

Lyttelton Port - Standard Passage Plan Pack



Issued: 09/04/2024

Welcome to Lyttelton Port. The dual Purpose of this document is to:

1. Provide advance information to Masters of vessels visiting to Lyttelton Port in relation to;
 - a. key port information
 - b. the Master Pilot Exchange (MPX) Document
 - c. the standard passage plans that LPC Pilots work to

2. Provide LPC Pilots with a standardised and agreed planning framework upon which the Master Pilot Exchange (MPX) can be based.

In all instances the MPX will be conducted prior to entry to or departure from the Port, and will take into consideration the conditions on the day. The purpose of the MPX is to create a 'shared mental model' and subsequent agreement between the Pilot and the Master in advance of the vessel transit.

If agreement is not able to be reached, then the Pilotage will not proceed.

Section 1: Port Information

Anchorage

The main anchorage for vessels waiting for a berth is a combined general anchorage and quarantine anchorage situated in position: Latitude 43° 33.0' South, Longitude 172° 50.0' East (approximately 2.5 nautical miles bearing 026 degrees (True) from Godley Head).

Communication

A 24/7 visual and listening watch is maintained by Lyttelton Harbour Radio. Communication is available on VHF channels 16, 12 and 63.

Port Navigation:

The pilot station BRAVO is situated two miles ENE from Godley Head (Latitude: 43° 34.91' South, Longitude: 172° 51.22' East).

The pilot station ALPHA is typically used in heavy weather/sea conditions (Latitude: 43° 34.22' South, Longitude: 172° 52.93' East).

Pilotage

Pilotage is compulsory for all vessels over 500GT or over 40m LOA, unless exemption is obtained from Maritime New Zealand.

LPC pilots use a Navicom Dynamic Harbour Pilot Position (PPU) monitoring system to enable highly accurate monitoring when manoeuvring large vessels in and out of the harbour.

The Master Pilot Exchange (MPX) process will result in an agreed plan for the safe transit of the vessel into or out of Lyttelton Port.

Wind

In addition to specific vessel type and berth location wind limits, Lyttelton Port has an overall wind limit of 35 knots (sustained) beyond which arrivals into the Port will be suspended. Strong North Westerly and South Westerly winds are identified as a specific hazards for visiting vessels, and these hazards are identified within the generic plans contained in this document. The Duty Pilot will advise on specific wind limits.

Towage

Berthing is aided by two Azimuth Stern Drive tugs: *Blackadder*, with a bollard pull of 62.5 tonnes, and *Piaka*, with a bollard pull of 70 tonnes.

DUKC®

LPC operates a Dynamic Under Keel Clearance (DUKC®) system, aiding in the safe transit of vessels in and out of port.

The DUKC system is used to accurately predict a particular vessel's under keel clearance (DUKC®) based on the vessel's dimensions and stability, the prevailing environmental conditions, predicted vessel speeds and a detailed profile of the Lyttelton Harbour approach channel.

Notice: These plans presented in this document are indicative only. LPC accepts no liability from the reliance of these plans. The MPX process will result in an agreed plan for the safe transit of the vessel into or out of Lyttelton Port.

Key Port Information

Recommended routes between the designated Pilot Boarding station and the selected berth or anchorage are shown below. These plans are indicative and can be deviated from only at the discretion of the Master and/or Pilot. LPC accepts no liability from the reliance of these plans.

Pilot Boarding Station to Cashin Quay						
Name	Latitude	Longitude	Turning Radius (M)	Legline Bearing	Legline Speed (kts)	Legline X Track (M)
PS Alpha	43°34.22'S	172°52.93'E	500	241	12	50
PS Bravo	43° 34.91'S	172° 51.22'E	500	241	12	50
Camp Bay	43° 36.255'S	172° 47.8187'E	500	261	8	50
Cashin Quay	43° 36.75'S	172° 43.7'E				
Pilot Boarding Station to Inner Harbour						
PS Alpha	43°34.22'S	172°52.93'E	500	241	12	50
PS Bravo	43° 34.91'S	172° 51.22'E	500	241	12	50
Camp Bay	43° 36.255'S	172° 47.8187'E	500	261	8	50
Shag Reef	43°36.834'S	172°43.0286'E	300	005	4	30
Inner Harbour	43°36.4772'S	172°43.0286'E				

Section 2: MPX and Berth Guide

MPX – LPC Master Pilot Exchange Form

LPC uses an electronic MPX system (eMPX) as the primary document for conducting the MPX.

On occasion LPC Pilots will use the hard copy MPS (as shown below). A PDF download of the hard copy LPC MPX is available from the following web link.

<http://www.lpc.co.nz/wp-content/uploads/2015/06/LPC-Pilotage-Passage-Plan.pdf>

HW	TIME	HEIGHT	<input type="checkbox"/> UKC	UKC		DRY DOCK	FLOOR 137.14M	TOP 147M	ENTRANCE 18.8M W	MAX DRAFT 5.1M	HDG 26GT
LW	TIME	HEIGHT	<input type="checkbox"/> DUKC	HARBOUR	INNER HARBOUR						
FLOW			TIDE HEIGHT								
WEATHER: PRESENT			DEPTH AT CD								
WIND			TOTAL DEPTH								
WEATHER: PREDICTED			DRAFT								
WIND			UKC STATIC								
			SQUAT								
REMARKS			UKC DYNAMIC (1)								
			SWELL (if any)								
			UKC DYNAMIC (2)								

FOR MASTER / PILOT EXCHANGE DURING PASSAGE PLANNING. REFER TO CHART NZ 4321 FOR NAVIGATION.

