INBD -	23:55	4.2	02:10	3.7
2010/07/07	08:31	1.2	07:10-08:50	INBD -	07:55-08:50	INBD -	07:10	1.3	08:50	1.3
			08:15-10:00	OUTBD+	08:15-09:10	OUTBD+	08:15	1.2	10:00	1.7
	16:17	3.9	14:10-17:05	OUTBD+	15:10-17:05	OUTBD+	14:10	3.7	17:05	3.8
	20:10	3.5	15:45-20:55	INBD -	15:45-20:55	INBD -	15:45	3.9	20:55	3.6
			19:15-01:35	OUTBD+	19:15-21:55	OUTBD+	19:15	3.6	01:35	4.1
	01:09	4.2			23:50-01:35	OUTBD+	23:50	4.1	01:35	4.1
2010/07/08			00:40-02:50	INBD -	00:40-02:00	INBD -	00:40	4.2	02:50	3.7
	09:17	0.9	08:05-09:35	INBD -	08:45-09:35	INBD -	08:05	1.0	09:35	1.0
			09:00-10:30	OUTBD+	09:00-09:50	OUTBD+	09:00	0.9	10:30	1.3
	17:08	4.1	15:25-17:40	OUTBD+	16:15-17:40	OUTBD+	15:25	4.0	17:40	4.1
			16:40-22:10	INBD -	16:40-18:55	INBD -	16:40	4.2	22:10	3.7
	21:27	3.6			19:25-22:10	INBD -	19:25	3.8	22:10	3.7
			20:45-02:25	OUTBD+	20:45-23:05	OUTBD+	20:45	3.6	02:25	4.2
2010/07/09	02:00	4.2			00:45-02:25	OUTBD+	00:45	4.2	02:25	4.2
			01:30-03:35	INBD -	01:30-02:50	INBD -	01:30	4.2	03:35	3.8
	10:04	0.6	09:00-10:15	INBD -	09:35-10:15	INBD -	09:00	0.7	10:15	0.7
			09:50-11:05	OUTBD+	09:50-10:35	OUTBD+	09:50	0.6	11:05	1.0
	17:51	4.3	16:25-18:15	OUTBD+	17:05-18:15	OUTBD+	16:25	4.2	18:15	4.3
			17:30-23:05	INBD -	17:30-18:50	INBD -	17:30	4.4	23:05	3.7
	22:30	3.6			21:15-23:05	INBD -	21:15	3.7	23:05	3.7
			21:55-03:15	OUTBD+	21:55-23:50	OUTBD+	21:55	3.6	03:15	4.2
2010/07/10	02:56	4.3			01:50-03:15	OUTBD+	01:50	4.3	03:15	4.2
			02:30-04:20	INBD -	02:30-03:40	INBD -	02:30	4.3	04:20	3.9
	10:50	0.4	09:55-11:00	INBD -	10:25-11:00	INBD -	09:55	0.4	11:00	0.4
			10:40-11:45	OUTBD+	10:40-11:15	OUTBD+	10:40	0.4	11:45	0.7
	18:30	4.5	17:15-18:50	OUTBD+	17:55-18:50	OUTBD+	17:15	4.4	18:50	4.4
			18:10-23:55	INBD -	18:10-19:15	INBD -	18:10	4.5	23:55	3.6
	23:26	3.6			22:25-23:55	INBD -	22:25	3.6	23:55	3.6
			23:00-04:10	OUTBD+	23:00-00:30	OUTBD+	23:00	3.5	04:10	4.3

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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				
2010/07/11	03:53	4.3			03:00-04:10	OUTBD+	03:00	4.3	04:10	4.3
			03:30-05:10	INBD -	03:30-04:30	INBD -	03:30	4.4	05:10	3.9
	11:36	0.3	10:45-11:45	INBD -	11:10-11:45	INBD -	10:45	0.3	11:45	0.3
			11:25-12:25	OUTBD+	11:25-12:00	OUTBD+	11:25	0.2	12:25	0.6
	19:07	4.5	18:00-19:25	OUTBD+	18:35-19:25	OUTBD+	18:00	4.5	19:25	4.5
			18:50-20:50	INBD -	18:50-19:45	INBD -	18:50	4.6	20:50	4.1
00:18	3.4	22:20-00:40	INBD -	23:30-00:40	INBD -	22:20	3.6	00:40	3.5	
		23:55-05:10	OUTBD+	23:55-01:10	OUTBD+	23:55	3.4	05:10	4.3	
2010/07/12	04:52	4.3			04:10-05:10	OUTBD+	04:10	4.4	05:10	4.3
			04:35-06:00	INBD -	04:35-05:25	INBD -	04:35	4.4	06:00	4.0
	12:21	0.2	11:30-12:30	INBD -	12:00-12:30	INBD -	11:30	0.2	12:30	0.3
			12:10-13:10	OUTBD+	12:10-12:45	OUTBD+	12:10	0.2	13:10	0.6
	19:43	4.6	18:45-19:55	OUTBD+	19:15-19:55	OUTBD+	18:45	4.6	19:55	4.6
			19:30-21:00	INBD -	19:30-20:15	INBD -	19:30	4.7	21:00	4.3
01:09	3.2	23:35-01:30	INBD -	00:25-01:30	INBD -	23:35	3.3	01:30	3.3	
2010/07/13			00:50-03:20	OUTBD+	00:50-01:55	OUTBD+	00:50	3.2	03:20	3.9
	05:51	4.2	03:55-06:05	OUTBD+	05:15-06:05	OUTBD+	03:55	4.0	06:05	4.2
			05:35-06:55	INBD -	05:35-06:25	INBD -	05:35	4.3	06:55	3.9
	13:05	0.4	12:15-13:15	INBD -	12:45-13:15	INBD -	12:15	0.4	13:15	0.4
			12:55-13:55	OUTBD+	12:55-13:30	OUTBD+	12:55	0.3	13:55	0.7
	20:18	4.7	19:25-20:30	OUTBD+	19:50-20:30	OUTBD+	19:25	4.7	20:30	4.7
		20:05-21:25	INBD -	20:05-20:45	INBD -	20:05	4.7	21:25	4.4	
2010/07/14	02:01	2.9	00:40-02:20	INBD -	01:25-02:20	INBD -	00:40	3.0	02:20	3.0
			01:45-03:40	OUTBD+	01:45-02:40	OUTBD+	01:45	2.9	03:40	3.4
	06:53	4.1	05:20-07:10	OUTBD+	06:15-07:10	OUTBD+	05:20	4.0	07:10	4.0
			06:35-08:00	INBD -	06:35-07:25	INBD -	06:35	4.1	08:00	3.7
	13:49	0.6	13:00-14:00	INBD -	13:25-14:00	INBD -	13:00	0.6	14:00	0.7
			13:40-14:40	OUTBD+	13:40-14:10	OUTBD+	13:40	0.6	14:40	1.0
20:52	4.8	20:00-21:05	OUTBD+	20:25-21:05	OUTBD+	20:00	4.8	21:05	4.7	
		20:40-21:55	INBD -	20:40-21:20	INBD -	20:40	4.8	21:55	4.4	
2010/07/15	02:54	2.6	01:40-03:10	INBD -	02:20-03:10	INBD -	01:40	2.6	03:10	2.6
			02:40-04:25	OUTBD+	02:40-03:30	OUTBD+	02:40	2.5	04:25	3.0
	07:58	3.9	06:30-08:15	OUTBD+	07:20-08:15	OUTBD+	06:30	3.7	08:15	3.8
			07:40-09:05	INBD -	07:40-08:30	INBD -	07:40	3.9	09:05	3.5
	14:33	1.1	13:35-14:45	INBD -	14:05-14:45	INBD -	13:35	1.1	14:45	1.1
			14:20-15:25	OUTBD+	14:20-15:00	OUTBD+	14:20	1.0	15:25	1.4
21:26	4.8	20:30-21:40	OUTBD+	21:00-21:40	OUTBD+	20:30	4.8	21:40	4.7	
		21:15-22:25	INBD -	21:15-21:55	INBD -	21:15	4.8	22:25	4.5	

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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				
2010/07/16	03:49	2.2	02:40-04:05	INBD -	03:15-04:05	INBD -	02:40	2.2	04:05	2.2
			03:35-05:15	OUTBD+	03:35-04:25	OUTBD+	03:35	2.1	05:15	2.6
	09:09	3.6	07:40-09:25	OUTBD+	08:30-09:25	OUTBD+	07:40	3.5	09:25	3.6
			08:50-10:25	INBD -	08:50-09:45	INBD -	08:50	3.7	10:25	3.3
	15:18	1.6	14:10-15:30	INBD -	14:45-15:30	INBD -	14:10	1.6	15:30	1.7
			15:05-16:20	OUTBD+	15:05-15:50	OUTBD+	15:05	1.6	16:20	2.0
21:59	4.8		21:00-22:10	OUTBD+	21:30-22:10	OUTBD+	21:00	4.8	22:10	4.7
			21:45-23:00	INBD -	21:45-22:30	INBD -	21:45	4.8	23:00	4.4
2010/07/17	04:45	1.8	03:35-05:00	INBD -	04:10-05:00	INBD -	03:35	1.9	05:00	1.8
			04:30-06:10	OUTBD+	04:30-05:20	OUTBD+	04:30	1.8	06:10	2.2
	10:30	3.5	08:55-10:50	OUTBD+	09:50-10:50	OUTBD+	08:55	3.3	10:50	3.5
			10:10-12:10	INBD -	10:10-11:10	INBD -	10:10	3.5	12:10	3.1
	16:06	2.2	14:30-16:25	INBD -	15:25-16:25	INBD -	14:30	2.3	16:25	2.3
			15:50-17:25	OUTBD+	15:50-16:45	OUTBD+	15:50	2.2	17:25	2.6
22:34	4.7		21:25-22:50	OUTBD+	22:00-22:50	OUTBD+	21:25	4.6	22:50	4.6
			22:20-23:40	INBD -	22:20-23:05	INBD -	22:20	4.7	23:40	4.3
2010/07/18	05:43	1.5	04:30-06:00	INBD -	05:10-06:00	INBD -	04:30	1.5	06:00	1.5
			05:25-07:05	OUTBD+	05:25-06:20	OUTBD+	05:25	1.4	07:05	1.9
	12:03	3.5	10:20-12:30	OUTBD+	11:15-12:30	OUTBD+	10:20	3.3	12:30	3.5
			11:40-17:25	INBD -	11:40-13:00	INBD -	11:40	3.5	17:25	2.8
	17:01	2.8			16:05-17:25	INBD -	16:05	2.7	17:25	2.8
			16:35-18:50	OUTBD+	16:35-17:50	OUTBD+	16:35	2.7	18:50	3.3
23:10	4.5		21:35-23:25	OUTBD+	22:30-23:25	OUTBD+	21:35	4.4	23:25	4.5
			22:55-00:25	INBD -	22:55-23:45	INBD -	22:55	4.5	00:25	4.1
2010/07/19	06:42	1.2	05:30-07:00	INBD -	06:10-07:00	INBD -	05:30	1.3	07:00	1.3
			06:25-08:05	OUTBD+	06:25-07:20	OUTBD+	06:25	1.2	08:05	1.7
	13:46	3.7	11:55-14:20	OUTBD+	12:50-14:20	OUTBD+	11:55	3.5	14:20	3.6
			13:20-18:45	INBD -	13:20-15:10	INBD -	13:20	3.7	18:45	3.3
	18:11	3.2			16:40-18:45	INBD -	16:40	3.3	18:45	3.3
			17:35-00:10	OUTBD+	17:35-19:20	OUTBD+	17:35	3.2	00:10	4.3
23:50	4.3				23:00-00:10	OUTBD+	23:00	4.3	00:10	4.3
			23:25-01:15	INBD -	23:25-00:30	INBD -	23:25	4.4	01:15	3.9
2010/07/20	07:41	1.1	06:30-07:55	INBD -	07:05-07:55	INBD -	06:30	1.1	07:55	1.1
			07:25-09:00	OUTBD+	07:25-08:15	OUTBD+	07:25	1.0	09:00	1.5
	15:19	3.9	13:30-15:55	OUTBD+	14:25-15:55	OUTBD+	13:30	3.8	15:55	3.9
			14:50-20:20	INBD -	14:50-17:15	INBD -	14:50	4.0	20:20	3.5
	19:41	3.5			17:30-20:20	INBD -	17:30	3.6	20:20	3.5
			19:00-01:00	OUTBD+	19:00-21:15	OUTBD+	19:00	3.5	01:00	4.1
00:35	4.2			23:25-01:00	OUTBD+	23:25	4.1	01:00	4.1	

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	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2010/07/21			00:05-02:10	INBD -	00:05-01:25	INBD -	00:05	4.2	02:10	3.8
	08:37	1.0	07:25-08:50	INBD -	08:05-08:50	INBD -	07:25	1.0	08:50	1.0
			08:20-09:50	OUTBD+	08:20-09:10	OUTBD+	08:20	0.9	09:50	1.3
	16:28	4.2	14:50-17:00	OUTBD+	15:40-17:00	OUTBD+	14:50	4.1	17:00	4.1
			16:05-22:00	INBD -	16:05-17:45	INBD -	16:05	4.2	22:00	3.7
	21:14	3.6			19:35-22:00	INBD -	19:35	3.6	22:00	3.7
01:27	4.0		20:35-01:55	OUTBD+	20:35-01:55	OUTBD+	20:35	3.5	01:55	4.0
2010/07/22			00:55-03:10	INBD -	00:55-02:20	INBD -	00:55	4.1	03:10	3.6
	09:29	0.9	08:20-09:45	INBD -	09:00-09:45	INBD -	08:20	0.9	09:45	0.9
			09:15-10:35	OUTBD+	09:15-10:00	OUTBD+	09:15	0.8	10:35	1.2
	17:20	4.3	15:50-17:45	OUTBD+	16:35-17:45	OUTBD+	15:50	4.2	17:45	4.2
			17:00-23:10	INBD -	17:00-18:20	INBD -	17:00	4.3	23:10	3.6
	22:29	3.5			21:10-23:10	INBD -	21:10	3.5	23:10	3.6
02:23	4.0		21:50-02:50	OUTBD+	21:50-02:50	OUTBD+	21:50	3.5	02:50	3.9
2010/07/23			01:50-04:05	INBD -	01:50-03:15	INBD -	01:50	4.0	04:05	3.6
	10:17	0.8	09:10-10:30	INBD -	09:45-10:30	INBD -	09:10	0.9	10:30	0.9
			10:05-11:20	OUTBD+	10:05-10:45	OUTBD+	10:05	0.8	11:20	1.1
	18:01	4.3	16:40-18:25	OUTBD+	17:20-18:25	OUTBD+	16:40	4.3	18:25	4.3
			17:40-00:00	INBD -	17:40-18:50	INBD -	17:40	4.4	00:00	3.6
	23:24	3.5			22:15-00:00	INBD -	22:15	3.4	00:00	3.6
03:19	4.0		22:50-03:45	OUTBD+	22:50-03:45	OUTBD+	22:50	3.4	03:45	3.9
2010/07/24			02:45-04:55	INBD -	02:45-04:10	INBD -	02:45	4.0	04:55	3.6
	10:59	0.8	09:55-11:15	INBD -	10:30-11:15	INBD -	09:55	0.8	11:15	0.8
			10:45-12:00	OUTBD+	10:45-11:30	OUTBD+	10:45	0.8	12:00	1.1
	18:36	4.4	17:20-18:55	OUTBD+	18:00-18:55	OUTBD+	17:20	4.4	18:55	4.3
			18:20-21:00	INBD -	18:20-19:20	INBD -	18:20	4.4	21:00	3.8
	00:08	3.4	21:15-00:40	INBD -	23:05-00:40	INBD -	21:15	3.7	00:40	3.5
		23:40-04:35	OUTBD+	23:40-01:30	OUTBD+	23:40	3.3	04:35	3.9	
2010/07/25	04:10	4.0			02:55-04:35	OUTBD+	02:55	3.9	04:35	3.9
			03:40-05:40	INBD -	03:40-04:55	INBD -	03:40	4.0	05:40	3.6
	11:38	0.8	10:35-11:50	INBD -	11:10-11:50	INBD -	10:35	0.9	11:50	0.8
			11:25-12:40	OUTBD+	11:25-12:05	OUTBD+	11:25	0.8	12:40	1.1
	19:06	4.4	17:55-19:25	OUTBD+	18:30-19:25	OUTBD+	17:55	4.4	19:25	4.3
			18:50-20:55	INBD -	18:50-19:45	INBD -	18:50	4.4	20:55	4.0
00:46	3.3	22:35-01:15	INBD -	23:50-01:15	INBD -	22:35	3.4	01:15	3.4	
2010/07/26			00:20-05:20	OUTBD+	00:20-01:55	OUTBD+	00:20	3.2	05:20	3.9
	04:58	4.0			03:55-05:20	OUTBD+	03:55	3.9	05:20	3.9
			04:35-06:30	INBD -	04:35-05:45	INBD -	04:35	4.0	06:30	3.6
	12:13	0.9	11:10-12:25	INBD -	11:45-12:25	INBD -	11:10	0.9	12:25	0.9
			12:00-13:15	OUTBD+	12:00-12:40	OUTBD+	12:00	0.8	13:15	1.2
	19:33	4.4	18:25-19:50	OUTBD+	19:00-19:50	OUTBD+	18:25	4.4	19:50	4.4
		19:15-21:05	INBD -	19:15-20:10	INBD -	19:15	4.4	21:05	4.0	
01:22	3.1	23:25-01:50	INBD -	00:30-01:50	INBD -	23:25	3.2	01:50	3.2	

