

PACIFIC PILOTAGE AUTHORITY

1000 – 1130 West Pender Street
Vancouver, B.C
V6E 4A4



NOTICE TO INDUSTRY

Date Issued: 01 October 2025

Notice Number: 04/2025

Subject: Eastbound nighttime transit trials for Second Narrows

Geographic Area: Vancouver Harbour (TCZ-2)

Application: These guidelines apply to piloted vessels transiting Second Narrows eastbound.

Details:

1. The new leading/range and sector lights at Berry Point are now operational. The eastbound (inbound) transit/course through Second Narrows on these new range lights is 087° (T).
2. The westbound (outbound) transit through the Second Narrows bridges is still 266° (T).
3. The controlling depths for Second Narrows' eastbound transits have been updated based on the re-orientation of the inbound transit from 086° (T) to 087° (T). The new eastbound controlling depths for Second Narrows, for the 087° (T) range lights, are provided at the end of this notice.
4. PPA anticipates that the online tidal calculator for Second Narrows and VFPA's Centralized Scheduling System (CSS) will be updated for the new controlling depths by 03 October 2025.
5. PPA anticipates that CHS will update the relevant ENC's for the new leading/range and sector lights by next week.
6. The live trials for Second Narrows are divided into two phases as mentioned below:
 - i. Phase 1 - Testing of the new range/leading and sector lights at night: This phase has already commenced with pilots using ships that are already permitted to transit Second Narrows during the hours of darkness, i.e., vessels with $L_{OA} < 230$ metres. This phase will last for a few weeks until fifteen (15) eastbound nighttime transits are completed. In the case where the transit window could potentially allow multiple ships to transit in sequence, there will be a 1.5 nautical mile separation between the eastbound vessels to allow for the rear ship to have a clear view of the range lights.
 - ii. Phase 2 - Eastbound (inbound) transits of larger ships at night: Following phase 1, providing there are no navigation safety concerns, the pilots will commence live trials for eastbound (inbound) transits of larger ships, including empty Aframax tankers, i.e., vessels with L_{OA} between 230 and 250 metres. This phase will involve ten (10) transits of larger ships, including empty Aframax tankers. The same tug packages and tidal current restrictions outlined in the port information

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guide will apply for these transits. Eastbound (inbound) nighttime transit windows that occur within tidal cycles which have current velocities of more than 3.5 knots will not be used for the phase 2 trials.

Please contact PPA at marineops@ppa.gc.ca for any queries or clarifications on these guidelines.

SECOND NARROWS
Control Depths for Various Vessel Widths
 based on TCZ-2 Beam Factor

Beam Factor: 2.85

Channel widths are rounded to the nearest decimeter which is deemed appropriate when analysis is based on a 1.0m surface grid.

Vessel Beam	Channel Width Required	Inbound (87°) Control Depth	Outbound (266°) Control Depth	Vessel Beam	Ch. Width Required	Inbound (87°) Control Depth	Outbound (266°) Control Depth	Vessel Beam	Ch. Width Required	Inbound (87°) Control Depth	Outbound (266°) Control Depth
20.0	57.0	15.3	14.4	30.0	85.5	12.3	12.8	40.0	114.0	10.4	11.2
20.1	57.3	15.3	14.4	30.1	85.8	12.3	12.8	40.1	114.3	10.2	11.2
20.2	57.6	15.2	14.4	30.2	86.1	12.3	12.8	40.2	114.6	10.2	11.2
20.3	57.9	15.2	14.4	30.3	86.4	12.3	12.8	40.3	114.9	10.2	11.2
20.4	58.1	15.2	14.4	30.4	86.6	12.3	12.4	40.4	115.1	10.2	11.1
20.5	58.4	15.2	14.4	30.5	86.9	12.3	12.4	40.5	115.4	10.2	11.1
20.6	58.7	15.2	14.4	30.6	87.2	12.3	12.4	40.6	115.7	10.2	11.1
20.7	59.0	15.2	14.4	30.7	87.5	12.2	12.4	40.7	116.0	9.8	11.1
20.8	59.3	15.1	14.4	30.8	87.8	12.2	12.4	40.8	116.3	9.8	11.1
20.9	59.6	15.1	14.4	30.9	88.1	12.2	12.4	40.9	116.6	9.8	11.1
21.0	59.9	15.1	14.4	31.0	88.4	12.2	12.4	41.0	116.9	9.8	11.1
21.1	60.1	15.1	14.4	31.1	88.6	12.2	12.4	41.1	117.1	9.8	11.0
21.2	60.4	15.1	14.4	31.2	88.9	12.2	12.4	41.2	117.4	9.8	11.0
21.3	60.7	15.1	14.3	31.3	89.2	12.2	12.4	41.3	117.7	9.7	11.0
21.4	61.0	15.1	14.3	31.4	89.5	12.2	12.4	41.4	118.0	9.6	11.0
21.5	61.3	15.1	14.3	31.5	89.8	12.2	12.4	41.5	118.3	9.6	11.0
21.6	61.6	15.1	14.3	31.6	90.1	12.2	12.4	41.6	118.6	9.6	11.0
21.7	61.8	15.1	14.3	31.7	90.3	12.2	12.4	41.7	118.8	9.6	11.0
21.8	62.1	15.1	14.3	31.8	90.6	12.2	12.4	41.8	119.1	9.6	10.9
21.9	62.4	15.1	14.3	31.9	90.9	12.2	12.4	41.9	119.4	9.6	10.9
22.0	62.7	15.1	14.3	32.0	91.2	12.2	12.4	42.0	119.7	9.3	10.9
22.1	63.0	14.9	14.3	32.1	91.5	12.2	12.4	42.1	120.0	9.3	10.9
22.2	63.3	14.9	14.3	32.2	91.8	12.1	12.4	42.2	120.3	9.2	10.9
22.3	63.6	14.7	14.3	32.3	92.1	12.0	12.4	42.3	120.6	9.2	10.7
22.4	63.8	14.7	14.3	32.4	92.3	12.0	12.4	42.4	120.8	9.2	10.7
22.5	64.1	14.7	14.3	32.5	92.6	12.0	12.4	42.5	121.1	9.2	10.7
22.6	64.4	14.7	14.3	32.6	92.9	12.0	12.4	42.6	121.4	9.0	10.7