IDENTITY	CLASS	STATUS	TYPE	MARKING	COLOUR	HEIGHT	LENGTH	WIDTH	DEPTH	DRIFT	HEADING	REMARKS
02-1	111	111	111	111	111	111	111	111	111	111	111	111
02-2	112	112	112	112	112	112	112	112	112	112	112	112
02-3	113	113	113	113	113	113	113	113	113	113	113	113
02-4	114	114	114	114	114	114	114	114	114	114	114	114
02-5	115	115	115	115	115	115	115	115	115	115	115	115
02-6	116	116	116	116	116	116	116	116	116	116	116	116
02-7	117	117	117	117	117	117	117	117	117	117	117	117
02-8	118	118	118	118	118	118	118	118	118	118	118	118
02-9	119	119	119	119	119	119	119	119	119	119	119	119
02-10	120	120	120	120	120	120	120	120	120	120	120	120

LYTTELTON PORT PILOTAGE PASSAGE PLAN

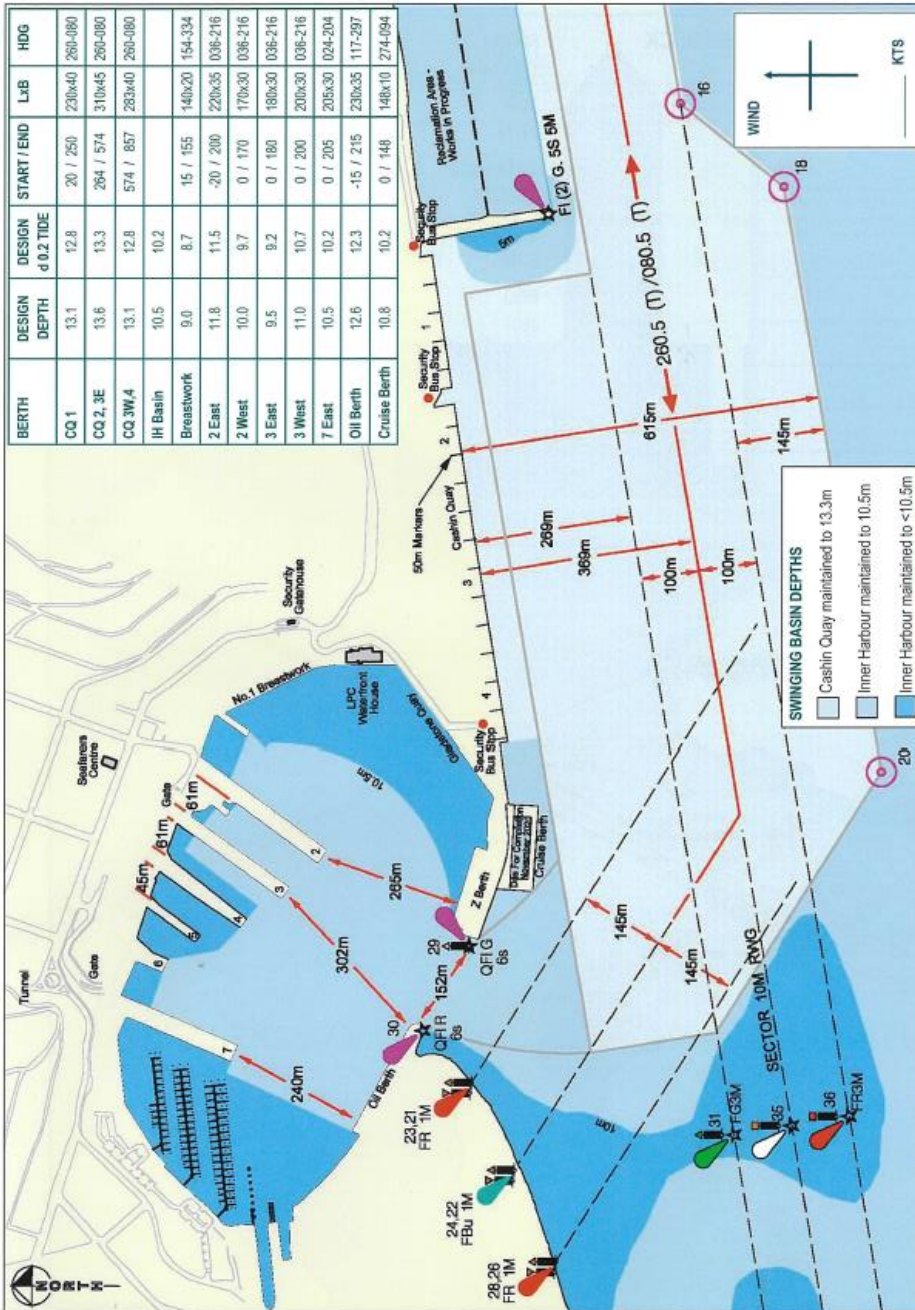
Lyttelton Port listens continuously on VHF 12 / 16. VHF 02 is a working channel for Pilots and Tugs. The bridge team is reminded of its duty to maintain an accurate check on the vessel's position as laid down in the ISM Code, STCW Convention, IMO Regulations & ICS Bridge Procedures Guide. The bridge team is requested to monitor the pilots actions at all times, and to challenge the pilot if in doubt of the planned passage or ship's progress. Smoke free bridge.

VESSEL:	
Date:	Movement: <input type="checkbox"/> In <input type="checkbox"/> Out <input type="checkbox"/> Shift
Channels: VHF 02—12—16	Pilot:
Berth:	Actual Depth: <input type="checkbox"/> P52 <input type="checkbox"/> S52
Ladder: <input type="checkbox"/> P <input type="checkbox"/> S	Ladder Height:
Pilot Card: <input type="checkbox"/> Yes <input type="checkbox"/> No	Main Engine(s) Tested
Thrusters: <input type="checkbox"/> Bow KW / HP =	Stem KW / HP = Tested
Anchors Clear: <input type="checkbox"/> P <input type="checkbox"/> S	Use <input type="checkbox"/> Gyro Error <input type="checkbox"/> Bridge Equipment OK
TUGS:	On departure, engine not to be tested until Pilot on Bridge.
Backsifter: 62t <input type="checkbox"/> F <input type="checkbox"/> A	1st/Last Line F A
Picks: 70t <input type="checkbox"/> F <input type="checkbox"/> A	Lines F A
TUGS:	Tugs use tugs line. When letting go tug lower line slowly using a turn on mooring bit (illustrated below)
The Pilot and Master certify that the pilotage plan has been discussed with the Bridge Team	
Pilot _____	Date / Time _____
Master _____	Date / Time _____