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

OPERATIONAL TIME FRAME

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				
2010/07/27			00:55-06:05	OUTBD+	00:55-02:25	OUTBD+	00:55	3.0	06:05	3.9
	05:45	3.9			04:45-06:05	OUTBD+	04:45	3.9	06:05	3.9
			05:20-07:15	INBD -	05:20-06:30	INBD -	05:20	3.9	07:15	3.5
	12:46	1.0	11:40-13:00	INBD -	12:15-13:00	INBD -	11:40	1.1	13:00	1.0
			12:30-13:50	OUTBD+	12:30-13:15	OUTBD+	12:30	1.0	13:50	1.4
	19:58	4.4	18:50-20:15	OUTBD+	19:25-20:15	OUTBD+	18:50	4.4	20:15	4.3
		19:40-21:25	INBD -	19:40-20:35	INBD -	19:40	4.4	21:25	4.0	
2010/07/28	01:56	2.9	00:10-02:20	INBD -	01:10-02:20	INBD -	00:10	3.0	02:20	3.0
			01:35-06:50	OUTBD+	01:35-02:55	OUTBD+	01:35	2.9	06:50	3.8
	06:31	3.8			05:35-06:50	OUTBD+	05:35	3.8	06:50	3.8
			06:10-08:00	INBD -	06:10-07:15	INBD -	06:10	3.8	08:00	3.4
	13:17	1.2	12:05-13:30	INBD -	12:45-13:30	INBD -	12:05	1.3	13:30	1.3
			13:05-14:25	OUTBD+	13:05-13:50	OUTBD+	13:05	1.2	14:25	1.6
20:20	4.4	19:10-20:35	OUTBD+	19:45-20:35	OUTBD+	19:10	4.4	20:35	4.3	
		20:05-21:40	INBD -	20:05-20:55	INBD -	20:05	4.4	21:40	4.0	
2010/07/29	02:30	2.7	00:50-02:55	INBD -	01:45-02:55	INBD -	00:50	2.8	02:55	2.8
			02:10-07:40	OUTBD+	02:10-03:25	OUTBD+	02:10	2.7	07:40	3.6
	07:18	3.7			06:25-07:40	OUTBD+	06:25	3.7	07:40	3.6
			06:55-08:50	INBD -	06:55-08:05	INBD -	06:55	3.7	08:50	3.3
	13:47	1.5	12:30-14:05	INBD -	13:10-14:05	INBD -	12:30	1.6	14:05	1.5
			13:30-15:00	OUTBD+	13:30-14:20	OUTBD+	13:30	1.5	15:00	1.9
20:41	4.4	19:30-20:55	OUTBD+	20:05-20:55	OUTBD+	19:30	4.3	20:55	4.3	
		20:25-22:00	INBD -	20:25-21:15	INBD -	20:25	4.4	22:00	4.0	
2010/07/30	03:05	2.5	01:30-03:25	INBD -	02:20-03:25	INBD -	01:30	2.6	03:25	2.5
			02:45-08:30	OUTBD+	02:45-03:55	OUTBD+	02:45	2.4	08:30	3.5
	08:09	3.6			07:15-08:30	OUTBD+	07:15	3.6	08:30	3.5
			07:45-09:55	INBD -	07:45-08:55	INBD -	07:45	3.6	09:55	3.1
	14:17	1.8	12:45-14:35	INBD -	13:40-14:35	INBD -	12:45	2.0	14:35	1.9
			14:00-15:40	OUTBD+	14:00-14:55	OUTBD+	14:00	1.8	15:40	2.3
21:02	4.3	19:45-21:20	OUTBD+	20:25-21:20	OUTBD+	19:45	4.3	21:20	4.3	
		20:45-22:20	INBD -	20:45-21:40	INBD -	20:45	4.4	22:20	4.0	
2010/07/31	03:41	2.2	02:10-04:05	INBD -	02:55-04:05	INBD -	02:10	2.4	04:05	2.3
			03:20-09:30	OUTBD+	03:20-04:30	OUTBD+	03:20	2.2	09:30	3.4
	09:04	3.4			08:10-09:30	OUTBD+	08:10	3.4	09:30	3.4
			08:40-11:20	INBD -	08:40-09:55	INBD -	08:40	3.5	11:20	2.9
	14:48	2.2	12:45-15:10	INBD -	14:00-15:10	INBD -	12:45	2.4	15:10	2.2
			14:25-16:25	OUTBD+	14:25-15:30	OUTBD+	14:25	2.2	16:25	2.7
21:23	4.3	19:55-21:40	OUTBD+	20:45-21:40	OUTBD+	19:55	4.2	21:40	4.3	
		21:05-22:45	INBD -	21:05-22:00	INBD -	21:05	4.3	22:45	3.9	

PORT METRO VANCOUVER  
 SECOND NARROWS MRA STANDING ORDER  
 TRANSIT PERIODS - MRA VESSELS August 2010  
 TIME IN PACIFIC STANDARD TIME ( ZONE +8 )  
 TIDE HEIGHTS IN METRES ABOVE CHART DATUM

OPERATIONAL TIME FRAME

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				
2010/08/01	04:20	2.0	02:50-04:40	INBD -	03:35-04:40	INBD -	02:50	2.1	04:40	2.1
			04:00-06:40	OUTBD+	04:00-05:10	OUTBD+	04:00	2.0	06:40	2.7
	10:09	3.4	07:30-10:40	OUTBD+	09:10-10:40	OUTBD+	07:30	3.0	10:40	3.3
			09:40-15:50	INBD -	09:40-11:15	INBD -	09:40	3.4	15:50	2.6
	15:22	2.6			14:20-15:50	INBD -	14:20	2.6	15:50	2.6
			14:55-17:25	OUTBD+	14:55-16:15	OUTBD+	14:55	2.5	17:25	3.1
21:45	4.3	20:00-22:05	OUTBD+	21:00-22:05	OUTBD+	20:00	4.1	22:05	4.2	
		21:25-23:15	INBD -	21:25-22:25	INBD -	21:25	4.3	23:15	3.8	
2010/08/02	05:04	1.8	03:30-05:25	INBD -	04:20-05:25	INBD -	03:30	1.9	05:25	1.9
			04:45-07:15	OUTBD+	04:45-05:55	OUTBD+	04:45	1.8	07:15	2.4
	11:28	3.4	08:50-12:05	OUTBD+	10:20-12:05	OUTBD+	08:50	3.0	12:05	3.4
			10:55-16:35	INBD -	10:55-13:15	INBD -	10:55	3.4	16:35	3.0
	16:01	2.9			14:15-16:35	INBD -	14:15	3.0	16:35	3.0
			15:20-22:35	OUTBD+	15:20-17:10	OUTBD+	15:20	2.9	22:35	4.1
22:12	4.2			21:20-22:35	OUTBD+	21:20	4.2	22:35	4.1	
		21:50-23:50	INBD -	21:50-23:00	INBD -	21:50	4.2	23:50	3.7	
2010/08/03	05:55	1.6	04:20-06:15	INBD -	05:10-06:15	INBD -	04:20	1.7	06:15	1.7
			05:35-07:55	OUTBD+	05:35-06:45	OUTBD+	05:35	1.6	07:55	2.2
	13:04	3.5	10:20-14:00	OUTBD+	11:45-14:00	OUTBD+	10:20	3.1	14:00	3.5
			12:25-17:40	INBD -	12:25-17:40	INBD -	12:25	3.5	17:40	3.3
	16:52	3.3			15:50-18:30	OUTBD+	15:50	3.3	23:10	4.1
			22:46	4.1			21:40-23:10	OUTBD+	21:40	4.1
		22:15-00:35	INBD -		22:15-23:40	INBD -	22:15	4.2	00:35	3.7
2010/08/04	06:52	1.4	05:20-07:15	INBD -	06:10-07:15	INBD -	05:20	1.5	07:15	1.5
			06:30-08:40	OUTBD+	06:30-07:40	OUTBD+	06:30	1.4	08:40	2.0
	14:40	3.8	12:00-16:15	OUTBD+	13:20-16:15	OUTBD+	12:00	3.4	16:15	3.6
			18:10	3.5	14:00-19:05	INBD -	14:00-19:05	INBD -	14:00	3.8
			16:25-00:00		OUTBD+	16:25-20:15	OUTBD+	16:25	3.6	00:00
	23:32	4.1			22:00-00:00	OUTBD+	22:00	4.0	00:00	4.0
				23:00-01:25	INBD -	23:00-00:30	INBD -	23:00	4.1	01:25

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 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

OPERATIONAL TIME FRAME

YYYY/MM/DD	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW END TIMES	END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2010/08/05	07:51	1.2	06:25-08:10	INBD -	07:10-08:10	INBD -	06:25	1.3	08:10	1.3
			07:30-09:20	OUTBD+	07:30-08:30	OUTBD+	07:30	1.2	09:20	1.7
	15:50	4.0	13:40-16:40	OUTBD+	14:40-16:40	OUTBD+	13:40	3.7	16:40	3.9
	19:45	3.6	15:15-20:40	INBD -	15:15-20:40	INBD -	15:15	4.0	20:40	3.7
			18:45-01:00	OUTBD+	18:45-22:00	OUTBD+	18:45	3.7	01:00	4.0
	00:33	4.1			22:45-01:00	OUTBD+	22:45	4.0	01:00	4.0
2010/08/06			00:00-02:20	INBD -	00:00-01:30	INBD -	00:00	4.1	02:20	3.6
	08:48	1.0	07:35-09:05	INBD -	08:15-09:05	INBD -	07:35	1.0	09:05	1.0
			08:30-10:05	OUTBD+	08:30-09:20	OUTBD+	08:30	0.9	10:05	1.4
	16:39	4.2	14:55-17:10	OUTBD+	15:45-17:10	OUTBD+	14:55	4.0	17:10	4.1
			16:10-21:45	INBD -	16:10-18:05	INBD -	16:10	4.2	21:45	3.7
	21:07	3.6			19:25-21:45	INBD -	19:25	3.7	21:45	3.7
			20:25-02:05	OUTBD+	20:25-22:40	OUTBD+	20:25	3.6	02:05	4.1
2010/08/07	01:43	4.1			00:30-02:05	OUTBD+	00:30	4.1	02:05	4.1
			01:15-03:15	INBD -	01:15-02:30	INBD -	01:15	4.2	03:15	3.7
	09:41	0.7	08:40-09:55	INBD -	09:10-09:55	INBD -	08:40	0.7	09:55	0.8
			09:30-10:45	OUTBD+	09:30-10:10	OUTBD+	09:30	0.7	10:45	1.1
	17:18	4.3	15:55-17:40	OUTBD+	16:35-17:40	OUTBD+	15:55	4.2	17:40	4.3
		17:00-22:40	INBD -	17:00-18:10	INBD -	17:00	4.3	22:40	3.5	
	22:11	3.5			21:05-22:40	INBD -	21:05	3.5	22:40	3.5
			21:40-03:10	OUTBD+	21:40-23:15	OUTBD+	21:40	3.5	03:10	4.2
2010/08/08	02:52	4.2			02:00-03:10	OUTBD+	02:00	4.3	03:10	4.2
			02:30-04:10	INBD -	02:30-03:30	INBD -	02:30	4.3	04:10	3.8
	10:31	0.5	09:35-10:40	INBD -	10:05-10:40	INBD -	09:35	0.5	10:40	0.6
			10:20-11:25	OUTBD+	10:20-10:55	OUTBD+	10:20	0.5	11:25	0.8
	17:53	4.4	16:45-18:10	OUTBD+	17:20-18:10	OUTBD+	16:45	4.4	18:10	4.4
		17:35-19:35	INBD -	17:35-18:30	INBD -	17:35	4.5	19:35	4.0	
23:05	3.3	21:05-23:30	INBD -	22:15-23:30	INBD -	21:05	3.6	23:30	3.4	
		22:45-04:15	OUTBD+	22:45-23:55	OUTBD+	22:45	3.3	04:15	4.2	
2010/08/09	03:57	4.3			03:15-04:15	OUTBD+	03:15	4.3	04:15	4.2
			03:40-05:05	INBD -	03:40-04:30	INBD -	03:40	4.3	05:05	3.9
	11:17	0.5	10:25-11:30	INBD -	10:55-11:30	INBD -	10:25	0.5	11:30	0.5
			11:05-12:10	OUTBD+	11:05-11:40	OUTBD+	11:05	0.4	12:10	0.8
	18:27	4.5	17:25-18:40	OUTBD+	18:00-18:40	OUTBD+	17:25	4.5	18:40	4.5
		18:15-19:40	INBD -	18:15-19:00	INBD -	18:15	4.5	19:40	4.2	
23:56	3.0	22:30-00:15	INBD -	23:15-00:15	INBD -	22:30	3.1	00:15	3.1	
		23:40-01:30	OUTBD+	23:40-00:35	OUTBD+	23:40	3.0	01:30	3.5	

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 TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

OPERATIONAL TIME FRAME

YYYY/MM/DD	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW END TIMES	END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2010/08/10	05:00	4.3	03:35-05:15	OUTBD+	04:25-05:15	OUTBD+	03:35	4.2	05:15	4.3
			04:45-06:00	INBD -	04:45-05:30	INBD -	04:45	4.3	06:00	4.0
	12:03	0.5	11:15-12:10	INBD -	11:40-12:10	INBD -	11:15	0.5	12:10	0.6
			11:55-12:50	OUTBD+	11:55-12:25	OUTBD+	11:55	0.5	12:50	0.8
	18:59	4.6	18:05-19:10	OUTBD+	18:35-19:10	OUTBD+	18:05	4.6	19:10	4.6
		18:50-20:00	INBD -	18:50-19:25	INBD -	18:50	4.6	20:00	4.3	
	00:45	2.6	23:35-01:00	INBD -	00:10-01:00	INBD -	23:35	2.7	01:00	2.7
2010/08/11			00:30-02:00	OUTBD+	00:30-01:20	OUTBD+	00:30	2.6	02:00	3.1
	06:02	4.2	04:50-06:15	OUTBD+	05:30-06:15	OUTBD+	04:50	4.2	06:15	4.2
			05:50-07:00	INBD -	05:50-06:30	INBD -	05:50	4.3	07:00	3.9
	12:47	0.8	11:55-12:55	INBD -	12:25-12:55	INBD -	11:55	0.8	12:55	0.8
			12:35-13:35	OUTBD+	12:35-13:10	OUTBD+	12:35	0.7	13:35	1.1
19:32	4.7	18:40-19:45	OUTBD+	19:05-19:45	OUTBD+	18:40	4.7	19:45	4.6	
		19:20-20:30	INBD -	19:20-19:55	INBD -	19:20	4.7	20:30	4.4	
2010/08/12	01:34	2.2	00:30-01:50	INBD -	01:05-01:50	INBD -	00:30	2.3	01:50	2.3
			01:20-02:40	OUTBD+	01:20-02:05	OUTBD+	01:20	2.2	02:40	2.6
	07:05	4.1	06:00-07:20	OUTBD+	06:35-07:20	OUTBD+	06:00	4.1	07:20	4.1
			06:50-08:05	INBD -	06:50-07:35	INBD -	06:50	4.2	08:05	3.8
	13:30	1.2	12:35-13:40	INBD -	13:05-13:40	INBD -	12:35	1.2	13:40	1.2
		13:20-14:20	OUTBD+	13:20-13:55	OUTBD+	13:20	1.1	14:20	1.5	
20:04	4.7	19:10-20:15	OUTBD+	19:40-20:15	OUTBD+	19:10	4.8	20:15	4.7	
		19:55-21:00	INBD -	19:55-20:30	INBD -	19:55	4.8	21:00	4.4	
2010/08/13	02:23	1.9	01:25-02:35	INBD -	01:55-02:35	INBD -	01:25	1.9	02:35	1.9
			02:10-03:25	OUTBD+	02:10-02:50	OUTBD+	02:10	1.8	03:25	2.2
	08:09	4.0	07:05-08:25	OUTBD+	07:40-08:25	OUTBD+	07:05	3.9	08:25	3.9
			07:55-09:15	INBD -	07:55-08:40	INBD -	07:55	4.0	09:15	3.6
	14:14	1.7	13:15-14:25	INBD -	13:45-14:25	INBD -	13:15	1.6	14:25	1.7
		14:00-15:15	OUTBD+	14:00-14:40	OUTBD+	14:00	1.6	15:15	2.1	
20:36	4.7	19:40-20:50	OUTBD+	20:10-20:50	OUTBD+	19:40	4.7	20:50	4.7	
		20:25-21:30	INBD -	20:25-21:00	INBD -	20:25	4.8	21:30	4.4	
2010/08/14	03:13	1.5	02:15-03:25	INBD -	02:45-03:25	INBD -	02:15	1.6	03:25	1.6
			03:00-04:15	OUTBD+	03:00-03:40	OUTBD+	03:00	1.5	04:15	1.9
	09:18	3.8	08:05-09:35	OUTBD+	08:45-09:35	OUTBD+	08:05	3.8	09:35	3.8
			09:05-10:35	INBD -	09:05-09:50	INBD -	09:05	3.9	10:35	3.5
	15:00	2.2	13:45-15:15	INBD -	14:25-15:15	INBD -	13:45	2.2	15:15	2.3
		14:45-16:10	OUTBD+	14:45-15:35	OUTBD+	14:45	2.2	16:10	2.6	
21:09	4.6	20:05-21:20	OUTBD+	20:40-21:20	OUTBD+	20:05	4.6	21:20	4.6	
		20:55-22:10	INBD -	20:55-21:35	INBD -	20:55	4.7	22:10	4.3	

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 WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2010/08/15	04:05	1.3	03:05-04:20	INBD -	03:35-04:20	INBD -	03:05	1.3	04:20	1.3
			03:50-05:10	OUTBD+	03:50-04:35	OUTBD+	03:50	1.3	05:10	1.6
	10:33	3.8	09:15-10:50	OUTBD+	09:55-10:50	OUTBD+	09:15	3.7	10:50	3.7
			10:15-12:25	INBD -	10:15-11:15	INBD -	10:15	3.8	12:25	3.4
	15:51	2.7	13:55-16:10	INBD -	15:05-16:10	INBD -	13:55	2.9	16:10	2.8
			15:30-17:30	OUTBD+	15:30-16:35	OUTBD+	15:30	2.7	17:30	3.2
2010/08/16	21:43	4.5	20:20-22:00	OUTBD+	21:05-22:00	OUTBD+	20:20	4.4	22:00	4.4
			21:25-22:55	INBD -	21:25-22:15	INBD -	21:25	4.5	22:55	4.1
	05:00	1.2	03:55-05:15	INBD -	04:30-05:15	INBD -	03:55	1.2	05:15	1.2
			04:45-06:15	OUTBD+	04:45-05:35	OUTBD+	04:45	1.1	06:15	1.6
2010/08/17	11:59	3.8	10:25-12:25	OUTBD+	11:10-12:25	OUTBD+	10:25	3.7	12:25	3.8
			11:35-17:20	INBD -	11:35-13:00	INBD -	11:35	3.8	17:20	3.2
	16:51	3.1			15:45-17:20	INBD -	15:45	3.1	17:20	3.2
			16:20-22:40	OUTBD+	16:20-17:55	OUTBD+	16:20	3.1	22:40	4.2
	22:21	4.3			21:30-22:40	OUTBD+	21:30	4.3	22:40	4.2
2010/08/18			22:00-23:45	INBD -	22:00-23:05	INBD -	22:00	4.3	23:45	3.9
	06:01	1.2	04:45-06:15	INBD -	05:25-06:15	INBD -	04:45	1.2	06:15	1.2
			05:45-07:20	OUTBD+	05:45-06:35	OUTBD+	05:45	1.1	07:20	1.6
	13:31	3.9	11:40-14:05	OUTBD+	12:35-14:05	OUTBD+	11:40	3.7	14:05	3.9
			13:05-18:55	INBD -	13:05-15:00	INBD -	13:05	3.9	18:55	3.5
	18:12	3.4			16:30-18:55	INBD -	16:30	3.5	18:55	3.5
2010/08/19			17:30-23:30	OUTBD+	17:30-19:45	OUTBD+	17:30	3.4	23:30	4.0
	23:06	4.1			21:50-23:30	OUTBD+	21:50	4.0	23:30	4.0
			22:35-00:50	INBD -	22:35-00:00	INBD -	22:35	4.1	00:50	3.6
	07:04	1.2	05:45-07:20	INBD -	06:25-07:20	INBD -	05:45	1.2	07:20	1.2
			06:45-08:25	OUTBD+	06:45-07:40	OUTBD+	06:45	1.1	08:25	1.6
2010/08/18	14:55	4.1	13:05-15:30	OUTBD+	14:00-15:30	OUTBD+	13:05	3.9	15:30	4.0
			14:25-20:45	INBD -	14:25-16:25	INBD -	14:25	4.1	20:45	3.6
	19:52	3.5			18:00-20:45	INBD -	18:00	3.6	20:45	3.6
	00:04	3.9	19:05-00:35	OUTBD+	19:05-00:35	OUTBD+	19:05	3.5	00:35	3.8
2010/08/19			23:20-02:05	INBD -	23:20-01:05	INBD -	23:20	3.9	02:05	3.4
	08:07	1.2	06:45-08:25	INBD -	07:30-08:25	INBD -	06:45	1.2	08:25	1.2
			07:50-09:30	OUTBD+	07:50-08:45	OUTBD+	07:50	1.1	09:30	1.6
	15:58	4.2	14:15-16:25	OUTBD+	15:05-16:25	OUTBD+	14:15	4.0	16:25	4.1
			15:35-22:10	INBD -	15:35-17:05	INBD -	15:35	4.2	22:10	3.5
2010/08/19	21:20	3.4			19:50-22:10	INBD -	19:50	3.5	22:10	3.5
	01:14	3.8	20:35-01:45	OUTBD+	20:35-01:45	OUTBD+	20:35	3.4	01:45	3.8