SECOND NARROWS
Control Depths for Various Vessel Widths
 based on TCZ-2 Beam Factor

Beam Factor: 2.85

Channel widths are rounded to the nearest decimeter which is deemed appropriate when analysis is based on a 1.0m surface grid.

Vessel Beam	Channel Width Required	Inbound (87°) Control Depth	Outbound (266°) Control Depth	Vessel Beam	Ch. Width Required	Inbound (87°) Control Depth	Outbound (266°) Control Depth	Vessel Beam	Ch. Width Required	Inbound (87°) Control Depth	Outbound (266°) Control Depth
22.7	64.7	14.6	14.3	32.7	93.2	12.0	12.4	42.7	121.7	9.0	10.7
22.8	65.0	14.6	14.3	32.8	93.5	12.0	12.4	42.8	122.0	8.9	10.7
22.9	65.3	14.5	14.3	32.9	93.8	11.9	12.4	42.9	122.3	8.9	10.6
23.0	65.6	14.5	14.3	33.0	94.1	11.8	12.4	43.0	122.6	8.9	10.6
23.1	65.8	14.5	14.3	33.1	94.3	11.8	12.4	43.1	122.8	8.9	10.6
23.2	66.1	14.5	14.3	33.2	94.6	11.8	12.2	43.2	123.1	8.9	10.6
23.3	66.4	14.5	14.3	33.3	94.9	11.8	12.2	43.3	123.4	8.9	10.6
23.4	66.7	14.4	14.3	33.4	95.2	11.8	12.2	43.4	123.7	8.8	10.5
23.5	67.0	14.4	14.3	33.5	95.5	11.8	12.2	43.5	124.0	8.8	10.5
23.6	67.3	14.4	14.3	33.6	95.8	11.5	12.2	43.6	124.3	8.8	10.5
23.7	67.5	14.4	14.3	33.7	96.0	11.5	12.2	43.7	124.5	8.8	10.5
23.8	67.8	14.4	14.3	33.8	96.3	11.5	12.2	43.8	124.8	8.8	10.1
23.9	68.1	14.4	14.3	33.9	96.6	11.5	12.1	43.9	125.1	8.8	10.1
24.0	68.4	14.4	14.3	34.0	96.9	11.5	12.1	44.0	125.4	8.8	10.1
24.1	68.7	14.3	14.2	34.1	97.2	11.5	12.1	44.1	125.7	8.8	10.1
24.2	69.0	14.2	14.2	34.2	97.5	11.5	12.1	44.2	126.0	8.8	10.1
24.3	69.3	14.2	14.2	34.3	97.8	11.5	12.1	44.3	126.3	8.8	10.1
24.4	69.5	14.2	14.2	34.4	98.0	11.4	12.1	44.4	126.5	8.8	10.1
24.5	69.8	14.2	14.2	34.5	98.3	11.4	12.1	44.5	126.8	8.8	10.1
24.6	70.1	14.2	13.8	34.6	98.6	11.4	12.1	44.6	127.1	8.8	10.1
24.7	70.4	14.2	13.8	34.7	98.9	11.4	12.1	44.7	127.4	8.7	9.8
24.8	70.7	14.2	13.8	34.8	99.2	11.4	12.1	44.8	127.7	8.7	9.8
24.9	71.0	14.1	13.8	34.9	99.5	11.4	12.1	44.9	128.0	8.6	9.8
25.0	71.3	14.1	13.8	35.0	99.8	11.2	12.1	45.0	128.3	8.4	9.8
25.1	71.5	14.1	13.8	35.1	100.0	11.2	12.1	45.1	128.5	8.4	9.8
25.2	71.8	14.1	13.8	35.2	100.3	11.2	12.1	45.2	128.8	8.3	9.6
25.3	72.1	14.1	13.6	35.3	100.6	11.2	12.1	45.3	129.1	8.1	9.6