FOR MASTER / PILOT EXCHANGE DURING PASSAGE PLANNING—NOT TO BE USED FOR NAVIGATION. Version 2 1/12/2019 REFER TO CHART NZ6321

LYTTELTON PORT PILOTAGE PASSAGE PLAN

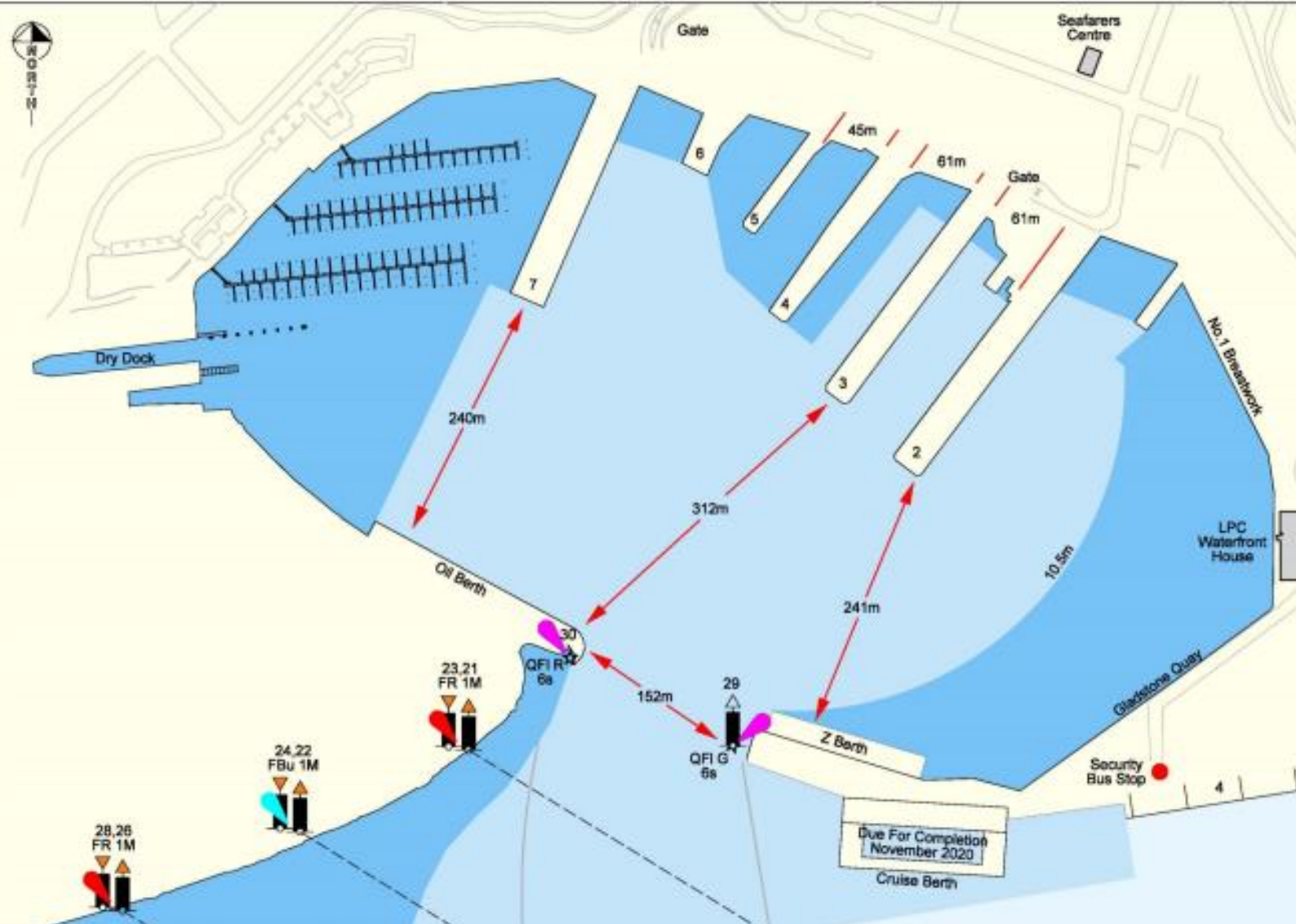
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FOR MASTER / PILOT EXCHANGE DURING PASSAGE PLANNING—NOT TO BE USED FOR NAVIGATION