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

OPERATIONAL TIME FRAME

YYYY/MM/DD	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW END TIMES	END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2010/08/20			00:30-03:10	INBD -	00:30-02:15	INBD -	00:30	3.8	03:10	3.4
	09:05	1.1	07:45-09:20	INBD -	08:30-09:20	INBD -	07:45	1.2	09:20	1.2
			08:50-10:20	OUTBD+	08:50-09:40	OUTBD+	08:50	1.1	10:20	1.5
	16:44	4.2	15:15-17:10	OUTBD+	16:00-17:10	OUTBD+	15:15	4.2	17:10	4.2
			16:25-23:00	INBD -	16:25-17:40	INBD -	16:25	4.3	23:00	3.4
	22:20	3.3			21:05-23:00	INBD -	21:05	3.3	23:00	3.4
	02:25	3.8	21:45-02:50	OUTBD+	21:45-02:50	OUTBD+	21:45	3.3	02:50	3.8
2010/08/21			01:50-04:10	INBD -	01:50-03:20	INBD -	01:50	3.8	04:10	3.4
	09:54	1.1	08:40-10:10	INBD -	09:20-10:10	INBD -	08:40	1.2	10:10	1.2
			09:40-11:05	OUTBD+	09:40-10:30	OUTBD+	09:40	1.1	11:05	1.5
	17:21	4.3	16:00-17:40	OUTBD+	16:40-17:40	OUTBD+	16:00	4.2	17:40	4.2
			17:00-19:35	INBD -	17:00-18:05	INBD -	17:00	4.3	19:35	3.8
	23:04	3.2	20:30-23:35	INBD -	22:05-23:35	INBD -	20:30	3.5	23:35	3.3
			22:35-03:50	OUTBD+	22:35-00:20	OUTBD+	22:35	3.1	03:50	3.8
2010/08/22					02:15-03:50	OUTBD+	02:15	3.8	03:50	3.8
	03:25	3.8	03:00-05:00	INBD -	03:00-04:15	INBD -	03:00	3.9	05:00	3.5
			09:25-10:50	INBD -	10:05-10:50	INBD -	09:25	1.2	10:50	1.1
	10:37	1.1	10:20-11:45	OUTBD+	10:20-11:10	OUTBD+	10:20	1.1	11:45	1.4
			16:35-18:10	OUTBD+	17:15-18:10	OUTBD+	16:35	4.2	18:10	4.2
	17:52	4.3	17:35-19:35	INBD -	17:35-18:30	INBD -	17:35	4.3	19:35	3.9
		21:40-00:05	INBD -	22:50-00:05	INBD -	21:40	3.2	00:05	3.1	
	23:40	3.0	23:15-04:40	OUTBD+	23:15-00:40	OUTBD+	23:15	3.0	04:40	3.8
2010/08/23					03:25-04:40	OUTBD+	03:25	3.9	04:40	3.8
	04:18	3.9	03:55-05:50	INBD -	03:55-05:00	INBD -	03:55	3.9	05:50	3.5
			10:05-11:30	INBD -	10:45-11:30	INBD -	10:05	1.3	11:30	1.2
	11:15	1.2	11:00-12:20	OUTBD+	11:00-11:45	OUTBD+	11:00	1.1	12:20	1.5
			17:05-18:35	OUTBD+	17:45-18:35	OUTBD+	17:05	4.2	18:35	4.2
	18:18	4.3	18:00-19:45	INBD -	18:00-18:55	INBD -	18:00	4.3	19:45	3.9
		22:30-00:35	INBD -	23:25-00:35	INBD -	22:30	2.9	00:35	2.9	
	00:13	2.8	23:50-05:25	OUTBD+	23:50-01:05	OUTBD+	23:50	2.8	05:25	3.9
2010/08/24					04:15-05:25	OUTBD+	04:15	3.9	05:25	3.9
	05:06	3.9	04:45-06:30	INBD -	04:45-05:45	INBD -	04:45	3.9	06:30	3.5
			10:40-12:05	INBD -	11:15-12:05	INBD -	10:40	1.4	12:05	1.3
	11:49	1.3	11:35-12:55	OUTBD+	11:35-12:20	OUTBD+	11:35	1.2	12:55	1.6
			17:30-18:55	OUTBD+	18:05-18:55	OUTBD+	17:30	4.2	18:55	4.2
	18:41	4.3	18:25-20:00	INBD -	18:25-19:15	INBD -	18:25	4.3	20:00	3.9
		23:10-01:05	INBD -	00:00-01:05	INBD -	23:10	2.7	01:05	2.7	
00:43	2.6									

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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				
2010/08/25			00:25-02:50	OUTBD+	00:25-01:30	OUTBD+	00:25	2.6	02:50	3.3
	05:51	3.9	03:45-06:10	OUTBD+	05:05-06:10	OUTBD+	03:45	3.6	06:10	3.9
			05:30-07:15	INBD -	05:30-06:30	INBD -	05:30	3.9	07:15	3.5
	12:20	1.4	11:05-12:35	INBD -	11:45-12:35	INBD -	11:05	1.6	12:35	1.5
			12:05-13:30	OUTBD+	12:05-12:55	OUTBD+	12:05	1.4	13:30	1.8
	19:01	4.3	17:50-19:15	OUTBD+	18:30-19:15	OUTBD+	17:50	4.2	19:15	4.2
			18:45-20:20	INBD -	18:45-19:35	INBD -	18:45	4.3	20:20	3.9
	01:12	2.4	23:45-01:30	INBD -	00:35-01:30	INBD -	23:45	2.5	01:30	2.5
2010/08/26			00:55-03:00	OUTBD+	00:55-01:55	OUTBD+	00:55	2.4	03:00	3.0
	06:36	3.9	04:50-06:55	OUTBD+	05:55-06:55	OUTBD+	04:50	3.7	06:55	3.8
			06:15-08:05	INBD -	06:15-07:15	INBD -	06:15	3.9	08:05	3.4
	12:51	1.7	11:35-13:05	INBD -	12:15-13:05	INBD -	11:35	1.8	13:05	1.7
			12:35-14:05	OUTBD+	12:35-13:25	OUTBD+	12:35	1.7	14:05	2.1
	19:20	4.3	18:05-19:35	OUTBD+	18:45-19:35	OUTBD+	18:05	4.2	19:35	4.2
		19:05-20:35	INBD -	19:05-19:55	INBD -	19:05	4.3	20:35	3.9	
2010/08/27	01:42	2.2	00:20-02:00	INBD -	01:05-02:00	INBD -	00:20	2.3	02:00	2.2
			01:25-03:15	OUTBD+	01:25-02:20	OUTBD+	01:25	2.1	03:15	2.7
	07:22	3.8	05:45-07:40	OUTBD+	06:40-07:40	OUTBD+	05:45	3.7	07:40	3.8
			07:05-08:55	INBD -	07:05-08:05	INBD -	07:05	3.9	08:55	3.4
	13:22	2.0	11:55-13:40	INBD -	12:45-13:40	INBD -	11:55	2.1	13:40	2.0
			13:05-14:45	OUTBD+	13:05-14:00	OUTBD+	13:05	1.9	14:45	2.4
19:39	4.2	18:20-19:55	OUTBD+	19:05-19:55	OUTBD+	18:20	4.1	19:55	4.2	
		19:25-20:55	INBD -	19:25-20:15	INBD -	19:25	4.3	20:55	3.9	
2010/08/28	02:12	2.0	00:55-02:30	INBD -	01:35-02:30	INBD -	00:55	2.1	02:30	2.0
			01:55-03:40	OUTBD+	01:55-02:50	OUTBD+	01:55	1.9	03:40	2.4
	08:10	3.8	06:35-08:30	OUTBD+	07:25-08:30	OUTBD+	06:35	3.7	08:30	3.7
			07:50-09:55	INBD -	07:50-08:55	INBD -	07:50	3.8	09:55	3.3
	13:53	2.3	12:10-14:15	INBD -	13:10-14:15	INBD -	12:10	2.5	14:15	2.3
			13:35-15:25	OUTBD+	13:35-14:35	OUTBD+	13:35	2.2	15:25	2.8
19:57	4.2	18:30-20:15	OUTBD+	19:20-20:15	OUTBD+	18:30	4.1	20:15	4.2	
		19:40-21:15	INBD -	19:40-20:35	INBD -	19:40	4.2	21:15	3.8	
2010/08/29	02:45	1.8	01:25-03:00	INBD -	02:10-03:00	INBD -	01:25	1.9	03:00	1.8
			02:30-04:15	OUTBD+	02:30-03:25	OUTBD+	02:30	1.8	04:15	2.2
	09:01	3.7	07:20-09:25	OUTBD+	08:15-09:25	OUTBD+	07:20	3.6	09:25	3.7
			08:40-14:50	INBD -	08:40-09:50	INBD -	08:40	3.8	14:50	2.7
	14:26	2.6			13:35-14:50	INBD -	13:35	2.6	14:50	2.7
			14:00-16:20	OUTBD+	14:00-15:15	OUTBD+	14:00	2.6	16:20	3.2
20:18	4.2	18:35-20:35	OUTBD+	19:35-20:35	OUTBD+	18:35	4.0	20:35	4.1	
		20:00-21:40	INBD -	20:00-20:55	INBD -	20:00	4.2	21:40	3.8	

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

OPERATIONAL TIME FRAME

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				
2010/08/30	03:22	1.6	02:00-03:40	INBD -	02:45-03:40	INBD -	02:00	1.7	03:40	1.7
			03:05-04:50	OUTBD+	03:05-04:00	OUTBD+	03:05	1.6	04:50	2.1
	09:59	3.7	08:10-10:25	OUTBD+	09:10-10:25	OUTBD+	08:10	3.5	10:25	3.7
			09:35-15:30	INBD -	09:35-11:00	INBD -	09:35	3.7	15:30	3.0
	15:01	2.9			13:55-15:30	INBD -	13:55	2.9	15:30	3.0
			14:30-21:05	OUTBD+	14:30-16:05	OUTBD+	14:30	2.9	21:05	4.1
	20:42	4.1			19:50-21:05	OUTBD+	19:50	4.1	21:05	4.1
20:20-22:15			INBD -	20:20-21:25	INBD -	20:20	4.1	22:15	3.7	
2010/08/31	04:07	1.5	02:45-04:25	INBD -	03:30-04:25	INBD -	02:45	1.6	04:25	1.5
			03:50-05:40	OUTBD+	03:50-04:50	OUTBD+	03:50	1.5	05:40	2.0
	11:10	3.7	09:05-11:45	OUTBD+	10:10-11:45	OUTBD+	09:05	3.5	11:45	3.7
			10:40-16:20	INBD -	10:40-12:45	INBD -	10:40	3.7	16:20	3.2
	15:44	3.2			14:00-16:20	INBD -	14:00	3.3	16:20	3.2
			15:05-21:35	OUTBD+	15:05-17:05	OUTBD+	15:05	3.2	21:35	4.0
	21:13	4.1			20:10-21:35	OUTBD+	20:10	4.0	21:35	4.0
20:45-22:55			INBD -	20:45-22:05	INBD -	20:45	4.1	22:55	3.6	

PORT METRO VANCOUVER  
 SECOND NARROWS MRA STANDING ORDER  
 TRANSIT PERIODS - MRA VESSELS September 2010  
 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				
2010/09/01	05:01	1.4	03:30-05:20	INBD -	04:20-05:20	INBD -	03:30	1.5	05:20	1.5
			04:40-06:40	OUTBD+	04:40-05:45	OUTBD+	04:40	1.4	06:40	1.9
	12:34	3.8	10:15-13:25	OUTBD+	11:25-13:25	OUTBD+	10:15	3.5	13:25	3.8
	16:42	3.4	12:00-17:30	INBD -	12:00-17:30	INBD -	12:00	3.8	17:30	3.5
	21:55	4.0	15:45-22:25	OUTBD+	15:45-18:35	OUTBD+	15:45	3.4	22:25	3.9
		21:20-23:50	INBD -	21:20-22:55	INBD -	21:20	4.0	23:50	3.5	
2010/09/02	06:05	1.3	04:35-06:25	INBD -	05:20-06:25	INBD -	04:35	1.4	06:25	1.4
			05:45-07:45	OUTBD+	05:45-06:50	OUTBD+	05:45	1.3	07:45	1.9
	14:01	3.9	11:40-14:55	OUTBD+	12:50-14:55	OUTBD+	11:40	3.7	14:55	3.9
	18:08	3.5	13:25-19:05	INBD -	13:25-19:05	INBD -	13:25	4.0	19:05	3.6
	22:56	3.9	17:05-23:30	OUTBD+	17:05-23:30	OUTBD+	17:05	3.6	23:30	3.9
		22:15-01:00	INBD -	22:15-00:00	INBD -	22:15	3.9	01:00	3.4	
2010/09/03	07:13	1.2	05:45-07:30	INBD -	06:35-07:30	INBD -	05:45	1.3	07:30	1.3
			06:55-08:45	OUTBD+	06:55-07:55	OUTBD+	06:55	1.2	08:45	1.7
	15:06	4.1	13:05-15:45	OUTBD+	14:05-15:45	OUTBD+	13:05	3.9	15:45	4.0
	19:44	3.5	14:35-20:30	INBD -	14:35-20:30	INBD -	14:35	4.1	20:30	3.5
	00:18	3.9	18:55-00:45	OUTBD+	18:55-00:45	OUTBD+	18:55	3.5	00:45	3.8
		23:40-02:10	INBD -	23:40-01:15	INBD -	23:40	3.9	02:10	3.4	
2010/09/04	08:18	1.1	07:00-08:35	INBD -	07:40-08:35	INBD -	07:00	1.1	08:35	1.1
			08:00-09:35	OUTBD+	08:00-08:55	OUTBD+	08:00	1.0	09:35	1.5
	15:52	4.2	14:20-16:15	OUTBD+	15:05-16:15	OUTBD+	14:20	4.1	16:15	4.2
			15:30-21:30	INBD -	15:30-16:50	INBD -	15:30	4.2	21:30	3.4
	20:59	3.3			19:45-21:30	INBD -	19:45	3.4	21:30	3.4
		20:25-02:05	OUTBD+	20:25-22:15	OUTBD+	20:25	3.3	02:05	3.9	
2010/09/05	01:42	3.9			00:40-02:05	OUTBD+	00:40	4.0	02:05	3.9
			01:15-03:15	INBD -	01:15-02:30	INBD -	01:15	4.0	03:15	3.5
	09:15	0.9	08:10-09:30	INBD -	08:45-09:30	INBD -	08:10	1.0	09:30	1.0
			09:00-10:20	OUTBD+	09:00-09:45	OUTBD+	09:00	0.9	10:20	1.3
	16:30	4.3	15:15-16:50	OUTBD+	15:55-16:50	OUTBD+	15:15	4.2	16:50	4.3
		16:10-18:15	INBD -	16:10-17:10	INBD -	16:10	4.4	18:15	3.9	
21:56	3.1	19:55-22:20	INBD -	21:05-22:20	INBD -	19:55	3.4	22:20	3.1	
		21:35-03:15	OUTBD+	21:35-22:45	OUTBD+	21:35	3.0	03:15	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 WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW	START	WINDOW	END
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT	TIMES	HGHTS	TIMES	HGHTS
2010/09/06	02:59	4.0			02:15-03:15	OUTBD+	02:15	4.1	03:15	4.0
			02:40-04:15	INBD -	02:40-03:35	INBD -	02:40	4.1	04:15	3.7
	10:07	0.9	09:10-10:20	INBD -	09:40-10:20	INBD -	09:10	0.9	10:20	0.9
			09:55-11:05	OUTBD+	09:55-10:35	OUTBD+	09:55	0.9	11:05	1.2
	17:03	4.4	16:00-17:20	OUTBD+	16:35-17:20	OUTBD+	16:00	4.4	17:20	4.4
			16:50-18:20	INBD -	16:50-17:35	INBD -	16:50	4.4	18:20	4.1
	22:46	2.7	21:25-23:05	INBD -	22:10-23:05	INBD -	21:25	2.8	23:05	2.7
		22:30-00:15	OUTBD+	22:30-23:25	OUTBD+	22:30	2.7	00:15	3.1	
2010/09/07	04:08	4.2	02:50-04:20	OUTBD+	03:35-04:20	OUTBD+	02:50	4.1	04:20	4.1
			03:55-05:10	INBD -	03:55-04:40	INBD -	03:55	4.2	05:10	3.8
	10:55	0.9	10:00-11:05	INBD -	10:30-11:05	INBD -	10:00	1.0	11:05	1.0
			10:45-11:50	OUTBD+	10:45-11:20	OUTBD+	10:45	0.9	11:50	1.3
	17:36	4.5	16:40-17:50	OUTBD+	17:10-17:50	OUTBD+	16:40	4.5	17:50	4.5
			17:25-18:35	INBD -	17:25-18:05	INBD -	17:25	4.5	18:35	4.2
	23:33	2.3	22:25-23:50	INBD -	23:05-23:50	INBD -	22:25	2.4	23:50	2.3
		23:20-00:40	OUTBD+	23:20-00:05	OUTBD+	23:20	2.2	00:40	2.6	
2010/09/08	05:12	4.2	04:05-05:25	OUTBD+	04:45-05:25	OUTBD+	04:05	4.2	05:25	4.2
			05:00-06:10	INBD -	05:00-05:40	INBD -	05:00	4.3	06:10	3.9
	11:41	1.2	10:50-11:50	INBD -	11:15-11:50	INBD -	10:50	1.1	11:50	1.2
			11:30-12:35	OUTBD+	11:30-12:05	OUTBD+	11:30	1.1	12:35	1.5
	18:07	4.6	17:15-18:20	OUTBD+	17:45-18:20	OUTBD+	17:15	4.6	18:20	4.5
			17:55-19:00	INBD -	17:55-18:30	INBD -	17:55	4.6	19:00	4.3
	00:19	1.8	23:20-00:30	INBD -	23:55-00:30	INBD -	23:20	1.9	00:30	1.9
2010/09/09			00:05-01:20	OUTBD+	00:05-00:45	OUTBD+	00:05	1.8	01:20	2.2
	06:15	4.2	05:15-06:25	OUTBD+	05:50-06:25	OUTBD+	05:15	4.2	06:25	4.2
			06:00-07:10	INBD -	06:00-06:40	INBD -	06:00	4.3	07:10	3.9
	12:27	1.5	11:30-12:40	INBD -	12:00-12:40	INBD -	11:30	1.5	12:40	1.6
			12:15-13:20	OUTBD+	12:15-12:50	OUTBD+	12:15	1.5	13:20	1.9
	18:39	4.6	17:45-18:50	OUTBD+	18:15-18:50	OUTBD+	17:45	4.6	18:50	4.6
			18:30-19:30	INBD -	18:30-19:05	INBD -	18:30	4.7	19:30	4.3
2010/09/10	01:05	1.4	00:10-01:15	INBD -	00:40-01:15	INBD -	00:10	1.5	01:15	1.5
			00:55-02:00	OUTBD+	00:55-01:30	OUTBD+	00:55	1.4	02:00	1.8
	07:16	4.2	06:20-07:30	OUTBD+	06:50-07:30	OUTBD+	06:20	4.2	07:30	4.2
			07:05-08:15	INBD -	07:05-07:45	INBD -	07:05	4.3	08:15	3.9
	13:13	1.9	12:10-13:25	INBD -	12:45-13:25	INBD -	12:10	1.9	13:25	2.0
			13:00-14:15	OUTBD+	13:00-13:40	OUTBD+	13:00	1.9	14:15	2.4
	19:11	4.6	18:15-19:20	OUTBD+	18:45-19:20	OUTBD+	18:15	4.6	19:20	4.6
		19:00-20:05	INBD -	19:00-19:35	INBD -	19:00	4.7	20:05	4.3	