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25.4	72.4	14.1	13.6	35.4	100.9	11.2	12.1	45.4	129.4	8.1	9.6
25.5	72.7	14.1	13.6	35.5	101.2	11.2	12.1	45.5	129.7	7.9	9.6
25.6	73.0	14.1	13.6	35.6	101.5	11.2	12.1	45.6	130.0	7.9	9.6
25.7	73.2	14.1	13.6	35.7	101.7	11.2	12.1	45.7	130.2	7.9	9.6
25.8	73.5	14.1	13.6	35.8	102.0	11.2	12.1	45.8	130.5	7.9	9.6
25.9	73.8	14.1	13.6	35.9	102.3	11.2	12.1	45.9	130.8	7.5	9.6
26.0	74.1	14.1	13.5	36.0	102.6	11.2	12.1	46.0	131.1	7.3	9.3
26.1	74.4	14.1	13.5	36.1	102.9	11.2	12.0	46.1	131.4	7.1	9.2
26.2	74.7	14.1	13.5	36.2	103.2	11.2	12.0	46.2	131.7	7.1	9.2
26.3	75.0	14.1	13.5	36.3	103.5	11.1	12.0	46.3	132.0	7.1	9.2
26.4	75.2	14.1	13.5	36.4	103.7	11.1	12.0	46.4	132.2	7.1	9.2
26.5	75.5	14.1	13.5	36.5	104.0	11.1	12.0	46.5	132.5	7.1	9.2
26.6	75.8	14.1	13.5	36.6	104.3	11.1	12.0	46.6	132.8	7.1	9.0
26.7	76.1	14.0	13.5	36.7	104.6	11.1	12.0	46.7	133.1	7.1	9.0
26.8	76.4	14.0	13.5	36.8	104.9	11.1	12.0	46.8	133.4	7.1	9.0
26.9	76.7	14.0	13.5	36.9	105.2	11.1	12.0	46.9	133.7	6.4	8.9
27.0	77.0	13.9	13.5	37.0	105.5	11.1	11.8	47.0	134.0	6.2	8.9
27.1	77.2	13.9	13.5	37.1	105.7	11.1	11.8	47.1	134.2	6.2	8.9
27.2	77.5	13.9	13.5	37.2	106.0	11.1	11.8	47.2	134.5	6.2	8.9
27.3	77.8	13.9	13.5	37.3	106.3	11.0	11.8	47.3	134.8	6.2	8.9
27.4	78.1	13.7	13.5	37.4	106.6	11.0	11.8	47.4	135.1	6.2	8.9
27.5	78.4	13.7	13.5	37.5	106.9	11.0	11.8	47.5	135.4	6.2	8.8
27.6	78.7	13.6	13.5	37.6	107.2	11.0	11.8	47.6	135.7	6.0	8.8
27.7	78.9	13.6	13.5	37.7	107.4	11.0	11.5	47.7	135.9	5.8	8.8
27.8	79.2	13.6	13.5	37.8	107.7	11.0	11.5	47.8	136.2	5.8	8.8
27.9	79.5	13.6	13.5	37.9	108.0	10.9	11.5	47.9	136.5	5.8	8.8
28.0	79.8	13.6	13.5	38.0	108.3	10.9	11.5	48.0	136.8	5.8	8.8

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Vessel Beam	Channel Width Required	Inbound (87°) Control Depth	Outbound (266°) Control Depth	Vessel Beam	Ch. Width Required	Inbound (87°) Control Depth	Outbound (266°) Control Depth	Vessel Beam	Ch. Width Required	Inbound (87°) Control Depth	Outbound (266°) Control Depth
28.1	80.1	13.5	13.5	38.1	108.6	10.9	11.5	48.1	137.1	5.8	8.8
28.2	80.4	13.5	13.5	38.2	108.9	10.9	11.5				
28.3	80.7	13.4	13.5	38.3	109.2	10.7	11.4				
28.4	80.9	13.4	13.5	38.4	109.4	10.7	11.4				
28.5	81.2	13.4	13.3	38.5	109.7	10.7	11.4				
28.6	81.5	13.2	13.3	38.6	110.0	10.7	11.4				
28.7	81.8	13.2	13.3	38.7	110.3	10.7	11.4				
28.8	82.1	13.2	13.3	38.8	110.6	10.7	11.4				
28.9	82.4	13.2	13.1	38.9	110.9	10.7	11.4				
29.0	82.7	13.2	13.1	39.0	111.2	10.6	11.4				
29.1	82.9	13.2	13.1	39.1	111.4	10.6	11.2				
29.2	83.2	13.2	13.1	39.2	111.7	10.6	11.2				
29.3	83.5	12.7	13.1	39.3	112.0	10.5	11.2				
29.4	83.8	12.6	13.1	39.4	112.3	10.5	11.2				
29.5	84.1	12.6	13.1	39.5	112.6	10.5	11.2				
29.6	84.4	12.6	12.9	39.6	112.9	10.5	11.2				
29.7	84.6	12.6	12.8	39.7	113.1	10.5	11.2				
29.8	84.9	12.6	12.8	39.8	113.4	10.5	11.2				
29.9	85.2	12.6	12.8	39.9	113.7	10.4	11.2				