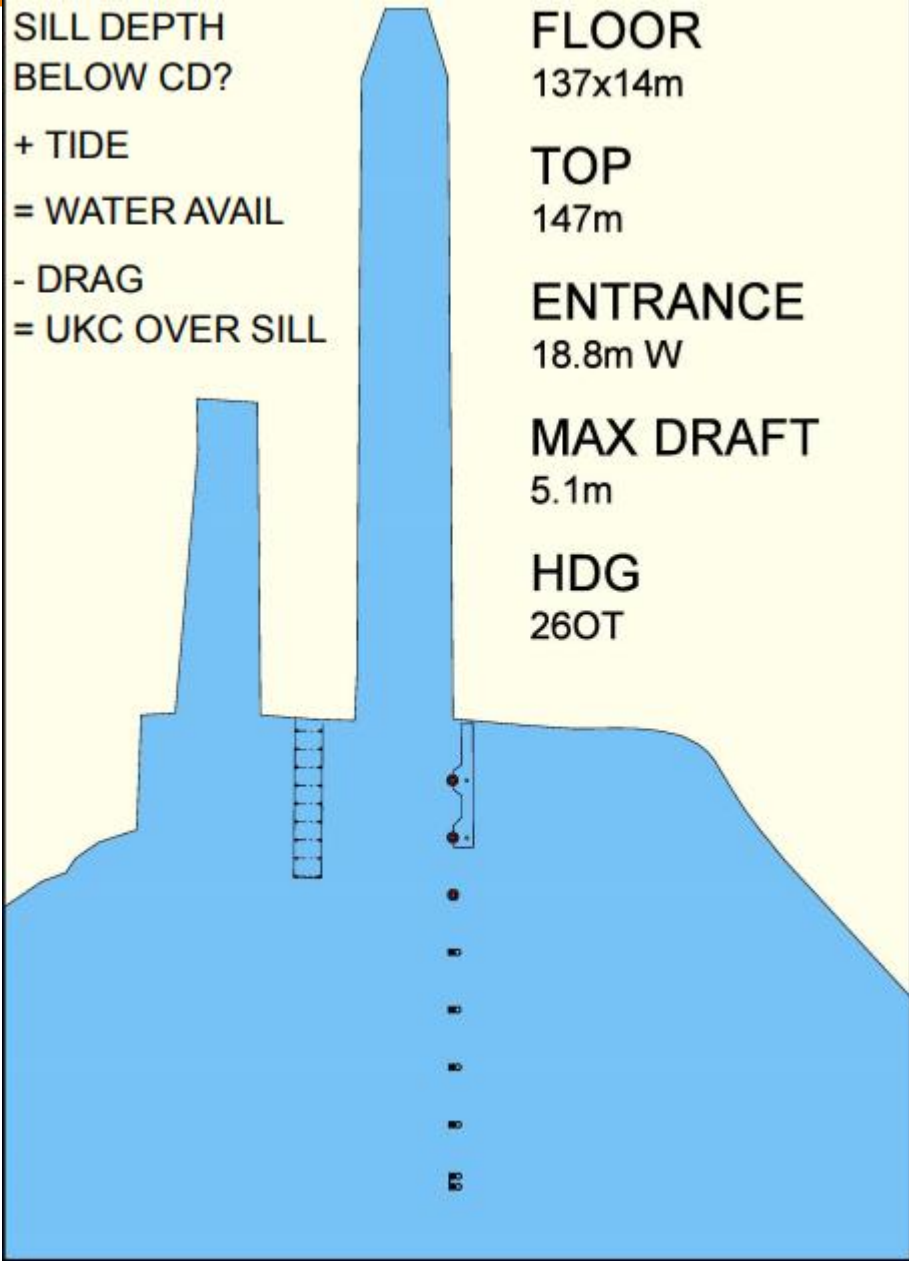
VESSEL:			
Date:		Movement:	<input type="checkbox"/> In <input type="checkbox"/> Out <input type="checkbox"/> Shift
Channels:	VHF 02—12—16	Pilot:	
Berth:		Actual Depth:	<input type="checkbox"/> PS2 <input type="checkbox"/> SS2
Ladder:	<input type="checkbox"/> P <input type="checkbox"/> S	Ladder Height:	
Pilot Card:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Main Engine(s)	Tested
Thrusters:	<input type="checkbox"/> Bow KW / HP =	<input type="checkbox"/> Stern KW / HP =	Tested
Anchors Clear:	<input type="checkbox"/> P <input type="checkbox"/> S	Use	<input type="checkbox"/> Gyro Error <input type="checkbox"/> Bridge Equipment OK
TUGS:	On departure, engine not to be tested until Pilot on Bridge.		
Blackadder	62t bp <input type="checkbox"/> F <input type="checkbox"/> A	1st/Last Line	F A
Piaka	70t bp <input type="checkbox"/> F <input type="checkbox"/> A	Lines	F A
TUGS	SWL of ship's bits <input type="checkbox"/> F <input type="checkbox"/> A		Tugs use tugs lire. When letting go tug lower line slowly using a turn on mooring bitt (illustrated below)
The Pilot and Master certify that the pilotage plan has been discussed with the Bridge Team			
Pilot	_____	Date / Time	_____
Master	_____	Date / Time	_____

LYTTELTON PORT DRY DOCK PASSAGE PLAN



VESSEL:	
Date:	<input type="checkbox"/> Docking <input type="checkbox"/> Undocking
Contact:	
Stability Data:	
Engine:	<input type="checkbox"/> Available <input type="checkbox"/> Not available
Bow thruster:	<input type="checkbox"/> Available <input type="checkbox"/> Not available
Tugs Required?	<input type="checkbox"/> Piaka <input type="checkbox"/> Blackadder
LPC Rescue?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Double Docking?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, use 2 tugs to speed up
Hull Protrusions?	_____
Vessel PS2 at berth?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes; tug to change sides
Winches Operable?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Use dock capstan?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Owners rep on board?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sign:	_____
Communication with crew	<input type="checkbox"/> Yes <input type="checkbox"/> No
Starks staff?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Discuss with Dock master	<input type="checkbox"/> Yes <input type="checkbox"/> No
All in agreement with plan?	<input type="checkbox"/> Yes <input type="checkbox"/> No