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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				
2010/09/11	01:50	1.1	01:00-02:00	INBD -	01:25-02:00	INBD -	01:00	1.2	02:00	1.2
			01:40-02:45	OUTBD+	01:40-02:15	OUTBD+	01:40	1.1	02:45	1.5
	08:18	4.2	07:20-08:30	OUTBD+	07:50-08:30	OUTBD+	07:20	4.2	08:30	4.1
			08:05-09:25	INBD -	08:05-08:45	INBD -	08:05	4.2	09:25	3.8
	13:59	2.4	12:50-14:15	INBD -	13:25-14:15	INBD -	12:50	2.4	14:15	2.4
			13:45-15:10	OUTBD+	13:45-14:30	OUTBD+	13:45	2.3	15:10	2.8
2010/09/12	19:44	4.6	18:40-19:55	OUTBD+	19:15-19:55	OUTBD+	18:40	4.5	19:55	4.5
			19:30-20:40	INBD -	19:30-20:10	INBD -	19:30	4.6	20:40	4.2
	02:37	1.0	01:45-02:50	INBD -	02:10-02:50	INBD -	01:45	1.0	02:50	1.0
		02:25-03:30	OUTBD+	02:25-03:00	OUTBD+	02:25	1.0	03:30	1.3	
09:21	4.1	08:15-09:35	OUTBD+	08:50-09:35	OUTBD+	08:15	4.1	09:35	4.1	
		09:05-10:45	INBD -	09:05-09:55	INBD -	09:05	4.2	10:45	3.8	
14:50	2.8	13:20-15:10	INBD -	14:10-15:10	INBD -	13:20	2.8	15:10	2.9	
		14:30-16:20	OUTBD+	14:30-15:30	OUTBD+	14:30	2.7	16:20	3.3	
20:18	4.4	18:55-20:30	OUTBD+	19:45-20:30	OUTBD+	18:55	4.3	20:30	4.4	
		20:00-21:25	INBD -	20:00-20:50	INBD -	20:00	4.4	21:25	4.0	
2010/09/13	03:25	1.0	02:25-03:40	INBD -	03:00-03:40	INBD -	02:25	1.0	03:40	1.0
			03:15-04:25	OUTBD+	03:15-03:55	OUTBD+	03:15	0.9	04:25	1.3
	10:28	4.1	09:10-10:45	OUTBD+	09:50-10:45	OUTBD+	09:10	4.0	10:45	4.1
			10:10-12:35	INBD -	10:10-11:10	INBD -	10:10	4.1	12:35	3.6
	15:46	3.1	13:25-16:10	INBD -	14:55-16:10	INBD -	13:25	3.4	16:10	3.2
2010/09/14	20:54	4.2	15:20-21:10	OUTBD+	15:20-16:40	OUTBD+	15:20	3.1	21:10	4.1
			20:05-21:10	OUTBD+	20:05-21:10	OUTBD+	20:05	4.2	21:10	4.1
			20:35-22:15	INBD -	20:35-21:35	INBD -	20:35	4.2	22:15	3.8
2010/09/14	04:18	1.1	03:10-04:30	INBD -	03:45-04:30	INBD -	03:10	1.1	04:30	1.1
			04:05-05:25	OUTBD+	04:05-04:50	OUTBD+	04:05	1.0	05:25	1.4
	11:42	4.1	10:10-12:05	OUTBD+	10:55-12:05	OUTBD+	10:10	4.0	12:05	4.1
			11:20-17:30	INBD -	11:20-12:40	INBD -	11:20	4.1	17:30	3.4
	16:55	3.3	16:20-22:00	OUTBD+	16:20-18:15	OUTBD+	16:20	3.3	22:00	3.9
			20:25-22:00	OUTBD+	20:25-22:00	OUTBD+	20:25	3.9	22:00	3.9
2010/09/15	21:35	4.0	21:05-23:15	INBD -	21:05-22:25	INBD -	21:05	4.0	23:15	3.5
	05:17	1.2	03:55-05:35	INBD -	04:40-05:35	INBD -	03:55	1.3	05:35	1.2
			05:00-06:35	OUTBD+	05:00-05:55	OUTBD+	05:00	1.2	06:35	1.6
	12:59	4.1	11:15-13:30	OUTBD+	12:05-13:30	OUTBD+	11:15	4.0	13:30	4.1
			12:35-19:15	INBD -	12:35-14:10	INBD -	12:35	4.2	19:15	3.5
2010/09/15	18:23	3.4	17:40-23:00	OUTBD+	17:40-23:00	OUTBD+	17:40	3.4	23:00	3.7
			21:45-00:35	INBD -	21:45-23:35	INBD -	21:45	3.7	00:35	3.3
	22:29	3.7								

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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
2010/09/16	06:22	1.4	04:50-06:40	INBD -	05:40-06:40	INBD -	04:50	1.5	06:40	1.4
			06:00-07:50	OUTBD+	06:00-07:05	OUTBD+	06:00	1.3	07:50	1.8
	14:11	4.2	12:20-14:40	OUTBD+	13:15-14:40	OUTBD+	12:20	4.0	14:40	4.1
			13:45-21:00	INBD -	13:45-15:20	INBD -	13:45	4.2	21:00	3.4
	19:59	3.3			18:20-21:00	INBD -	18:20	3.4	21:00	3.4
	23:44	3.6	19:10-00:20	OUTBD+	19:10-00:20	OUTBD+	19:10	3.3	00:20	3.5
		22:50-02:05	INBD -	22:50-00:55	INBD -	22:50	3.6	02:05	3.1	
2010/09/17	07:28	1.5	05:50-07:50	INBD -	06:45-07:50	INBD -	05:50	1.6	07:50	1.5
			07:10-09:00	OUTBD+	07:10-08:10	OUTBD+	07:10	1.4	09:00	1.9
	15:07	4.2	13:25-15:35	OUTBD+	14:20-15:35	OUTBD+	13:25	4.0	15:35	4.1
			14:45-21:55	INBD -	14:45-16:05	INBD -	14:45	4.2	21:55	3.2
	21:10	3.1			19:50-21:55	INBD -	19:50	3.2	21:55	3.2
01:11	3.5	20:30-01:45	OUTBD+	20:30-01:45	OUTBD+	20:30	3.1	01:45	3.5	
2010/09/18			00:30-03:25	INBD -	00:30-02:15	INBD -	00:30	3.5	03:25	3.1
	08:29	1.5	06:50-08:45	INBD -	07:45-08:45	INBD -	06:50	1.7	08:45	1.6
			08:10-09:55	OUTBD+	08:10-09:10	OUTBD+	08:10	1.5	09:55	1.9
	15:51	4.2	14:20-16:10	OUTBD+	15:05-16:10	OUTBD+	14:20	4.1	16:10	4.2
			15:30-18:00	INBD -	15:30-16:40	INBD -	15:30	4.2	18:00	3.7
	21:58	2.9	19:25-22:30	INBD -	20:55-22:30	INBD -	19:25	3.3	22:30	3.0
		21:30-02:55	OUTBD+	21:30-23:20	OUTBD+	21:30	2.9	02:55	3.5	
2010/09/19	02:29	3.6			01:10-02:55	OUTBD+	01:10	3.5	02:55	3.5
			02:00-04:25	INBD -	02:00-03:25	INBD -	02:00	3.6	04:25	3.2
	09:20	1.6	07:50-09:40	INBD -	08:40-09:40	INBD -	07:50	1.7	09:40	1.6
			09:00-10:40	OUTBD+	09:00-10:00	OUTBD+	09:00	1.6	10:40	1.9
	16:25	4.2	15:00-16:45	OUTBD+	15:45-16:45	OUTBD+	15:00	4.1	16:45	4.2
			16:05-18:05	INBD -	16:05-17:05	INBD -	16:05	4.2	18:05	3.8
22:35	2.7	20:40-23:00	INBD -	21:45-23:00	INBD -	20:40	2.9	23:00	2.8	
		22:10-03:55	OUTBD+	22:10-23:35	OUTBD+	22:10	2.7	03:55	3.7	
2010/09/20	03:32	3.7			02:35-03:55	OUTBD+	02:35	3.7	03:55	3.7
			03:05-05:15	INBD -	03:05-04:20	INBD -	03:05	3.7	05:15	3.3
	10:04	1.6	08:40-10:20	INBD -	09:25-10:20	INBD -	08:40	1.8	10:20	1.7
			09:45-11:25	OUTBD+	09:45-10:40	OUTBD+	09:45	1.6	11:25	2.0
	16:53	4.2	15:35-17:10	OUTBD+	16:15-17:10	OUTBD+	15:35	4.1	17:10	4.1
			16:35-18:20	INBD -	16:35-17:30	INBD -	16:35	4.2	18:20	3.8
23:07	2.5	21:30-23:30	INBD -	22:25-23:30	INBD -	21:30	2.6	23:30	2.6	
		22:45-01:20	OUTBD+	22:45-23:55	OUTBD+	22:45	2.4	01:20	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
2010/09/21	04:25	3.8	02:15-04:45	OUTBD+	03:40-04:45	OUTBD+	02:15	3.5	04:45	3.8
			04:05-06:00	INBD -	04:05-05:10	INBD -	04:05	3.8	06:00	3.4
	10:44	1.7	09:20-11:00	INBD -	10:05-11:00	INBD -	09:20	1.9	11:00	1.8
			10:25-12:00	OUTBD+	10:25-11:20	OUTBD+	10:25	1.7	12:00	2.1
	17:17	4.2	16:00-17:35	OUTBD+	16:40-17:35	OUTBD+	16:00	4.1	17:35	4.1
23:36	2.3		17:00-18:35	INBD -	17:00-17:50	INBD -	17:00	4.2	18:35	3.8
			22:10-23:55	INBD -	22:55-23:55	INBD -	22:10	2.3	23:55	2.3
			23:15-01:15	OUTBD+	23:15-00:15	OUTBD+	23:15	2.2	01:15	2.8
2010/09/22	05:13	3.9	03:35-05:30	OUTBD+	04:30-05:30	OUTBD+	03:35	3.7	05:30	3.9
			04:55-06:45	INBD -	04:55-05:55	INBD -	04:55	3.9	06:45	3.5
	11:20	1.9	09:55-11:35	INBD -	10:40-11:35	INBD -	09:55	2.0	11:35	1.9
			11:05-12:40	OUTBD+	11:05-11:55	OUTBD+	11:05	1.9	12:40	2.3
	17:38	4.1	16:20-17:55	OUTBD+	17:05-17:55	OUTBD+	16:20	4.0	17:55	4.1
00:03	2.0		17:20-18:55	INBD -	17:20-18:10	INBD -	17:20	4.2	18:55	3.8
			22:45-00:20	INBD -	23:25-00:20	INBD -	22:45	2.1	00:20	2.1
			23:45-01:30	OUTBD+	23:45-00:40	OUTBD+	23:45	2.0	01:30	2.5
2010/09/23	05:59	4.0	04:30-06:15	OUTBD+	05:20-06:15	OUTBD+	04:30	3.9	06:15	3.9
			05:40-07:30	INBD -	05:40-06:40	INBD -	05:40	4.0	07:30	3.5
	11:54	2.1	10:25-12:10	INBD -	11:15-12:10	INBD -	10:25	2.2	12:10	2.1
			11:35-13:20	OUTBD+	11:35-12:30	OUTBD+	11:35	2.1	13:20	2.5
	17:57	4.1	16:40-18:15	OUTBD+	17:20-18:15	OUTBD+	16:40	4.0	18:15	4.1
00:30	1.8		17:40-19:10	INBD -	17:40-18:30	INBD -	17:40	4.2	19:10	3.8
			23:15-00:45	INBD -	23:55-00:45	INBD -	23:15	1.9	00:45	1.8
2010/09/24			00:15-01:45	OUTBD+	00:15-01:05	OUTBD+	00:15	1.7	01:45	2.2
	06:43	4.0	05:20-07:00	OUTBD+	06:05-07:00	OUTBD+	05:20	4.0	07:00	4.0
			06:25-08:15	INBD -	06:25-07:25	INBD -	06:25	4.1	08:15	3.6
	12:28	2.3	10:55-12:45	INBD -	11:45-12:45	INBD -	10:55	2.5	12:45	2.3
			12:10-14:00	OUTBD+	12:10-13:10	OUTBD+	12:10	2.3	14:00	2.8
18:16	4.1		16:50-18:30	OUTBD+	17:40-18:30	OUTBD+	16:50	4.0	18:30	4.1
			18:00-19:30	INBD -	18:00-18:50	INBD -	18:00	4.2	19:30	3.8
00:58	1.6	23:50-01:15	INBD -	00:25-01:15	INBD -	23:50	1.6	01:15	1.6	
2010/09/25			00:45-02:10	OUTBD+	00:45-01:30	OUTBD+	00:45	1.5	02:10	2.0
	07:27	4.1	06:05-07:45	OUTBD+	06:50-07:45	OUTBD+	06:05	4.0	07:45	4.0
			07:10-09:05	INBD -	07:10-08:10	INBD -	07:10	4.1	09:05	3.6
	13:03	2.6	11:15-13:25	INBD -	12:15-13:25	INBD -	11:15	2.8	13:25	2.6
			12:40-14:50	OUTBD+	12:40-13:50	OUTBD+	12:40	2.5	14:50	3.1
18:34	4.1		16:55-18:50	OUTBD+	17:55-18:50	OUTBD+	16:55	3.9	18:50	4.1
			18:15-19:50	INBD -	18:15-19:10	INBD -	18:15	4.1	19:50	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

OPERATIONAL TIME FRAME

YYYY/MM/DD	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW END TIMES	END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2010/09/26	01:28	1.4	00:20-01:40	INBD -	00:55-01:40	INBD -	00:20	1.5	01:40	1.4
			01:15-02:40	OUTBD+	01:15-02:00	OUTBD+	01:15	1.4	02:40	1.8
	08:12	4.1	06:50-08:30	OUTBD+	07:35-08:30	OUTBD+	06:50	4.0	08:30	4.1
			07:55-10:10	INBD -	07:55-08:55	INBD -	07:55	4.1	10:10	3.6
	13:37	2.8	11:25-14:00	INBD -	12:45-14:00	INBD -	11:25	3.1	14:00	2.9
			13:15-15:55	OUTBD+	13:15-14:30	OUTBD+	13:15	2.8	15:55	3.5
18:55	4.1	16:50-19:15	OUTBD+	18:10-19:15	OUTBD+	16:50	3.8	19:15	4.1	
		18:35-20:15	INBD -	18:35-19:35	INBD -	18:35	4.1	20:15	3.7	
2010/09/27	02:01	1.3	00:50-02:15	INBD -	01:30-02:15	INBD -	00:50	1.4	02:15	1.3
			01:45-03:10	OUTBD+	01:45-02:35	OUTBD+	01:45	1.2	03:10	1.6
	09:01	4.1	07:35-09:20	OUTBD+	08:20-09:20	OUTBD+	07:35	4.0	09:20	4.1
			08:40-14:40	INBD -	08:40-09:50	INBD -	08:40	4.1	14:40	3.1
	14:14	3.0			13:15-14:40	INBD -	13:15	3.0	14:40	3.1
					13:45-19:40	OUTBD+	13:45-15:15	OUTBD+	13:45	3.0
19:19	4.1			18:30-19:40	OUTBD+	18:30	4.0	19:40	4.0	
				18:55-20:45	INBD -	18:55-20:00	INBD -	18:55	4.1	20:45
2010/09/28	02:40	1.2	01:30-02:55	INBD -	02:05-02:55	INBD -	01:30	1.3	02:55	1.2
			02:25-03:55	OUTBD+	02:25-03:15	OUTBD+	02:25	1.2	03:55	1.6
	09:54	4.1	08:20-10:20	OUTBD+	09:10-10:20	OUTBD+	08:20	4.0	10:20	4.1
			09:30-15:25	INBD -	09:30-10:55	INBD -	09:30	4.1	15:25	3.3
	14:54	3.2			13:40-15:25	INBD -	13:40	3.3	15:25	3.3
					14:20-20:10	OUTBD+	14:20-16:05	OUTBD+	14:20	3.2
19:50	4.0			18:50-20:10	OUTBD+	18:50	4.0	20:10	3.9	
				19:25-21:25	INBD -	19:25-20:35	INBD -	19:25	4.0	21:25
2010/09/29	03:27	1.2	02:10-03:45	INBD -	02:50-03:45	INBD -	02:10	1.3	03:45	1.2
			03:10-04:45	OUTBD+	03:10-04:00	OUTBD+	03:10	1.2	04:45	1.6
	10:56	4.1	09:10-11:25	OUTBD+	10:05-11:25	OUTBD+	09:10	3.9	11:25	4.1
			10:30-16:25	INBD -	10:30-12:15	INBD -	10:30	4.1	16:25	3.5
	15:45	3.4			14:10-16:25	INBD -	14:10	3.5	16:25	3.5
					15:05-20:55	OUTBD+	15:05-17:20	OUTBD+	15:05	3.4
20:29	3.9			19:05-20:55	OUTBD+	19:05	3.9	20:55	3.8	
				19:55-22:15	INBD -	19:55-21:20	INBD -	19:55	3.9	22:15
2010/09/30	04:22	1.2	03:00-04:40	INBD -	03:45-04:40	INBD -	03:00	1.3	04:40	1.3
			04:05-05:45	OUTBD+	04:05-05:00	OUTBD+	04:05	1.2	05:45	1.7
	12:07	4.1	10:10-12:40	OUTBD+	11:10-12:40	OUTBD+	10:10	3.9	12:40	4.1
			11:35-17:45	INBD -	11:35-13:50	INBD -	11:35	4.2	17:45	3.5
	16:54	3.5			14:50-17:45	INBD -	14:50	3.7	17:45	3.5
					16:05-21:55	OUTBD+	16:05-21:55	OUTBD+	16:05	3.5
21:22	3.8			20:45-23:20	INBD -	20:45	3.8	23:20	3.3	

PORT METRO VANCOUVER  
 SECOND NARROWS MRA STANDING ORDER  
 TRANSIT PERIODS - MRA VESSELS October 2010  
 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	WINDOW END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2010/10/01	05:26	1.3	04:00-05:45	INBD -	04:45-05:45	INBD -	04:00	1.3	05:45	1.3
			05:05-06:55	OUTBD+	05:05-06:05	OUTBD+	05:05	1.2	06:55	1.8
	13:16	4.2	11:20-13:50	OUTBD+	12:20-13:50	OUTBD+	11:20	4.0	13:50	4.1
			12:45-19:15	INBD -	12:45-14:45	INBD -	12:45	4.2	19:15	3.4
	18:24	3.4			16:35-19:15	INBD -	16:35	3.6	19:15	3.4
	22:40	3.6	17:35-23:10	OUTBD+	17:35-23:10	OUTBD+	17:35	3.4	23:10	3.6
		21:55-00:45	INBD -	21:55-23:45	INBD -	21:55	3.6	00:45	3.2	
2010/10/02	06:35	1.3	05:05-06:55	INBD -	05:55-06:55	INBD -	05:05	1.4	06:55	1.4
			06:15-08:00	OUTBD+	06:15-07:15	OUTBD+	06:15	1.3	08:00	1.8
	14:12	4.3	12:30-14:40	OUTBD+	13:25-14:40	OUTBD+	12:30	4.1	14:40	4.2
			13:50-20:25	INBD -	13:50-15:15	INBD -	13:50	4.3	20:25	3.2
	19:47	3.1			18:30-20:25	INBD -	18:30	3.3	20:25	3.2
			19:10-00:45	OUTBD+	19:10-21:25	OUTBD+	19:10	3.2	00:45	3.5
	00:18	3.6			22:50-00:45	OUTBD+	22:50	3.5	00:45	3.5
			23:45-02:10	INBD -	23:45-01:15	INBD -	23:45	3.6	02:10	3.2
2010/10/03	07:42	1.4	06:20-08:00	INBD -	07:05-08:00	INBD -	06:20	1.4	08:00	1.4
			07:25-09:00	OUTBD+	07:25-08:20	OUTBD+	07:25	1.3	09:00	1.8
	14:56	4.3	13:30-15:15	OUTBD+	14:15-15:15	OUTBD+	13:30	4.2	15:15	4.3
			14:35-16:50	INBD -	14:35-15:40	INBD -	14:35	4.4	16:50	3.8
	20:50	2.8	18:45-21:15	INBD -	19:55-21:15	INBD -	18:45	3.1	21:15	2.8
		20:25-02:15	OUTBD+	20:25-21:50	OUTBD+	20:25	2.8	02:15	3.6	
2010/10/04	01:52	3.7			01:00-02:15	OUTBD+	01:00	3.7	02:15	3.6
			01:30-03:25	INBD -	01:30-02:35	INBD -	01:30	3.7	03:25	3.3
	08:43	1.4	07:30-09:00	INBD -	08:10-09:00	INBD -	07:30	1.5	09:00	1.5
			08:30-09:55	OUTBD+	08:30-09:15	OUTBD+	08:30	1.4	09:55	1.8
	15:34	4.4	14:25-15:50	OUTBD+	15:00-15:50	OUTBD+	14:25	4.4	15:50	4.4
			15:20-16:50	INBD -	15:20-16:10	INBD -	15:20	4.4	16:50	4.1
	21:41	2.4	20:15-22:00	INBD -	21:05-22:00	INBD -	20:15	2.6	22:00	2.4
			21:25-23:15	OUTBD+	21:25-22:20	OUTBD+	21:25	2.4	23:15	2.8
2010/10/05	03:13	3.9	01:40-03:30	OUTBD+	02:35-03:30	OUTBD+	01:40	3.7	03:30	3.8
			02:55-04:30	INBD -	02:55-03:50	INBD -	02:55	3.9	04:30	3.5
	09:39	1.6	08:30-09:50	INBD -	09:10-09:50	INBD -	08:30	1.6	09:50	1.6
			09:25-10:45	OUTBD+	09:25-10:10	OUTBD+	09:25	1.5	10:45	1.9
	16:08	4.5	15:05-16:20	OUTBD+	15:40-16:20	OUTBD+	15:05	4.4	16:20	4.4
			15:55-17:10	INBD -	15:55-16:35	INBD -	15:55	4.5	17:10	4.1
	22:27	1.9	21:20-22:40	INBD -	21:55-22:40	INBD -	21:20	2.0	22:40	1.9
		22:15-23:35	OUTBD+	22:15-23:00	OUTBD+	22:15	1.9	23:35	2.3	

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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				
2010/10/06	04:23	4.1	03:15-04:40	OUTBD+	03:50-04:40	OUTBD+	03:15	4.0	04:40	4.0
			04:10-05:30	INBD -	04:10-04:55	INBD -	04:10	4.1	05:30	3.7
	10:30	1.8	09:25-10:45	INBD -	10:00-10:45	INBD -	09:25	1.8	10:45	1.8
			10:15-11:35	OUTBD+	10:15-11:00	OUTBD+	10:15	1.7	11:35	2.2
	16:41	4.5	15:40-16:55	OUTBD+	16:15-16:55	OUTBD+	15:40	4.5	16:55	4.5
			16:30-17:35	INBD -	16:30-17:05	INBD -	16:30	4.6	17:35	4.2
23:11	1.5		22:15-23:25	INBD -	22:45-23:25	INBD -	22:15	1.5	23:25	1.5
			23:00-00:10	OUTBD+	23:00-23:35	OUTBD+	23:00	1.4	00:10	1.8
2010/10/07	05:27	4.2	04:25-05:40	OUTBD+	05:00-05:40	OUTBD+	04:25	4.2	05:40	4.2
			05:15-06:30	INBD -	05:15-05:55	INBD -	05:15	4.3	06:30	3.9
	11:20	2.1	10:15-11:35	INBD -	10:50-11:35	INBD -	10:15	2.1	11:35	2.1
			11:05-12:25	OUTBD+	11:05-11:50	OUTBD+	11:05	2.0	12:25	2.5
	17:13	4.6	16:15-17:25	OUTBD+	16:45-17:25	OUTBD+	16:15	4.5	17:25	4.5
			17:00-18:05	INBD -	17:00-17:40	INBD -	17:00	4.6	18:05	4.2
23:54	1.0		23:05-00:05	INBD -	23:30-00:05	INBD -	23:05	1.1	00:05	1.1
			23:45-00:45	OUTBD+	23:45-00:20	OUTBD+	23:45	1.0	00:45	1.4
2010/10/08	06:28	4.4	05:30-06:40	OUTBD+	06:00-06:40	OUTBD+	05:30	4.4	06:40	4.3
			06:15-07:30	INBD -	06:15-06:55	INBD -	06:15	4.4	07:30	4.0
	12:10	2.4	11:00-12:25	INBD -	11:40-12:25	INBD -	11:00	2.4	12:25	2.4
			11:55-13:20	OUTBD+	11:55-12:40	OUTBD+	11:55	2.3	13:20	2.8
	17:46	4.5	16:45-17:55	OUTBD+	17:20-17:55	OUTBD+	16:45	4.5	17:55	4.5
			17:35-18:40	INBD -	17:35-18:10	INBD -	17:35	4.6	18:40	4.2
00:37	0.8	23:50-00:45	INBD -	00:15-00:45	INBD -	23:50	0.8	00:45	0.8	
2010/10/09			00:25-01:25	OUTBD+	00:25-01:00	OUTBD+	00:25	0.7	01:25	1.1
	07:25	4.4	06:30-07:40	OUTBD+	07:00-07:40	OUTBD+	06:30	4.5	07:40	4.4
			07:15-08:30	INBD -	07:15-07:55	INBD -	07:15	4.5	08:30	4.1
	12:59	2.7	11:45-13:15	INBD -	12:25-13:15	INBD -	11:45	2.7	13:15	2.8
			12:45-14:20	OUTBD+	12:45-13:35	OUTBD+	12:45	2.7	14:20	3.2
	18:19	4.5	17:10-18:30	OUTBD+	17:50-18:30	OUTBD+	17:10	4.4	18:30	4.4
		18:05-19:15	INBD -	18:05-18:45	INBD -	18:05	4.5	19:15	4.2	
2010/10/10	01:20	0.6	00:30-01:30	INBD -	00:55-01:30	INBD -	00:30	0.6	01:30	0.7
			01:10-02:10	OUTBD+	01:10-01:45	OUTBD+	01:10	0.6	02:10	1.0
	08:22	4.5	07:20-08:35	OUTBD+	07:55-08:35	OUTBD+	07:20	4.5	08:35	4.4
			08:10-09:35	INBD -	08:10-08:55	INBD -	08:10	4.5	09:35	4.1
	13:51	3.0	12:25-14:10	INBD -	13:10-14:10	INBD -	12:25	3.0	14:10	3.0
			13:35-15:30	OUTBD+	13:35-14:30	OUTBD+	13:35	2.9	15:30	3.5
18:54	4.3		17:25-19:10	OUTBD+	18:20-19:10	OUTBD+	17:25	4.2	19:10	4.3
			18:40-20:00	INBD -	18:40-19:25	INBD -	18:40	4.4	20:00	4.0

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

OPERATIONAL TIME FRAME

YYYY/MM/DD	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW END TIMES	END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2010/10/11	02:04	0.7	01:10-02:15	INBD -	01:40-02:15	INBD -	01:10	0.7	02:15	0.7
			01:55-02:55	OUTBD+	01:55-02:30	OUTBD+	01:55	0.6	02:55	1.0
	09:18	4.5	08:15-09:35	OUTBD+	08:45-09:35	OUTBD+	08:15	4.5	09:35	4.4
			09:05-10:50	INBD -	09:05-09:55	INBD -	09:05	4.5	10:50	4.1
	14:46	3.2	12:55-15:10	INBD -	14:00-15:10	INBD -	12:55	3.3	15:10	3.3
			14:25-19:50	OUTBD+	14:25-15:35	OUTBD+	14:25	3.1	19:50	4.1
19:30	4.2	19:10-20:45	INBD -	19:10-20:05	INBD -	19:10	4.2	20:45	3.8	
2010/10/12	02:50	0.8	01:50-03:00	INBD -	02:25-03:00	INBD -	01:50	0.8	03:00	0.8
			02:40-03:50	OUTBD+	02:40-03:15	OUTBD+	02:40	0.8	03:50	1.2
	10:16	4.4	09:00-10:35	OUTBD+	09:40-10:35	OUTBD+	09:00	4.4	10:35	4.4
			10:00-12:20	INBD -	10:00-11:00	INBD -	10:00	4.5	12:20	3.9
	15:47	3.3	13:15-16:15	INBD -	14:50-16:15	INBD -	13:15	3.6	16:15	3.4
			15:20-20:30	OUTBD+	15:20-17:00	OUTBD+	15:20	3.3	20:30	3.9
20:10	3.9	19:45-21:40	INBD -	19:45-20:55	INBD -	19:45	3.9	21:40	3.5	
2010/10/13	03:39	1.0	02:30-03:55	INBD -	03:05-03:55	INBD -	02:30	1.1	03:55	1.1
			03:25-04:45	OUTBD+	03:25-04:10	OUTBD+	03:25	1.0	04:45	1.4
	11:16	4.4	09:50-11:40	OUTBD+	10:35-11:40	OUTBD+	09:50	4.3	11:40	4.3
			10:55-17:40	INBD -	10:55-12:05	INBD -	10:55	4.4	17:40	3.4
	16:59	3.3	15:45-17:40	INBD -	15:45-17:40	INBD -	15:45	3.4	17:40	3.4
	20:56	3.7	16:25-21:25	OUTBD+	16:25-21:25	OUTBD+	16:25	3.3	21:25	3.6
20:20-22:50			INBD -	20:20-21:55	INBD -	20:20	3.7	22:50	3.2	
2010/10/14	04:32	1.3	03:10-04:50	INBD -	03:55-04:50	INBD -	03:10	1.4	04:50	1.3
			04:15-05:50	OUTBD+	04:15-05:10	OUTBD+	04:15	1.3	05:50	1.7
	12:16	4.3	10:40-12:40	OUTBD+	11:30-12:40	OUTBD+	10:40	4.2	12:40	4.3
			11:55-19:25	INBD -	11:55-13:15	INBD -	11:55	4.4	19:25	3.3
	18:24	3.2	16:55-19:25	INBD -	16:55-19:25	INBD -	16:55	3.3	19:25	3.3
	21:57	3.4	17:40-22:35	OUTBD+	17:40-22:35	OUTBD+	17:40	3.2	22:35	3.4
21:00-00:25			INBD -	21:00-23:10	INBD -	21:00	3.4	00:25	2.9	
2010/10/15	05:31	1.6	03:45-05:50	INBD -	04:45-05:50	INBD -	03:45	1.7	05:50	1.6
			05:10-07:05	OUTBD+	05:10-06:15	OUTBD+	05:10	1.5	07:05	2.0
	13:14	4.3	11:30-13:40	OUTBD+	12:25-13:40	OUTBD+	11:30	4.1	13:40	4.2
			12:50-20:45	INBD -	12:50-14:10	INBD -	12:50	4.3	20:45	3.1
	19:45	3.0	18:20-20:45	INBD -	18:20-20:45	INBD -	18:20	3.1	20:45	3.1
	23:23	3.3	19:00-00:05	OUTBD+	19:00-00:05	OUTBD+	19:00	3.0	00:05	3.2
22:25-02:10			INBD -	22:25-00:40	INBD -	22:25	3.2	02:10	2.8	

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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		
2010/10/16	06:34	1.8	04:30-06:55	INBD -	05:45-06:55	INBD -	04:30	2.0	06:55	1.8		
			06:10-08:15	OUTBD+	06:10-07:20	OUTBD+	06:10	1.8	08:15	2.2		
	14:04	4.3	12:25-14:25	OUTBD+	13:15-14:25	OUTBD+	12:25	4.1	14:25	4.2		
			13:40-16:20	INBD -	13:40-14:55	INBD -	13:40	4.3	16:20	3.7		
	20:44	2.7	18:00-21:25	INBD -	19:35-21:25	INBD -	18:00	3.2	21:25	2.8		
		01:01	3.3	20:10-01:35	OUTBD+	20:10-01:35	OUTBD+	20:10	2.7	01:35	3.2	
2010/10/17			00:20-03:50	INBD -	00:20-02:15	INBD -	00:20	3.2	03:50	2.7		
	07:35	2.0	05:15-07:55	INBD -	06:45-07:55	INBD -	05:15	2.3	07:55	2.0		
			07:10-09:15	OUTBD+	07:10-08:20	OUTBD+	07:10	2.0	09:15	2.4		
	14:44	4.2	13:10-15:05	OUTBD+	14:00-15:05	OUTBD+	13:10	4.1	15:05	4.2		
			14:25-16:30	INBD -	14:25-15:30	INBD -	14:25	4.2	16:30	3.8		
		21:26	2.5	19:25-21:55	INBD -	20:30-21:55	INBD -	19:25	2.7	21:55	2.5	
				21:00-02:55	OUTBD+	21:00-22:35	OUTBD+	21:00	2.4	02:55	3.4	
2010/10/18					01:15-02:55	OUTBD+	01:15	3.3	02:55	3.4		
			02:26	3.4	01:55-05:00	INBD -	01:55-03:25	INBD -	01:55	3.4	05:00	2.9
	08:31	2.2	06:15-08:50	INBD -	07:40-08:50	INBD -	06:15	2.5	08:50	2.2		
			08:10-10:10	OUTBD+	08:10-09:15	OUTBD+	08:10	2.2	10:10	2.5		
	15:17	4.2	13:45-15:35	OUTBD+	14:35-15:35	OUTBD+	13:45	4.1	15:35	4.1		
				15:00-16:50	INBD -	15:00-16:00	INBD -	15:00	4.2	16:50	3.8	
		22:00	2.2	20:20-22:25	INBD -	21:15-22:25	INBD -	20:20	2.3	22:25	2.3	
				21:40-04:00	OUTBD+	21:40-22:50	OUTBD+	21:40	2.2	04:00	3.6	
2010/10/19					02:40-04:00	OUTBD+	02:40	3.5	04:00	3.6		
	03:33	3.6	03:10-05:50	INBD -	03:10-04:25	INBD -	03:10	3.6	05:50	3.1		
			09:20	2.3	07:15-09:40	INBD -	08:30-09:40	INBD -	07:15	2.6	09:40	2.3
					09:00-11:00	OUTBD+	09:00-10:05	OUTBD+	09:00	2.3	11:00	2.7
	15:45	4.1	14:15-16:00	OUTBD+	15:05-16:00	OUTBD+	14:15	4.0	16:00	4.1		
				15:25-17:05	INBD -	15:25-16:25	INBD -	15:25	4.2	17:05	3.8	
		22:30	1.9	21:05-22:50	INBD -	21:50-22:50	INBD -	21:05	2.0	22:50	2.0	
				22:10-00:05	OUTBD+	22:10-23:10	OUTBD+	22:10	1.9	00:05	2.4	
2010/10/20					02:45-04:50	OUTBD+	03:45-04:50	OUTBD+	02:45	3.6	04:50	3.8
	04:29	3.8	04:10-06:30	INBD -	04:10-05:15	INBD -	04:10	3.8	06:30	3.3		
			10:06	2.5	08:05-10:25	INBD -	09:20-10:25	INBD -	08:05	2.8	10:25	2.5
					09:45-11:45	OUTBD+	09:45-10:50	OUTBD+	09:45	2.4	11:45	2.8
	16:09	4.1	14:40-16:25	OUTBD+	15:30-16:25	OUTBD+	14:40	4.0	16:25	4.1		
				15:50-17:25	INBD -	15:50-16:45	INBD -	15:50	4.1	17:25	3.8	
		22:58	1.7	21:45-23:15	INBD -	22:25-23:15	INBD -	21:45	1.7	23:15	1.7	
				22:40-00:20	OUTBD+	22:40-23:35	OUTBD+	22:40	1.6	00:20	2.1	

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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				
2010/10/21	05:19	4.0	03:50-05:40	OUTBD+	04:35-05:40	OUTBD+	03:50	3.9	05:40	4.0
			05:00-07:15	INBD -	05:00-06:05	INBD -	05:00	4.0	07:15	3.5
	10:48	2.6	08:50-11:10	INBD -	10:00-11:10	INBD -	08:50	2.9	11:10	2.6
			10:25-12:35	OUTBD+	10:25-11:35	OUTBD+	10:25	2.6	12:35	3.1
	16:31	4.1	14:55-16:50	OUTBD+	15:50-16:50	OUTBD+	14:55	3.9	16:50	4.0
			16:15-17:45	INBD -	16:15-17:05	INBD -	16:15	4.1	17:45	3.8
23:25	1.4		22:15-23:40	INBD -	22:55-23:40	INBD -	22:15	1.5	23:40	1.5
			23:10-00:35	OUTBD+	23:10-23:55	OUTBD+	23:10	1.4	00:35	1.8
2010/10/22	06:04	4.2	04:40-06:25	OUTBD+	05:25-06:25	OUTBD+	04:40	4.1	06:25	4.1
			05:45-07:55	INBD -	05:45-06:45	INBD -	05:45	4.2	07:55	3.7
	11:30	2.8	09:30-11:50	INBD -	10:40-11:50	INBD -	09:30	3.1	11:50	2.8
			11:05-13:30	OUTBD+	11:05-12:20	OUTBD+	11:05	2.7	13:30	3.3
	16:51	4.1	15:05-17:10	OUTBD+	16:10-17:10	OUTBD+	15:05	3.9	17:10	4.1
			16:35-18:05	INBD -	16:35-17:30	INBD -	16:35	4.1	18:05	3.7
23:52	1.2		22:45-00:05	INBD -	23:20-00:05	INBD -	22:45	1.3	00:05	1.2
			23:40-01:00	OUTBD+	23:40-00:25	OUTBD+	23:40	1.2	01:00	1.6
2010/10/23	06:48	4.3	05:30-07:05	OUTBD+	06:10-07:05	OUTBD+	05:30	4.2	07:05	4.3
			06:30-08:45	INBD -	06:30-07:30	INBD -	06:30	4.3	08:45	3.7
	12:09	2.9	10:00-12:35	INBD -	11:20-12:35	INBD -	10:00	3.3	12:35	3.0
			11:45-17:30	OUTBD+	11:45-13:00	OUTBD+	11:45	2.9	17:30	4.1
	17:13	4.1			16:30-17:30	OUTBD+	16:30	4.1	17:30	4.1
		16:55-18:30	INBD -	16:55-17:50	INBD -	16:55	4.1	18:30	3.7	
00:22	1.0	23:20-00:35	INBD -	23:55-00:35	INBD -	23:20	1.1	00:35	1.1	
2010/10/24			00:10-01:25	OUTBD+	00:10-00:50	OUTBD+	00:10	1.0	01:25	1.4
	07:30	4.4	06:15-07:50	OUTBD+	06:55-07:50	OUTBD+	06:15	4.3	07:50	4.3
			07:15-09:40	INBD -	07:15-08:15	INBD -	07:15	4.4	09:40	3.8
	12:49	3.1	10:25-13:15	INBD -	11:55-13:15	INBD -	10:25	3.5	13:15	3.2
			12:25-17:55	OUTBD+	12:25-13:45	OUTBD+	12:25	3.1	17:55	4.1
	17:36	4.1			16:45-17:55	OUTBD+	16:45	4.1	17:55	4.1
		17:15-18:55	INBD -	17:15-18:15	INBD -	17:15	4.1	18:55	3.7	
00:55	0.9	23:55-01:10	INBD -	00:25-01:10	INBD -	23:55	0.9	01:10	0.9	
2010/10/25			00:40-01:55	OUTBD+	00:40-01:25	OUTBD+	00:40	0.9	01:55	1.2
	08:14	4.4	06:55-08:35	OUTBD+	07:35-08:35	OUTBD+	06:55	4.4	08:35	4.4
			07:55-13:55	INBD -	07:55-09:00	INBD -	07:55	4.5	13:55	3.3
	13:28	3.3			12:30-13:55	INBD -	12:30	3.3	13:55	3.3
			13:00-18:25	OUTBD+	13:00-14:30	OUTBD+	13:00	3.2	18:25	4.0
18:04	4.1			17:10-18:25	OUTBD+	17:10	4.1	18:25	4.0	
		17:40-19:25	INBD -	17:40-18:45	INBD -	17:40	4.1	19:25	3.7	