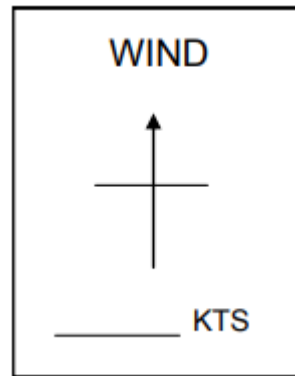
LYTTELTON PORT DRY DOCK PASSAGE PLAN



Tug Arrangement



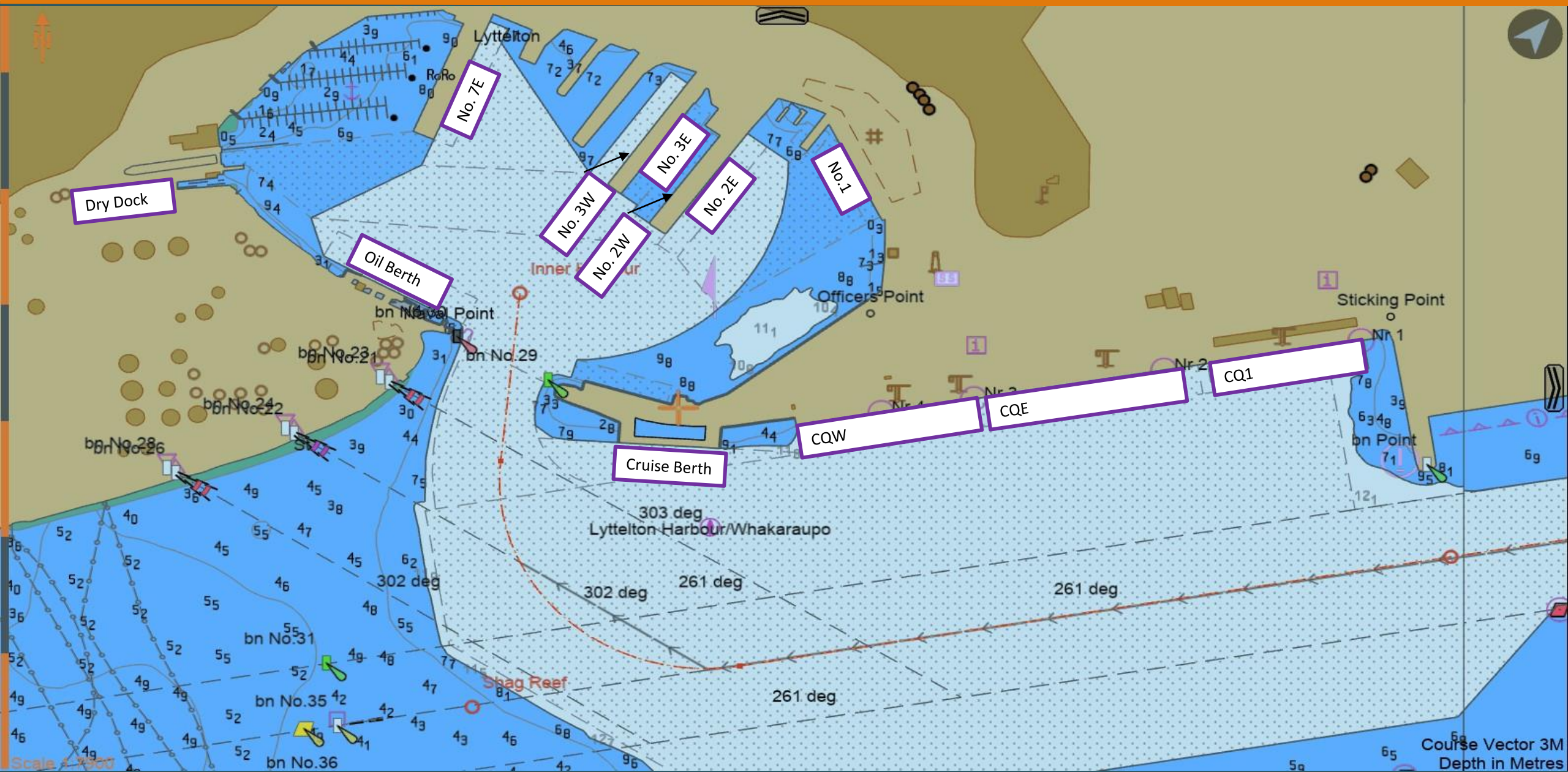
Mooring Arrangement



COMMENTS

Maximum permissible wind for docking / Undocking is 25 Knots from any direction.