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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
2010/10/26	01:32	0.8	00:30-01:45	INBD -	01:05-01:45	INBD -	00:30	0.9	01:45	0.9
			01:20-02:35	OUTBD+	01:20-02:00	OUTBD+	01:20	0.8	02:35	1.2
	08:59	4.5	07:40-09:20	OUTBD+	08:20-09:20	OUTBD+	07:40	4.4	09:20	4.4
			08:40-14:40	INBD -	08:40-09:50	INBD -	08:40	4.5	14:40	3.4
	14:09	3.4	13:40-19:00	OUTBD+	13:40-15:20	OUTBD+	13:40	3.4	19:00	4.0
				18:37	4.0	18:10-20:05	INBD -	18:10-19:20	INBD -	18:10
2010/10/27	02:14	0.8	01:10-02:25	INBD -	01:45-02:25	INBD -	01:10	0.9	02:25	0.9
			02:00-03:15	OUTBD+	02:00-02:45	OUTBD+	02:00	0.8	03:15	1.2
	09:48	4.5	08:25-10:10	OUTBD+	09:05-10:10	OUTBD+	08:25	4.4	10:10	4.4
			09:30-15:30	INBD -	09:30-10:40	INBD -	09:30	4.5	15:30	3.5
	14:56	3.4	14:25-19:40	OUTBD+	14:25-16:20	OUTBD+	14:25	3.4	19:40	3.9
				19:17	3.9	18:50-20:50	INBD -	18:50-20:05	INBD -	18:50
2010/10/28	03:01	0.9	01:55-03:15	INBD -	02:30-03:15	INBD -	01:55	1.0	03:15	1.0
			02:45-04:10	OUTBD+	02:45-03:30	OUTBD+	02:45	0.9	04:10	1.4
	10:41	4.5	09:10-11:05	OUTBD+	09:55-11:05	OUTBD+	09:10	4.4	11:05	4.4
			10:20-16:35	INBD -	10:20-11:40	INBD -	10:20	4.5	16:35	3.5
	15:55	3.4	15:20-20:35	OUTBD+	15:20-17:45	OUTBD+	15:20	3.4	20:35	3.7
				20:06	3.7	19:35-21:50	INBD -	19:35-21:00	INBD -	19:35
2010/10/29	03:53	1.1	02:40-04:10	INBD -	03:20-04:10	INBD -	02:40	1.1	04:10	1.1
			03:40-05:05	OUTBD+	03:40-04:25	OUTBD+	03:40	1.0	05:05	1.5
	11:35	4.5	10:05-12:00	OUTBD+	10:50-12:00	OUTBD+	10:05	4.4	12:00	4.4
			11:15-17:50	INBD -	11:15-12:35	INBD -	11:15	4.5	17:50	3.3
	17:08	3.3	16:30-21:40	OUTBD+	16:30-21:40	OUTBD+	16:30	3.3	21:40	3.5
				21:12	3.5	20:35-23:05	INBD -	20:35-22:10	INBD -	20:35
2010/10/30	04:52	1.3	03:30-05:10	INBD -	04:15-05:10	INBD -	03:30	1.3	05:10	1.4
			04:35-06:10	OUTBD+	04:35-05:30	OUTBD+	04:35	1.2	06:10	1.7
	12:28	4.5	10:55-12:50	OUTBD+	11:45-12:50	OUTBD+	10:55	4.4	12:50	4.4
			12:05-19:10	INBD -	12:05-13:20	INBD -	12:05	4.5	19:10	3.0
	18:28	3.0	17:55-23:10	OUTBD+	17:55-23:10	OUTBD+	17:55	3.0	23:10	3.3
				22:42	3.4	22:05-00:45	INBD -	22:05-23:40	INBD -	22:05

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OPERATIONAL TIME FRAME

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				
2010/10/31	05:56	1.5	04:25-06:15	INBD -	05:15-06:15	INBD -	04:25	1.6	06:15	1.6
			05:40-07:20	OUTBD+	05:40-06:35	OUTBD+			05:40	1.5
	13:16	4.5	11:50-13:35	OUTBD+	12:35-13:35	OUTBD+	11:50	4.4	13:35	4.5
			12:55-15:00	INBD -	12:55-14:00	INBD -			12:55	4.5
	19:38	2.6	17:30-20:05	INBD -	18:40-20:05	INBD -	17:30	3.0	20:05	2.6
			19:10-00:55	OUTBD+	19:10-20:45	OUTBD+			19:10	2.6
	00:28	3.4			23:20-00:55	OUTBD+	23:20	3.3	00:55	3.3

PORT METRO VANCOUVER  
 SECOND NARROWS MRA STANDING ORDER  
 TRANSIT PERIODS - MRA VESSELS November 2010  
 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				
2010/11/01			00:00-02:25	INBD -	00:00-01:20	INBD -	00:00	3.4	02:25	3.0
	07:02	1.8	05:25-07:20	INBD -	06:20-07:20	INBD -	05:25	1.9	07:20	1.9
			06:45-08:25	OUTBD+	06:45-07:40	OUTBD+	06:45	1.8	08:25	2.3
	13:58	4.5	12:40-14:15	OUTBD+	13:20-14:15	OUTBD+	12:40	4.5	14:15	4.5
			13:40-15:20	INBD -	13:40-14:35	INBD -	13:40	4.5	15:20	4.1
	20:34	2.1	19:05-20:55	INBD -	19:50-20:55	INBD -	19:05	2.3	20:55	2.2
		20:15-22:30	OUTBD+	20:15-21:20	OUTBD+	20:15	2.1	22:30	2.7	
2010/11/02	02:08	3.5	00:05-02:30	OUTBD+	01:20-02:30	OUTBD+	00:05	3.2	02:30	3.5
			01:45-03:50	INBD -	01:45-02:55	INBD -	01:45	3.5	03:50	3.2
	08:07	2.1	06:30-08:25	INBD -	07:25-08:25	INBD -	06:30	2.2	08:25	2.2
			07:50-09:30	OUTBD+	07:50-08:45	OUTBD+	07:50	2.1	09:30	2.6
	14:36	4.5	13:20-14:50	OUTBD+	14:05-14:50	OUTBD+	13:20	4.5	14:50	4.5
			14:20-15:45	INBD -	14:20-15:10	INBD -	14:20	4.6	15:45	4.2
21:23	1.7	20:10-21:40	INBD -	20:50-21:40	INBD -	20:10	1.7	21:40	1.7	
		21:05-22:40	OUTBD+	21:05-21:55	OUTBD+	21:05	1.6	22:40	2.1	
2010/11/03	03:31	3.8	02:10-03:50	OUTBD+	02:55-03:50	OUTBD+	02:10	3.7	03:50	3.8
			03:15-05:05	INBD -	03:15-04:10	INBD -	03:15	3.8	05:05	3.4
	09:09	2.4	07:40-09:25	INBD -	08:30-09:25	INBD -	07:40	2.5	09:25	2.4
			08:50-10:30	OUTBD+	08:50-09:45	OUTBD+	08:50	2.4	10:30	2.8
	15:12	4.5	14:00-15:25	OUTBD+	14:40-15:25	OUTBD+	14:00	4.5	15:25	4.5
			15:00-16:15	INBD -	15:00-15:40	INBD -	15:00	4.6	16:15	4.2
22:07	1.2	21:10-22:20	INBD -	21:40-22:20	INBD -	21:10	1.2	22:20	1.2	
		21:55-23:10	OUTBD+	21:55-22:35	OUTBD+	21:55	1.2	23:10	1.6	
2010/11/04	04:42	4.1	03:30-05:00	OUTBD+	04:10-05:00	OUTBD+	03:30	4.1	05:00	4.1
			04:25-06:05	INBD -	04:25-05:15	INBD -	04:25	4.1	06:05	3.8
	10:08	2.7	08:40-10:25	INBD -	09:30-10:25	INBD -	08:40	2.8	10:25	2.7
			09:50-11:30	OUTBD+	09:50-10:45	OUTBD+	09:50	2.6	11:30	3.1
	15:47	4.5	14:35-16:00	OUTBD+	15:15-16:00	OUTBD+	14:35	4.5	16:00	4.5
			15:35-16:45	INBD -	15:35-16:15	INBD -	15:35	4.6	16:45	4.2
22:50	0.8	22:00-23:00	INBD -	22:25-23:00	INBD -	22:00	0.8	23:00	0.8	
		22:40-23:40	OUTBD+	22:40-23:15	OUTBD+	22:40	0.8	23:40	1.1	

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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
2010/11/05	05:43	4.4	04:40-06:00	OUTBD+	05:15-06:00	OUTBD+	04:40	4.4	06:00	4.3
			05:30-07:05	INBD -	05:30-06:15	INBD -	05:30	4.4	07:05	4.0
	11:04	2.9	09:35-11:20	INBD -	10:25-11:20	INBD -	09:35	3.0	11:20	3.0
			10:45-12:35	OUTBD+	10:45-11:45	OUTBD+	10:45	2.9	12:35	3.4
	16:22	4.5	15:05-16:35	OUTBD+	15:50-16:35	OUTBD+	15:05	4.4	16:35	4.5
			16:05-17:20	INBD -	16:05-16:50	INBD -	16:05	4.5	17:20	4.2
2010/11/06	23:32	0.5	22:45-23:40	INBD -	23:10-23:40	INBD -	22:45	0.5	23:40	0.6
			23:20-00:20	OUTBD+	23:20-23:55	OUTBD+	23:20	0.5	00:20	0.9
	06:39	4.6	05:40-06:55	OUTBD+	06:10-06:55	OUTBD+	05:40	4.6	06:55	4.5
2010/11/07			06:25-08:00	INBD -	06:25-07:10	INBD -	06:25	4.6	08:00	4.2
	11:59	3.1	10:25-12:20	INBD -	11:20-12:20	INBD -	10:25	3.2	12:20	3.2
			11:40-13:40	OUTBD+	11:40-12:40	OUTBD+	11:40	3.1	13:40	3.7
	16:57	4.4	15:25-17:10	OUTBD+	16:20-17:10	OUTBD+	15:25	4.3	17:10	4.4
			16:40-18:00	INBD -	16:40-17:30	INBD -	16:40	4.5	18:00	4.1
2010/11/08	00:13	0.4	23:25-00:25	INBD -	23:50-00:25	INBD -	23:25	0.4	00:25	0.5
			00:05-01:00	OUTBD+	00:05-00:35	OUTBD+	00:05	0.4	01:00	0.7
	07:31	4.7	06:30-07:45	OUTBD+	07:00-07:45	OUTBD+	06:30	4.7	07:45	4.6
			07:20-08:55	INBD -	07:20-08:05	INBD -	07:20	4.7	08:55	4.3
	12:54	3.3	11:15-13:15	INBD -	12:10-13:15	INBD -	11:15	3.4	13:15	3.3
			12:35-17:50	OUTBD+	12:35-13:40	OUTBD+	12:35	3.2	17:50	4.3
2010/11/09	17:34	4.3	17:15-18:40	INBD -	17:15-18:05	INBD -	17:15	4.4	18:40	4.0
			00:05-01:05	INBD -	00:30-01:05	INBD -	00:05	0.4	01:05	0.5
	00:55	0.4	00:45-01:45	OUTBD+	00:45-01:20	OUTBD+	00:45	0.4	01:45	0.7
			07:20-08:35	OUTBD+	07:50-08:35	OUTBD+	07:20	4.7	08:35	4.7
	08:21	4.7	08:05-09:50	INBD -	08:05-08:55	INBD -	08:05	4.8	09:50	4.3
			12:00-14:10	INBD -	13:00-14:10	INBD -	12:00	3.5	14:10	3.4
	13:48	3.4	13:25-18:30	OUTBD+	13:25-14:40	OUTBD+	13:25	3.3	18:30	4.1
2010/11/09	18:13	4.2	17:50-19:25	INBD -	17:50-18:50	INBD -	17:25	4.2	18:30	4.1
			00:45-01:50	INBD -	01:15-01:50	INBD -	00:45	0.5	01:50	0.6
	01:38	0.5	01:25-02:30	OUTBD+	01:25-02:00	OUTBD+	01:25	0.5	02:30	0.9
			08:05-09:25	OUTBD+	08:35-09:25	OUTBD+	08:05	4.7	09:25	4.7
	09:09	4.7	08:55-10:45	INBD -	08:55-09:45	INBD -	08:55	4.7	10:45	4.3
			12:40-15:10	INBD -	13:50-15:10	INBD -	12:40	3.6	15:10	3.4
2010/11/09	14:44	3.4	14:20-19:15	OUTBD+	14:20-15:50	OUTBD+	14:20	3.3	19:15	3.9
			17:55-19:15	OUTBD+	17:55-19:15	OUTBD+	17:55	4.0	19:15	3.9
	18:53	4.0	18:30-20:15	INBD -	18:30-19:35	INBD -	18:30	4.0	20:15	3.6

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TO ASSIST IN OPERATIONAL PLANNING OF TRANSITS

OPERATIONAL TIME FRAME

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				
2010/11/10	02:20	0.7	01:20-02:35	INBD -	01:55-02:35	INBD -	01:20	0.8	02:35	0.8
			02:10-03:20	OUTBD+	02:10-02:50	OUTBD+	02:10	0.7	03:20	1.1
	09:56	4.7	08:45-10:15	OUTBD+	09:20-10:15	OUTBD+	08:45	4.7	10:15	4.6
			09:40-11:45	INBD -	09:40-10:35	INBD -	09:40	4.7	11:45	4.2
	15:43	3.3	13:20-16:15	INBD -	14:40-16:15	INBD -	13:20	3.6	16:15	3.4
			15:15-20:00	OUTBD+	15:15-17:20	OUTBD+	15:15	3.3	20:00	3.7
19:37	3.7	19:05-21:15	INBD -	19:05-20:25	INBD -	19:05	3.8	21:15	3.3	
2010/11/11	03:04	1.0	01:55-03:20	INBD -	02:30-03:20	INBD -	01:55	1.1	03:20	1.1
			02:50-04:10	OUTBD+	02:50-03:35	OUTBD+	02:50	1.0	04:10	1.4
	10:42	4.6	09:25-11:00	OUTBD+	10:05-11:00	OUTBD+	09:25	4.6	11:00	4.6
			10:25-12:45	INBD -	10:25-11:25	INBD -	10:25	4.6	12:45	4.1
	16:48	3.2	14:05-17:30	INBD -	15:40-17:30	INBD -	14:05	3.6	17:30	3.3
	20:27	3.5	16:15-21:00	OUTBD+	16:15-21:00	OUTBD+	16:15	3.2	21:00	3.4
		19:45-22:25	INBD -	19:45-21:25	INBD -	19:45	3.5	22:25	3.0	
2010/11/12	03:49	1.4	02:25-04:05	INBD -	03:10-04:05	INBD -	02:25	1.4	04:05	1.4
			03:30-05:05	OUTBD+	03:30-04:25	OUTBD+	03:30	1.3	05:05	1.8
	11:28	4.5	10:00-11:50	OUTBD+	10:45-11:50	OUTBD+	10:00	4.5	11:50	4.5
			11:10-13:35	INBD -	11:10-12:15	INBD -	11:10	4.6	13:35	4.0
	17:59	3.0	15:05-18:55	INBD -	16:45-18:55	INBD -	15:05	3.5	18:55	3.1
	21:30	3.2	17:20-22:05	OUTBD+	17:20-22:05	OUTBD+	17:20	3.0	22:05	3.2
		20:35-00:00	INBD -	20:35-22:40	INBD -	20:35	3.2	00:00	2.8	
2010/11/13	04:37	1.7	02:50-04:55	INBD -	03:50-04:55	INBD -	02:50	1.8	04:55	1.8
			04:15-06:05	OUTBD+	04:15-05:20	OUTBD+	04:15	1.7	06:05	2.1
	12:12	4.5	10:40-12:35	OUTBD+	11:30-12:35	OUTBD+	10:40	4.4	12:35	4.4
			11:50-14:15	INBD -	11:50-13:00	INBD -	11:50	4.5	14:15	3.9
	19:07	2.7	16:25-20:00	INBD -	17:50-20:00	INBD -	16:25	3.1	20:00	2.8
	22:56	3.1	18:30-23:35	OUTBD+	18:30-23:35	OUTBD+	18:30	2.7	23:35	3.0
		22:05-05:50	INBD -	22:05-00:15	INBD -	22:05	3.0	05:50	2.1	
2010/11/14	05:28	2.1			04:30-05:50	INBD -	04:30	2.1	05:50	2.1
			05:05-07:15	OUTBD+	05:05-06:20	OUTBD+	05:05	2.1	07:15	2.6
	12:53	4.4	11:15-13:15	OUTBD+	12:10-13:15	OUTBD+	11:15	4.3	13:15	4.3
			12:30-14:45	INBD -	12:30-13:40	INBD -	12:30	4.4	14:45	3.9
	20:01	2.4	17:45-20:40	INBD -	18:55-20:40	INBD -	17:45	2.7	20:40	2.5
			19:30-01:15	OUTBD+	19:30-21:55	OUTBD+	19:30	2.4	01:15	3.1
00:39	3.1			22:35-01:15	OUTBD+	22:35	2.8	01:15	3.1	
		23:55-06:50	INBD -	23:55-02:00	INBD -	23:55	3.0	06:50	2.5	