LPC Berth Guide

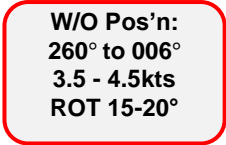


Section 3: Standard Passage Plans

Symbol Key



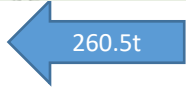
Speed - expressed in knots



Wheel over position – target speed and Rate of Turn



Pilot Boarding Station



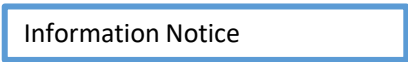
Heading



Potential wind hazard



General Hazard

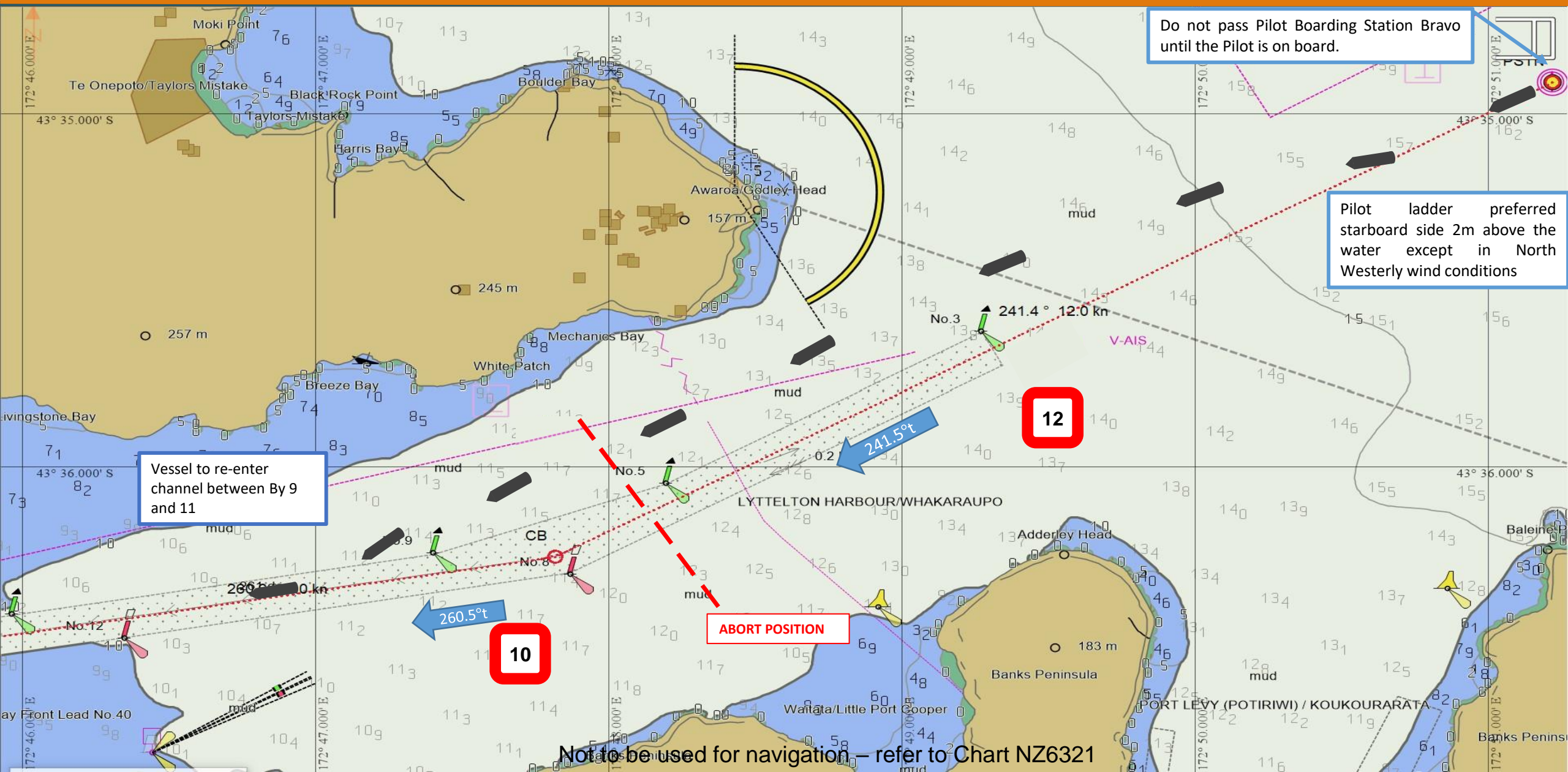


Key information



Abort swing area

Arrival: Pilot Station to Camp Bay - Out of Channel - Draft determined by Pilot to maximum of 10.0m



Do not pass Pilot Boarding Station Bravo until the Pilot is on board.

Pilot ladder preferred starboard side 2m above the water except in North Westerly wind conditions

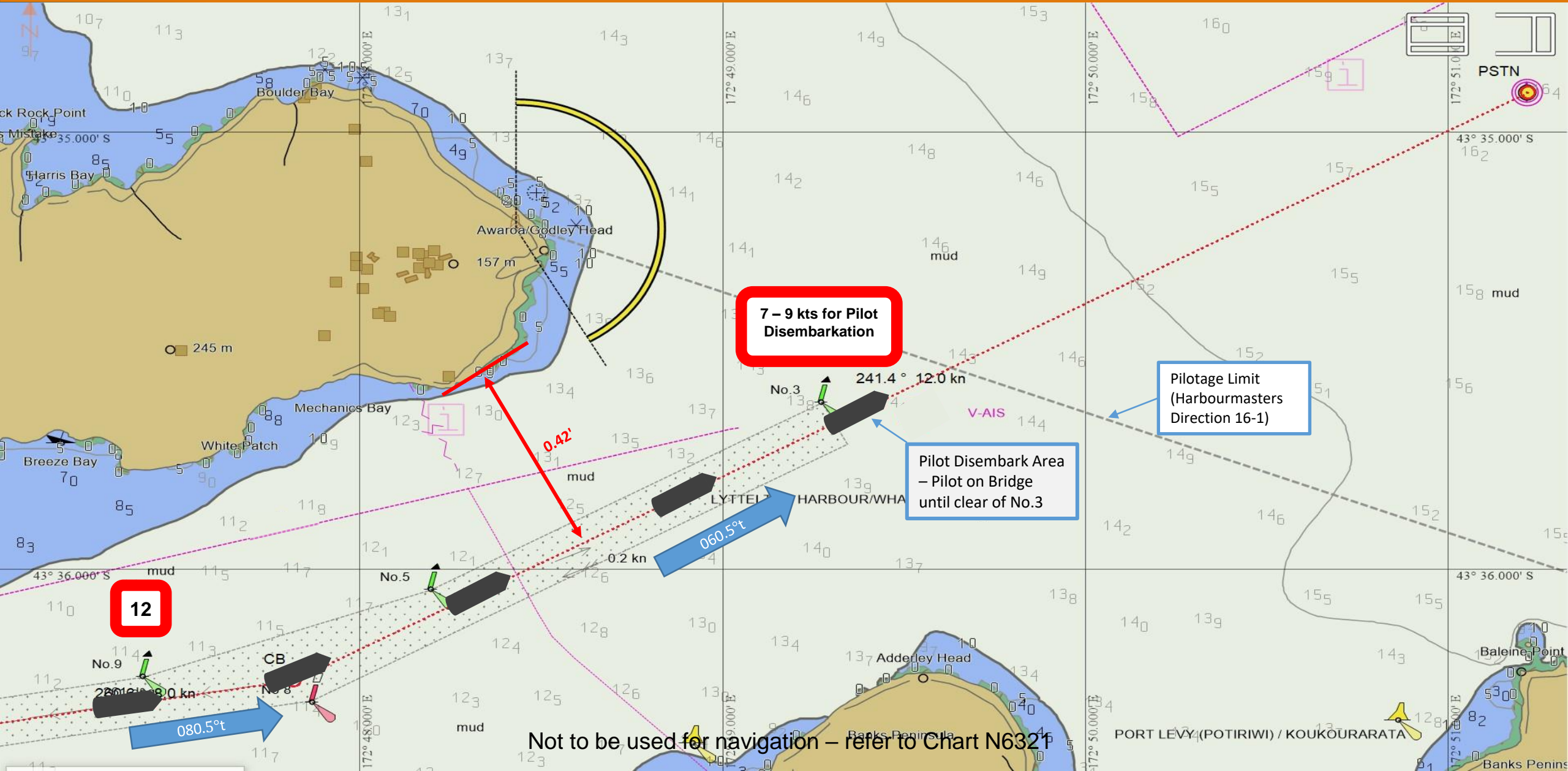
Vessel to re-enter channel between By 9 and 11