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OPERATIONAL TIME FRAME

YYYY/MM/DD	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW END TIMES	END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2010/11/15	06:25	2.4			05:20-06:50	INBD -	05:20	2.4	06:50	2.5
			05:55-08:25	OUTBD+	05:55-07:20	OUTBD+	05:55	2.4	08:25	2.9
	13:30	4.3	11:45-13:50	OUTBD+	12:45-13:50	OUTBD+	11:45	4.2	13:50	4.2
			13:10-15:10	INBD -	13:10-14:15	INBD -	13:10	4.3	15:10	3.8
	20:43	2.1	18:50-21:10	INBD -	19:50-21:10	INBD -	18:50	2.3	21:10	2.2
		20:20-02:50	OUTBD+	20:20-21:50	OUTBD+	20:20	2.1	02:50	3.3	
2010/11/16	02:14	3.3			01:00-02:50	OUTBD+	01:00	3.2	02:50	3.3
			01:40-07:55	INBD -	01:40-03:35	INBD -	01:40	3.3	07:55	2.8
	07:25	2.7			06:10-07:55	INBD -	06:10	2.8	07:55	2.8
			06:55-09:35	OUTBD+	06:55-08:25	OUTBD+	06:55	2.7	09:35	3.2
	14:03	4.2	12:15-14:25	OUTBD+	13:15-14:25	OUTBD+	12:15	4.1	14:25	4.2
			13:40-15:35	INBD -	13:40-14:45	INBD -	13:40	4.3	15:35	3.8
21:18	1.8	19:45-21:40	INBD -	20:35-21:40	INBD -	19:45	1.9	21:40	1.9	
		20:55-23:25	OUTBD+	20:55-22:05	OUTBD+	20:55	1.8	23:25	2.4	
2010/11/17	03:30	3.6	01:05-04:00	OUTBD+	02:30-04:00	OUTBD+	01:05	3.1	04:00	3.6
			03:00-08:55	INBD -	03:00-04:45	INBD -	03:00	3.6	08:55	3.0
	08:26	3.0			07:10-08:55	INBD -	07:10	3.0	08:55	3.0
			07:55-10:45	OUTBD+	07:55-09:25	OUTBD+	07:55	2.9	10:45	3.4
	14:32	4.2	12:35-14:50	OUTBD+	13:45-14:50	OUTBD+	12:35	4.0	14:50	4.1
			14:10-16:00	INBD -	14:10-15:15	INBD -	14:10	4.2	16:00	3.8
21:50	1.5	20:30-22:10	INBD -	21:10-22:10	INBD -	20:30	1.6	22:10	1.6	
		21:30-23:20	OUTBD+	21:30-22:30	OUTBD+	21:30	1.5	23:20	2.0	
2010/11/18	04:30	3.9	02:40-05:00	OUTBD+	03:40-05:00	OUTBD+	02:40	3.6	05:00	3.9
			04:05-09:50	INBD -	04:05-05:35	INBD -	04:05	3.9	09:50	3.1
	09:23	3.1			08:15-09:50	INBD -	08:15	3.2	09:50	3.1
			08:55-15:20	OUTBD+	08:55-10:25	OUTBD+	08:55	3.1	15:20	4.1
	14:59	4.1			14:10-15:20	OUTBD+	14:10	4.2	15:20	4.1
			14:40-16:25	INBD -	14:40-15:40	INBD -	14:40	4.2	16:25	3.7
22:19	1.2	21:10-22:35	INBD -	21:45-22:35	INBD -	21:10	1.3	22:35	1.3	
		22:05-23:35	OUTBD+	22:05-22:55	OUTBD+	22:05	1.2	23:35	1.7	
2010/11/19	05:21	4.2	03:45-05:45	OUTBD+	04:35-05:45	OUTBD+	03:45	4.0	05:45	4.1
			05:00-10:45	INBD -	05:00-06:15	INBD -	05:00	4.2	10:45	3.3
	10:17	3.2			09:10-10:45	INBD -	09:10	3.3	10:45	3.3
			09:50-15:45	OUTBD+	09:50-11:20	OUTBD+	09:50	3.2	15:45	4.1
	15:25	4.1			14:35-15:45	OUTBD+	14:35	4.2	15:45	4.1
			15:05-16:45	INBD -	15:05-16:05	INBD -	15:05	4.2	16:45	3.8
22:50	1.0	21:45-23:05	INBD -	22:20-23:05	INBD -	21:45	1.1	23:05	1.0	
		22:35-23:55	OUTBD+	22:35-23:20	OUTBD+	22:35	1.0	23:55	1.4	

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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
2010/11/20	06:05	4.4	04:40-06:30	OUTBD+	05:25-06:30	OUTBD+	04:40	4.2	06:30	4.3
			05:45-11:35	INBD -	05:45-06:55	INBD -	05:45	4.4	11:35	3.4
	11:07	3.4			10:05-11:35	INBD -	10:05	3.4	11:35	3.4
			10:40-16:10	OUTBD+	10:40-12:10	OUTBD+	10:40	3.3	16:10	4.1
	15:52	4.2			15:00-16:10	OUTBD+	15:00	4.2	16:10	4.1
23:22	0.8		15:30-17:15	INBD -	15:30-16:35	INBD -	15:30	4.2	17:15	3.8
			22:20-23:35	INBD -	22:55-23:35	INBD -	22:20	0.8	23:35	0.8
			23:10-00:25	OUTBD+	23:10-23:50	OUTBD+	23:10	0.8	00:25	1.2
2010/11/21	06:47	4.5	05:30-07:10	OUTBD+	06:10-07:10	OUTBD+	05:30	4.4	07:10	4.5
			06:30-12:20	INBD -	06:30-07:35	INBD -	06:30	4.5	12:20	3.5
	11:52	3.5			10:50-12:20	INBD -	10:50	3.5	12:20	3.5
			11:25-16:40	OUTBD+	11:25-13:00	OUTBD+	11:25	3.4	16:40	4.1
	16:21	4.2			15:25-16:40	OUTBD+	15:25	4.2	16:40	4.1
23:56	0.6		16:00-17:45	INBD -	16:00-17:05	INBD -	16:00	4.2	17:45	3.8
			23:00-00:10	INBD -	23:30-00:10	INBD -	23:00	0.7	00:10	0.7
			23:45-00:55	OUTBD+	23:45-00:25	OUTBD+	23:45	0.6	00:55	1.0
2010/11/22	07:28	4.6	06:15-07:50	OUTBD+	06:50-07:50	OUTBD+	06:15	4.6	07:50	4.6
			07:10-13:05	INBD -	07:10-08:15	INBD -	07:10	4.7	13:05	3.6
	12:36	3.5			11:35-13:05	INBD -	11:35	3.5	13:05	3.6
			12:05-17:15	OUTBD+	12:05-13:45	OUTBD+	12:05	3.5	17:15	4.1
16:55	4.2			15:55-17:15	OUTBD+	15:55	4.2	17:15	4.1	
			16:30-18:15	INBD -	16:30-17:35	INBD -	16:30	4.2	18:15	3.8
			23:35-00:45	INBD -	00:05-00:45	INBD -	23:35	0.6	00:45	0.6
2010/11/23			00:20-01:30	OUTBD+	00:20-01:00	OUTBD+	00:20	0.5	01:30	0.9
	08:09	4.7	06:55-08:30	OUTBD+	07:35-08:30	OUTBD+	06:55	4.6	08:30	4.6
			07:50-13:50	INBD -	07:50-08:55	INBD -	07:50	4.7	13:50	3.6
	13:18	3.6			12:20-13:50	INBD -	12:20	3.5	13:50	3.6
			12:50-17:55	OUTBD+	12:50-14:30	OUTBD+	12:50	3.5	17:55	4.1
17:34	4.2			16:35-17:55	OUTBD+	16:35	4.2	17:55	4.1	
			17:10-18:55	INBD -	17:10-18:15	INBD -	17:10	4.2	18:55	3.8
2010/11/24	01:14	0.5	00:20-01:25	INBD -	00:50-01:25	INBD -	00:20	0.5	01:25	0.6
			01:00-02:10	OUTBD+	01:00-01:40	OUTBD+	01:00	0.5	02:10	0.9
	08:51	4.7	07:40-09:10	OUTBD+	08:15-09:10	OUTBD+	07:40	4.7	09:10	4.7
			08:35-14:35	INBD -	08:35-09:35	INBD -	08:35	4.7	14:35	3.6
	14:04	3.5			13:05-14:35	INBD -	13:05	3.5	14:35	3.6
18:18	4.1		13:35-18:40	OUTBD+	13:35-15:15	OUTBD+	13:35	3.5	18:40	4.0
				17:20-18:40	OUTBD+	17:20	4.1	18:40	4.0	
			17:55-19:40	INBD -	17:55-19:00	INBD -	17:55	4.1	19:40	3.7

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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
2010/11/25	01:57	0.6	01:00-02:10	INBD -	01:30-02:10	INBD -	01:00	0.6	02:10	0.7
			01:45-02:55	OUTBD+	01:45-02:25	OUTBD+	01:45	0.6	02:55	1.0
	09:33	4.7	08:20-09:50	OUTBD+	08:55-09:50	OUTBD+	08:20	4.7	09:50	4.7
			09:15-11:50	INBD -	09:15-10:15	INBD -	09:15	4.8	11:50	4.1
	14:55	3.4	12:10-15:25	INBD -	13:55-15:25	INBD -	12:10	4.0	15:25	3.5
			14:25-19:30	OUTBD+	14:25-16:05	OUTBD+	14:25	3.4	19:30	3.8
19:08	3.9			18:05-19:30	OUTBD+	18:05	3.9	19:30	3.8	
			18:45-20:35	INBD -	18:45-19:50	INBD -	18:45	3.9	20:35	3.5
2010/11/26	02:42	0.8	01:40-02:55	INBD -	02:15-02:55	INBD -	01:40	0.8	02:55	0.8
			02:30-03:40	OUTBD+	02:30-03:10	OUTBD+	02:30	0.7	03:40	1.1
	10:15	4.8	09:05-10:35	OUTBD+	09:40-10:35	OUTBD+	09:05	4.7	10:35	4.7
			10:00-12:05	INBD -	10:00-10:55	INBD -	10:00	4.8	12:05	4.2
	15:54	3.2	13:35-16:25	INBD -	14:55-16:25	INBD -	13:35	3.7	16:25	3.3
			15:25-20:30	OUTBD+	15:25-17:10	OUTBD+	15:25	3.2	20:30	3.6
20:07	3.7			19:00-20:30	OUTBD+	19:00	3.6	20:30	3.6	
			19:40-21:40	INBD -	19:40-20:55	INBD -	19:40	3.7	21:40	3.3
2010/11/27	03:30	1.1	02:25-03:45	INBD -	03:00-03:45	INBD -	02:25	1.1	03:45	1.1
			03:15-04:35	OUTBD+	03:15-04:00	OUTBD+	03:15	1.0	04:35	1.5
	10:57	4.8	09:45-11:15	OUTBD+	10:20-11:15	OUTBD+	09:45	4.7	11:15	4.7
			10:40-12:35	INBD -	10:40-11:35	INBD -	10:40	4.8	12:35	4.3
	17:01	2.9	14:55-17:30	INBD -	16:05-17:30	INBD -	14:55	3.3	17:30	3.0
			16:35-21:45	OUTBD+	16:35-18:15	OUTBD+	16:35	2.9	21:45	3.4
21:21	3.4			20:10-21:45	OUTBD+	20:10	3.4	21:45	3.4	
			20:50-23:05	INBD -	20:50-22:10	INBD -	20:50	3.4	23:05	3.0
2010/11/28	04:21	1.4	03:05-04:35	INBD -	03:45-04:35	INBD -	03:05	1.5	04:35	1.5
			04:05-05:35	OUTBD+	04:05-04:55	OUTBD+	04:05	1.4	05:35	1.9
	11:39	4.8	10:25-11:55	OUTBD+	11:05-11:55	OUTBD+	10:25	4.7	11:55	4.7
			11:20-13:05	INBD -	11:20-12:15	INBD -	11:20	4.8	13:05	4.3
	18:10	2.5	16:20-18:40	INBD -	17:20-18:40	INBD -	16:20	2.8	18:40	2.6
			17:45-23:20	OUTBD+	17:45-19:15	OUTBD+	17:45	2.5	23:20	3.2
22:54	3.3			21:50-23:20	OUTBD+	21:50	3.2	23:20	3.2	
			22:25-00:50	INBD -	22:25-23:50	INBD -	22:25	3.3	00:50	2.9
2010/11/29	05:18	1.9	03:40-05:35	INBD -	04:35-05:35	INBD -	03:40	2.0	05:35	1.9
			05:00-06:40	OUTBD+	05:00-05:55	OUTBD+	05:00	1.8	06:40	2.3
	12:20	4.7	11:05-12:35	OUTBD+	11:45-12:35	OUTBD+	11:05	4.7	12:35	4.7
			12:05-13:40	INBD -	12:05-12:55	INBD -	12:05	4.8	13:40	4.3
	19:14	2.0	17:40-19:35	INBD -	18:30-19:35	INBD -	17:40	2.3	19:35	2.1
			18:55-01:10	OUTBD+	18:55-20:05	OUTBD+	18:55	2.0	01:10	3.3
00:42	3.3			23:45-01:10	OUTBD+	23:45	3.3	01:10	3.3	

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OPERATIONAL TIME FRAME

YYYY/MM/DD	SLACK WATER		2 KNOT WINDOW		1 KNOT CURRENT		WINDOW TIMES	START HGHTS	WINDOW END TIMES	END HGHTS
	TIMES	HEIGHTS	PERIOD	TRANSIT	PERIOD	TRANSIT				
2010/11/30			00:15-03:20	INBD -	00:15-01:40	INBD -	00:15	3.3	03:20	2.8
	06:21	2.4	03:55-06:40	INBD -	05:30-06:40	INBD -	03:55	2.6	06:40	2.4
			06:00-07:55	OUTBD+	06:00-07:05	OUTBD+	06:00	2.3	07:55	2.9
	13:00	4.7	11:40-13:15	OUTBD+	12:25-13:15	OUTBD+	11:40	4.6	13:15	4.6
			12:45-14:15	INBD -	12:45-13:35	INBD -	12:45	4.7	14:15	4.3
	20:10	1.6	18:55-20:30	INBD -	19:35-20:30	INBD -	18:55	1.7	20:30	1.6
			19:55-21:40	OUTBD+	19:55-20:50	OUTBD+	19:55	1.5	21:40	2.0

PORT METRO VANCOUVER  
 SECOND NARROWS MRA STANDING ORDER  
 TRANSIT PERIODS - MRA VESSELS December 2010  
 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				
2010/12/01	02:26	3.6	00:40-02:50	OUTBD+	01:35-02:50	OUTBD+	00:40	3.3	02:50	3.5
			02:05-07:55	INBD -	02:05-03:20	INBD -	02:05	3.6	07:55	2.9
	07:31	2.8			06:35-07:55	INBD -	06:35	2.8	07:55	2.9
			07:05-09:15	OUTBD+	07:05-08:20	OUTBD+	07:05	2.8	09:15	3.3
	13:40	4.6	12:15-13:55	OUTBD+	13:05-13:55	OUTBD+	12:15	4.5	13:55	4.6
			13:25-14:50	INBD -	13:25-14:15	INBD -	13:25	4.6	14:50	4.2
2010/12/02	21:00	1.1	19:55-21:15	INBD -	20:30-21:15	INBD -	19:55	1.2	21:15	1.2
			20:45-22:10	OUTBD+	20:45-21:30	OUTBD+	20:45	1.1	22:10	1.5
	03:51	3.9	02:25-04:15	OUTBD+	03:10-04:15	OUTBD+	02:25	3.8	04:15	3.9
			03:30-09:10	INBD -	03:30-04:45	INBD -	03:30	4.0	09:10	3.2
2010/12/03	08:44	3.1			07:50-09:10	INBD -	07:50	3.1	09:10	3.2
			08:20-10:40	OUTBD+	08:20-09:35	OUTBD+	08:20	3.1	10:40	3.7
	14:19	4.5	12:40-14:35	OUTBD+	13:40-14:35	OUTBD+	12:40	4.4	14:35	4.5
			14:00-15:30	INBD -	14:00-14:55	INBD -	14:00	4.6	15:30	4.1
	21:47	0.8	20:50-22:00	INBD -	21:20-22:00	INBD -	20:50	0.8	22:00	0.8
			21:35-22:45	OUTBD+	21:35-22:15	OUTBD+	21:35	0.7	22:45	1.1
2010/12/04	04:59	4.3	03:45-05:20	OUTBD+	04:20-05:20	OUTBD+	03:45	4.2	05:20	4.3
			04:40-10:20	INBD -	04:40-05:45	INBD -	04:40	4.3	10:20	3.4
	09:54	3.4			09:00-10:20	INBD -	09:00	3.4	10:20	3.4
			09:30-12:20	OUTBD+	09:30-10:45	OUTBD+	09:30	3.3	12:20	4.1
	14:59	4.5	12:50-15:15	OUTBD+	14:20-15:15	OUTBD+	12:50	4.2	15:15	4.4
			14:40-16:10	INBD -	14:40-15:35	INBD -	14:40	4.5	16:10	4.1
2010/12/04	22:31	0.5	21:40-22:40	INBD -	22:05-22:40	INBD -	21:40	0.5	22:40	0.6
			22:20-23:25	OUTBD+	22:20-22:55	OUTBD+	22:20	0.5	23:25	0.9
	05:56	4.5	04:45-06:15	OUTBD+	05:20-06:15	OUTBD+	04:45	4.5	06:15	4.5
			05:40-11:25	INBD -	05:40-06:35	INBD -	05:40	4.6	11:25	3.6
	10:59	3.5			10:05-11:25	INBD -	10:05	3.5	11:25	3.6
2010/12/04			10:35-15:55	OUTBD+	10:35-11:55	OUTBD+	10:35	3.5	15:55	4.4
	15:39	4.4			14:55-15:55	OUTBD+	14:55	4.4	15:55	4.4
			15:20-16:50	INBD -	15:20-16:15	INBD -	15:20	4.4	16:50	4.0
	23:14	0.4	22:25-23:25	INBD -	22:50-23:25	INBD -	22:25	0.4	23:25	0.4
		23:05-00:05	OUTBD+	23:05-23:35	OUTBD+	23:05	0.4	00:05	0.7	

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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
2010/12/05	06:46	4.7	05:40-07:00	OUTBD+	06:15-07:00	OUTBD+	05:40	4.7	07:00	4.7
			06:30-08:35	INBD -	06:30-07:25	INBD -	06:30	4.7	08:35	4.2
	11:57	3.5	09:50-12:25	INBD -	11:05-12:25	INBD -	09:50	3.8	12:25	3.6
			11:35-16:40	OUTBD+	11:35-12:55	OUTBD+	11:35	3.5	16:40	4.3
	16:21	4.3			15:35-16:40	OUTBD+	15:35	4.4	16:40	4.3
23:56	0.4		16:00-17:35	INBD -	16:00-17:00	INBD -	16:00	4.4	17:35	4.0
			23:05-00:05	INBD -	23:30-00:05	INBD -	23:05	0.4	00:05	0.4
			23:45-00:45	OUTBD+	23:45-00:20	OUTBD+	23:45	0.3	00:45	0.7
2010/12/06	07:30	4.8	06:25-07:45	OUTBD+	07:00-07:45	OUTBD+	06:25	4.8	07:45	4.7
			07:15-09:10	INBD -	07:15-08:10	INBD -	07:15	4.8	09:10	4.3
	12:52	3.5	10:50-13:20	INBD -	12:00-13:20	INBD -	10:50	3.7	13:20	3.6
			12:25-17:25	OUTBD+	12:25-13:55	OUTBD+	12:25	3.5	17:25	4.2
	17:04	4.2			16:10-17:25	OUTBD+	16:10	4.2	17:25	4.2
00:37	0.4		16:40-18:20	INBD -	16:40-17:45	INBD -	16:40	4.3	18:20	3.9
			23:45-00:50	INBD -	00:15-00:50	INBD -	23:45	0.4	00:50	0.5
2010/12/07			00:25-01:30	OUTBD+	00:25-01:00	OUTBD+	00:25	0.4	01:30	0.8
	08:12	4.8	07:05-08:30	OUTBD+	07:40-08:30	OUTBD+	07:05	4.8	08:30	4.7
			07:55-09:45	INBD -	07:55-08:50	INBD -	07:55	4.8	09:45	4.4
	13:43	3.5	11:40-14:10	INBD -	12:50-14:10	INBD -	11:40	3.6	14:10	3.6
			13:15-18:10	OUTBD+	13:15-14:50	OUTBD+	13:15	3.4	18:10	4.0
17:48	4.1				16:50-18:10	OUTBD+	16:50	4.1	18:10	4.0
			17:25-19:10	INBD -	17:25-18:30	INBD -	17:25	4.1	19:10	3.7
2010/12/08	01:17	0.6	00:20-01:30	INBD -	00:50-01:30	INBD -	00:20	0.6	01:30	0.6
			01:05-02:10	OUTBD+	01:05-01:40	OUTBD+	01:05	0.5	02:10	0.9
	08:51	4.8	07:45-09:05	OUTBD+	08:20-09:05	OUTBD+	07:45	4.8	09:05	4.8
			08:35-10:25	INBD -	08:35-09:30	INBD -	08:35	4.8	10:25	4.3
	14:33	3.4	12:30-15:00	INBD -	13:40-15:00	INBD -	12:30	3.6	15:00	3.5
18:33	3.9		14:05-18:55	OUTBD+	14:05-15:45	OUTBD+	14:05	3.4	18:55	3.9
			18:05-20:00	INBD -	18:05-19:15	INBD -	18:05	3.9	20:00	3.5
2010/12/09	01:55	0.8	00:55-02:10	INBD -	01:30-02:10	INBD -	00:55	0.8	02:10	0.9
			01:45-02:55	OUTBD+	01:45-02:25	OUTBD+	01:45	0.8	02:55	1.2
	09:27	4.8	08:20-09:45	OUTBD+	08:55-09:45	OUTBD+	08:20	4.8	09:45	4.7
			09:10-11:00	INBD -	09:10-10:05	INBD -	09:10	4.8	11:00	4.3
	15:23	3.3	13:20-15:55	INBD -	14:25-15:55	INBD -	13:20	3.5	15:55	3.3
19:19	3.7		14:55-19:45	OUTBD+	14:55-16:50	OUTBD+	14:55	3.2	19:45	3.6
			18:50-20:55	INBD -	18:50-20:10	INBD -	18:50	3.7	20:55	3.3

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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				
2010/12/10	02:33	1.1	01:25-02:45	INBD -	02:00-02:45	INBD -	01:25	1.1	02:45	1.1
			02:20-03:35	OUTBD+	02:20-03:05	OUTBD+	02:20	1.1	03:35	1.5
	10:02	4.7	08:50-10:20	OUTBD+	09:25-10:20	OUTBD+	08:50	4.7	10:20	4.7
			09:45-11:40	INBD -	09:45-10:40	INBD -	09:45	4.8	11:40	4.3
	16:17	3.1	14:10-16:50	INBD -	15:15-16:50	INBD -	14:10	3.3	16:50	3.1
20:11	3.4	15:45-20:40	OUTBD+	15:45-20:40	OUTBD+	15:45	3.0	20:40	3.4	
		19:35-22:00	INBD -	19:35-21:05	INBD -	19:35	3.4	22:00	3.0	
2010/12/11	03:10	1.4	01:50-03:25	INBD -	02:35-03:25	INBD -	01:50	1.5	03:25	1.5
			02:55-04:25	OUTBD+	02:55-03:45	OUTBD+	02:55	1.4	04:25	1.9
	10:35	4.7	09:20-10:55	OUTBD+	10:00-10:55	OUTBD+	09:20	4.6	10:55	4.6
			10:20-12:10	INBD -	10:20-11:15	INBD -	10:20	4.7	12:10	4.2
	17:12	2.8	15:05-17:50	INBD -	16:10-17:50	INBD -	15:05	3.1	17:50	2.9
21:11	3.2	16:40-21:45	OUTBD+	16:40-21:45	OUTBD+	16:40	2.8	21:45	3.2	
		20:35-23:30	INBD -	20:35-22:15	INBD -	20:35	3.2	23:30	2.7	
2010/12/12	03:47	1.9	02:00-04:05	INBD -	03:00-04:05	INBD -	02:00	2.0	04:05	1.9
			03:25-05:15	OUTBD+	03:25-04:30	OUTBD+	03:25	1.8	05:15	2.3
	11:08	4.6	09:45-11:25	OUTBD+	10:30-11:25	OUTBD+	09:45	4.5	11:25	4.5
			10:50-12:45	INBD -	10:50-11:50	INBD -	10:50	4.6	12:45	4.1
	18:08	2.5	16:00-18:45	INBD -	17:05-18:45	INBD -	16:00	2.8	18:45	2.6
22:29	3.0	17:40-23:05	OUTBD+	17:40-23:05	OUTBD+	17:40	2.5	23:05	3.0	
		21:45-04:50	INBD -	21:45-23:45	INBD -	21:45	3.0	04:50	2.3	
2010/12/13	04:26	2.3			03:30-04:50	INBD -	03:30	2.2	04:50	2.3
			04:00-06:15	OUTBD+	04:00-05:15	OUTBD+	04:00	2.2	06:15	2.8
	11:40	4.5	10:05-12:00	OUTBD+	10:55-12:00	OUTBD+	10:05	4.4	12:00	4.4
			11:20-13:20	INBD -	11:20-12:25	INBD -	11:20	4.5	13:20	4.0
	19:01	2.2	17:00-19:35	INBD -	18:00-19:35	INBD -	17:00	2.5	19:35	2.3
		18:30-00:50	OUTBD+	18:30-20:25	OUTBD+	18:30	2.2	00:50	3.1	
00:06	3.1			22:30-00:50	OUTBD+	22:30	2.9	00:50	3.1	
		23:25-05:45	INBD -	23:25-01:45	INBD -	23:25	3.0	05:45	2.8	
2010/12/14	05:12	2.7			03:45-05:45	INBD -	03:45	2.7	05:45	2.8
			04:40-07:30	OUTBD+	04:40-06:15	OUTBD+	04:40	2.7	07:30	3.3
	12:13	4.4	10:20-12:35	OUTBD+	11:25-12:35	OUTBD+	10:20	4.3	12:35	4.3
			11:50-13:50	INBD -	11:50-13:00	INBD -	11:50	4.4	13:50	3.9
	19:47	1.9	17:55-20:15	INBD -	18:55-20:15	INBD -	17:55	2.1	20:15	2.0
		19:20-02:40	OUTBD+	19:20-20:50	OUTBD+	19:20	1.9	02:40	3.3	
2010/12/15	01:51	3.3			00:25-02:40	OUTBD+	00:25	3.1	02:40	3.3
	06:10	3.1	01:10-06:50	INBD -	01:10-06:50	INBD -	01:10	3.3	06:50	3.2
			05:25-09:20	OUTBD+	05:25-07:25	OUTBD+	05:25	3.1	09:20	3.8
	12:45	4.3	10:10-13:05	OUTBD+	11:50-13:05	OUTBD+	10:10	4.0	13:05	4.2
			12:20-14:25	INBD -	12:20-13:30	INBD -	12:20	4.3	14:25	3.8
20:27	1.6	18:50-20:50	INBD -	19:40-20:50	INBD -	18:50	1.8	20:50	1.7	
		20:05-22:30	OUTBD+	20:05-21:15	OUTBD+	20:05	1.6	22:30	2.2	

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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				
2010/12/16	03:21	3.7	00:40-04:10	OUTBD+	02:05-04:10	OUTBD+	00:40	3.1	04:10	3.6
	07:22	3.4	02:45-08:05	INBD -	02:45-08:05	INBD -	02:45	3.6	08:05	3.4
	13:17	4.2	06:30-13:40	OUTBD+	06:30-08:45	OUTBD+	06:30	3.4	13:40	4.2
			12:20-13:40	OUTBD+	12:20-13:40	OUTBD+	12:20	4.3	13:40	4.2
	21:05	1.3	12:50-14:55	INBD -	12:50-14:05	INBD -	12:50	4.3	14:55	3.8
			19:40-21:25	INBD -	20:25-21:25	INBD -	19:40	1.4	21:25	1.4
		20:45-22:40	OUTBD+	20:45-21:45	OUTBD+	20:45	1.3	22:40	1.8	
2010/12/17	04:26	4.0	02:20-05:05	OUTBD+	03:25-05:05	OUTBD+	02:20	3.6	05:05	3.9
	08:38	3.6	03:55-09:20	INBD -	03:55-09:20	INBD -	03:55	4.0	09:20	3.6
			07:50-14:15	OUTBD+	07:50-10:05	OUTBD+	07:50	3.6	14:15	4.1
	13:51	4.2			12:45-14:15	OUTBD+	12:45	4.2	14:15	4.1
			13:25-15:25	INBD -	13:25-14:40	INBD -	13:25	4.2	15:25	3.8
	21:42	1.1	20:30-22:00	INBD -	21:05-22:00	INBD -	20:30	1.1	22:00	1.1
21:25-23:00			OUTBD+	21:25-22:15	OUTBD+	21:25	1.0	23:00	1.5	
2010/12/18	05:16	4.2	03:30-05:50	OUTBD+	04:25-05:50	OUTBD+	03:30	4.0	05:50	4.2
	09:46	3.7	04:50-10:25	INBD -	04:50-06:40	INBD -	04:50	4.3	10:25	3.7
			08:05-10:25	INBD -	08:05-10:25	INBD -	08:05	3.8	10:25	3.7
	14:27	4.2	09:05-14:50	OUTBD+	09:05-11:15	OUTBD+	09:05	3.7	14:50	4.2
			13:15-14:50	OUTBD+	13:15-14:50	OUTBD+	13:15	4.2	14:50	4.2
	22:19	0.8	14:00-16:00	INBD -	14:00-15:15	INBD -	14:00	4.3	16:00	3.8
21:15-22:35			INBD -	21:50-22:35	INBD -	21:15	0.9	22:35	0.9	
		22:05-23:25	OUTBD+	22:05-22:50	OUTBD+	22:05	0.8	23:25	1.2	
2010/12/19	05:59	4.5	04:30-06:25	OUTBD+	05:15-06:25	OUTBD+	04:30	4.3	06:25	4.4
	10:43	3.7	05:35-11:20	INBD -	05:35-07:00	INBD -	05:35	4.5	11:20	3.8
			09:25-11:20	INBD -	09:25-11:20	INBD -	09:25	3.8	11:20	3.8
	15:07	4.3	10:10-15:30	OUTBD+	10:10-12:05	OUTBD+	10:10	3.7	15:30	4.2
			14:00-15:30	OUTBD+	14:00-15:30	OUTBD+	14:00	4.3	15:30	4.2
	22:57	0.6	14:40-16:35	INBD -	14:40-15:50	INBD -	14:40	4.3	16:35	3.8
21:55-23:10			INBD -	22:30-23:10	INBD -	21:55	0.7	23:10	0.7	
		22:45-23:55	OUTBD+	22:45-23:25	OUTBD+	22:45	0.6	23:55	1.0	
2010/12/20	06:38	4.6	05:20-07:00	OUTBD+	06:00-07:00	OUTBD+	05:20	4.5	07:00	4.6
	11:32	3.7	06:20-12:05	INBD -	06:20-07:30	INBD -	06:20	4.6	12:05	3.8
			10:25-12:05	INBD -	10:25-12:05	INBD -	10:25	3.7	12:05	3.8
	15:50	4.3	11:00-16:10	OUTBD+	11:00-12:45	OUTBD+	11:00	3.7	16:10	4.2
			14:50-16:10	OUTBD+	14:50-16:10	OUTBD+	14:50	4.3	16:10	4.2
	23:37	0.5	15:25-17:15	INBD -	15:25-16:30	INBD -	15:25	4.3	17:15	3.9
22:40-23:50			INBD -	23:10-23:50	INBD -	22:40	0.5	23:50	0.5	
		23:25-00:30	OUTBD+	23:25-00:05	OUTBD+	23:25	0.4	00:30	0.8	

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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
2010/12/21	07:16	4.7	06:05-07:35	OUTBD+	06:40-07:35	OUTBD+	06:05	4.7	07:35	4.7
			07:00-12:45	INBD -	07:00-08:00	INBD -	07:00	4.7	12:45	3.7
	12:17	3.7			11:20-12:45	INBD -	11:20	3.7	12:45	3.7
					11:50-16:55	OUTBD+	11:50	3.6	16:55	4.3
	16:37	4.3			15:40-16:55	OUTBD+	15:40	4.3	16:55	4.3
				16:15-17:55	INBD -	16:15	4.3	17:55	3.9	
	00:18	0.4	23:25-00:30	INBD -	23:55-00:30	INBD -	23:25	0.4	00:30	0.4
2010/12/22			00:05-01:10	OUTBD+	00:05-00:45	OUTBD+	00:05	0.3	01:10	0.7
	07:52	4.8	06:45-08:10	OUTBD+	07:20-08:10	OUTBD+	06:45	4.8	08:10	4.7
			07:35-09:45	INBD -	07:35-08:30	INBD -	07:35	4.8	09:45	4.3
	13:03	3.6	10:50-13:30	INBD -	12:10-13:30	INBD -	10:50	3.9	13:30	3.6
			12:40-17:45	OUTBD+	12:40-14:00	OUTBD+	12:40	3.5	17:45	4.2
	17:27	4.3			16:35-17:45	OUTBD+	16:35	4.3	17:45	4.2
			17:05-18:40	INBD -	17:05-18:05	INBD -	17:05	4.3	18:40	3.9
2010/12/23	00:59	0.4	00:10-01:10	INBD -	00:35-01:10	INBD -	00:10	0.4	01:10	0.4
			00:50-01:50	OUTBD+	00:50-01:25	OUTBD+	00:50	0.4	01:50	0.7
	08:28	4.8	07:25-08:45	OUTBD+	07:55-08:45	OUTBD+	07:25	4.8	08:45	4.8
			08:15-10:00	INBD -	08:15-09:05	INBD -	08:15	4.9	10:00	4.4
	13:50	3.4	12:00-14:15	INBD -	13:05-14:15	INBD -	12:00	3.6	14:15	3.4
				13:30-18:35	OUTBD+	13:30	3.4	18:35	4.1	
	18:20	4.1			17:35-18:35	OUTBD+	17:35	4.1	18:35	4.1
			18:00-19:30	INBD -	18:00-18:55	INBD -	18:00	4.2	19:30	3.8
2010/12/24	01:42	0.5	00:50-01:55	INBD -	01:20-01:55	INBD -	00:50	0.5	01:55	0.6
			01:30-02:35	OUTBD+	01:30-02:05	OUTBD+	01:30	0.5	02:35	0.9
	09:03	4.9	08:00-09:20	OUTBD+	08:35-09:20	OUTBD+	08:00	4.9	09:20	4.8
			08:50-10:20	INBD -	08:50-09:35	INBD -	08:50	4.9	10:20	4.5
	14:42	3.1	13:05-15:05	INBD -	13:55-15:05	INBD -	13:05	3.4	15:05	3.2
				14:20-19:35	OUTBD+	14:20	3.1	19:35	3.9	
	19:17	3.9			18:35-19:35	OUTBD+	18:35	3.9	19:35	3.9
			19:00-20:30	INBD -	19:00-19:55	INBD -	19:00	4.0	20:30	3.6
2010/12/25	02:25	0.8	01:30-02:35	INBD -	02:00-02:35	INBD -	01:30	0.8	02:35	0.9
			02:15-03:20	OUTBD+	02:15-02:50	OUTBD+	02:15	0.8	03:20	1.2
	09:38	4.9	08:40-09:50	OUTBD+	09:10-09:50	OUTBD+	08:40	4.9	09:50	4.9
			09:25-10:50	INBD -	09:25-10:10	INBD -	09:25	5.0	10:50	4.5
	15:37	2.8	14:05-16:00	INBD -	14:55-16:00	INBD -	14:05	3.0	16:00	2.9
				15:15-20:40	OUTBD+	15:15	2.8	20:40	3.7	
	20:21	3.7			19:35-20:40	OUTBD+	19:35	3.7	20:40	3.7
			20:00-21:40	INBD -	20:00-21:00	INBD -	20:00	3.7	21:40	3.4

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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				
2010/12/26	03:09	1.2	02:05-03:20	INBD -	02:40-03:20	INBD -	02:05	1.2	03:20	1.3
			02:55-04:10	OUTBD+	02:55-03:35	OUTBD+	02:55	1.2	04:10	1.6
	10:13	4.9	09:10-10:25	OUTBD+	09:45-10:25	OUTBD+	09:10	4.9	10:25	4.9
			10:00-11:25	INBD -	10:00-10:45	INBD -	10:00	5.0	11:25	4.5
	16:36	2.4	15:10-16:55	INBD -	15:55-16:55	INBD -	15:10	2.6	16:55	2.4
			16:15-21:55	OUTBD+	16:15-17:25	OUTBD+	16:15	2.4	21:55	3.4
	21:36	3.5			20:50-21:55	OUTBD+	20:50	3.4	21:55	3.4
			21:15-23:10	INBD -	21:15-22:20	INBD -	21:15	3.5	23:10	3.1
2010/12/27	03:55	1.7	02:35-04:10	INBD -	03:20-04:10	INBD -	02:35	1.8	04:10	1.8
			03:40-05:05	OUTBD+	03:40-04:30	OUTBD+	03:40	1.7	05:05	2.2
	10:49	4.9	09:40-11:05	OUTBD+	10:20-11:05	OUTBD+	09:40	4.9	11:05	4.8
			10:35-12:00	INBD -	10:35-11:20	INBD -	10:35	4.9	12:00	4.5
	17:38	2.0	16:15-18:00	INBD -	17:00-18:00	INBD -	16:15	2.2	18:00	2.0
			17:20-19:35	OUTBD+	17:20-18:20	OUTBD+	17:20	2.0	19:35	2.5
	23:07	3.3	21:00-23:30	OUTBD+	22:15-23:30	OUTBD+	21:00	3.0	23:30	3.3
			22:45-01:10	INBD -	22:45-00:00	INBD -	22:45	3.4	01:10	3.0
2010/12/28	04:46	2.3	02:50-05:05	INBD -	04:00-05:05	INBD -	02:50	2.5	05:05	2.4
			04:25-06:15	OUTBD+	04:25-05:25	OUTBD+	04:25	2.3	06:15	2.8
	11:26	4.8	10:10-11:40	OUTBD+	10:50-11:40	OUTBD+	10:10	4.8	11:40	4.8
			11:10-12:40	INBD -	11:10-12:00	INBD -	11:10	4.8	12:40	4.4
	18:40	1.6	17:20-19:00	INBD -	18:05-19:00	INBD -	17:20	1.7	19:00	1.6
			18:25-20:20	OUTBD+	18:25-19:20	OUTBD+	18:25	1.6	20:20	2.1
	00:54	3.5	22:55-01:20	OUTBD+	00:00-01:20	OUTBD+	22:55	3.2	01:20	3.4
2010/12/29			00:30-06:10	INBD -	00:30-02:00	INBD -	00:30	3.5	06:10	2.9
	05:47	2.9			04:45-06:10	INBD -	04:45	2.9	06:10	2.9
			05:20-07:45	OUTBD+	05:20-06:40	OUTBD+	05:20	2.9	07:45	3.5
	12:06	4.7	10:30-12:25	OUTBD+	11:25-12:25	OUTBD+	10:30	4.6	12:25	4.6
			11:50-13:20	INBD -	11:50-12:40	INBD -	11:50	4.7	13:20	4.3
	19:40	1.2	18:25-19:55	INBD -	19:05-19:55	INBD -	18:25	1.3	19:55	1.3
		19:25-21:00	OUTBD+	19:25-20:15	OUTBD+	19:25	1.2	21:00	1.6	
2010/12/30	02:40	3.8	00:50-03:10	OUTBD+	01:45-03:10	OUTBD+	00:50	3.5	03:10	3.8
			02:15-07:35	INBD -	02:15-04:00	INBD -	02:15	3.8	07:35	3.4
	07:04	3.3			05:35-07:35	INBD -	05:35	3.4	07:35	3.4
			06:30-13:05	OUTBD+	06:30-08:10	OUTBD+	06:30	3.3	13:05	4.5
	12:49	4.5			12:00-13:05	OUTBD+	12:00	4.6	13:05	4.5
			12:30-14:10	INBD -	12:30-13:30	INBD -	12:30	4.6	14:10	4.1
	20:36	0.9	19:30-20:50	INBD -	20:05-20:50	INBD -	19:30	0.9	20:50	1.0
			20:20-21:45	OUTBD+	20:20-21:10	OUTBD+	20:20	0.9	21:45	1.3

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OPERATIONAL TIME FRAME

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				
2010/12/31	04:05	4.1	02:25-04:35	OUTBD+	03:15-04:35	OUTBD+	02:25	4.0	04:35	4.1
			03:40-09:05	INBD -	03:40-05:20	INBD -	03:40	4.1	09:05	3.7
	08:32	3.6	07:55-13:55	OUTBD+	07:55-09:45	OUTBD+	07:55	3.6	13:55	4.4
			12:40-13:55	OUTBD+	12:40	4.5	13:55	4.4		
	13:35	4.4	13:10-15:00	INBD -	13:10-14:15	INBD -	13:10	4.5	15:00	4.0
			20:25-21:40	INBD -	21:00-21:40	INBD -	20:25	0.7	21:40	0.8
			21:15-21:55	OUTBD+	21:15	0.7	21:55	0.9		
			21:15-22:30	INBD -	21:15	0.7	22:30	1.1		