ABORT POSITION

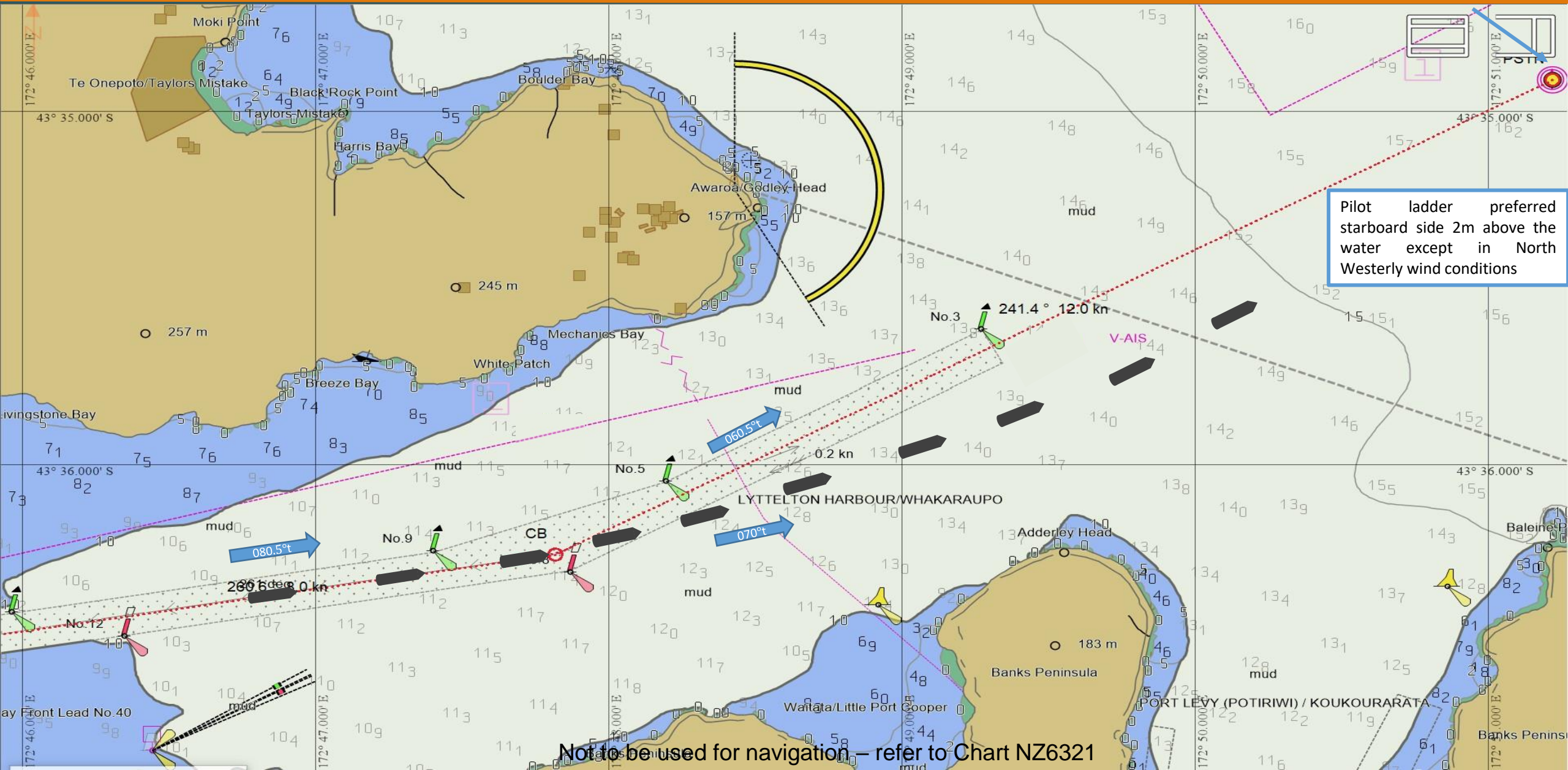
12

10

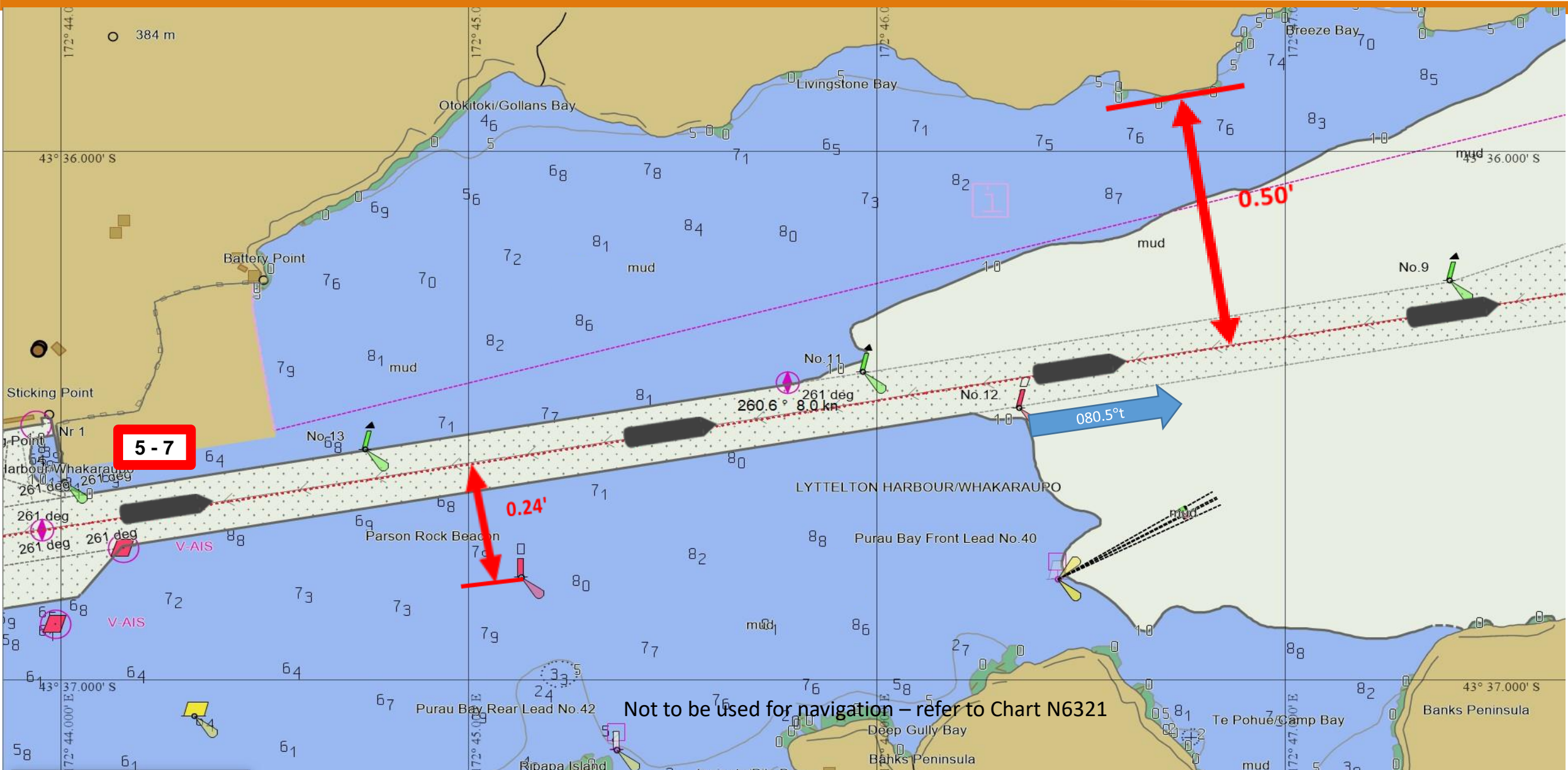
Departure: Camp Bay to Sea



Departure: Camp Bay to Pilot Station - Out of Channel - Draft determined by Pilot to maximum of 10.0m

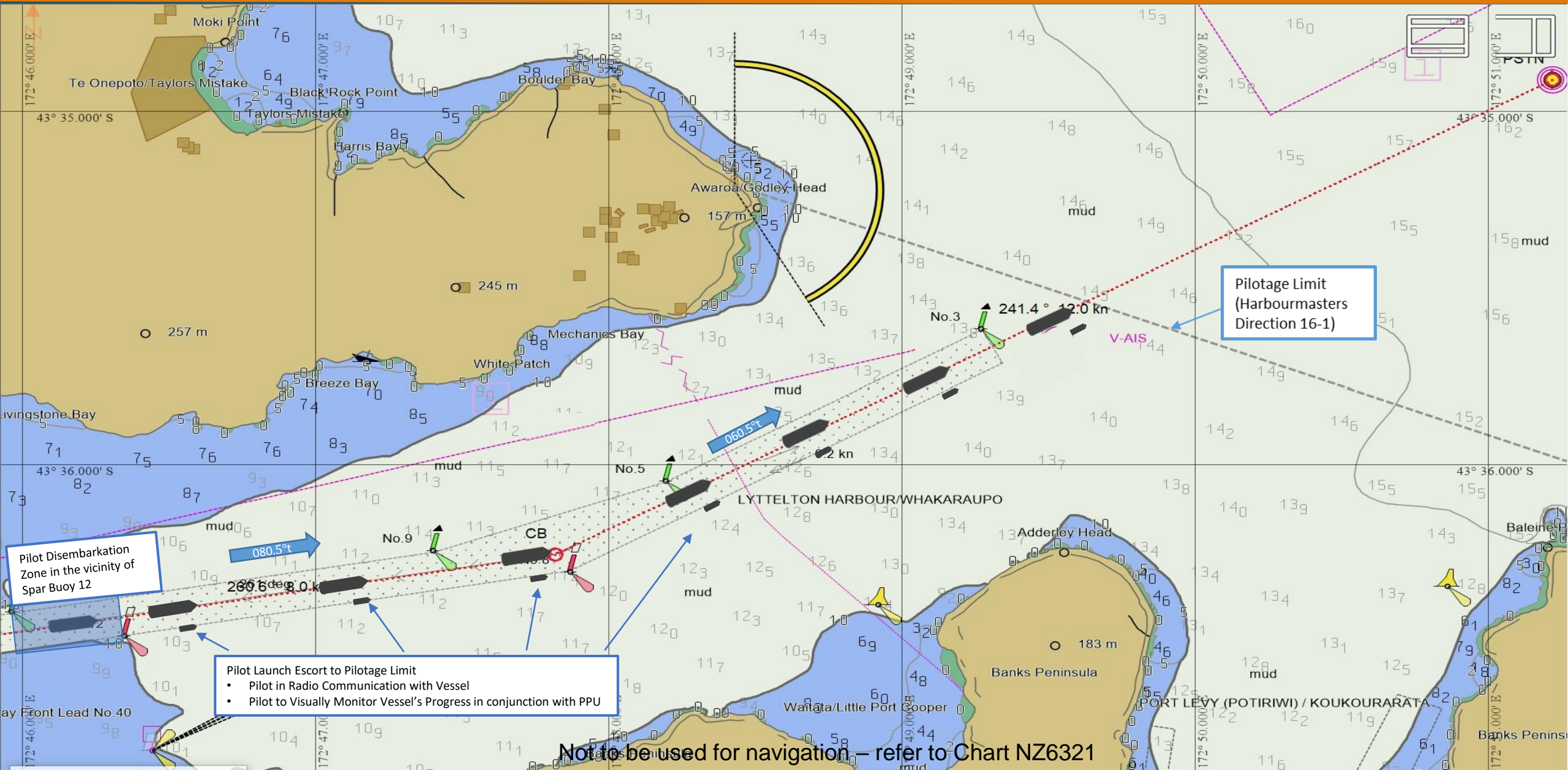


Departure: Breakwater to Camp Bay



Leading Out of Vessels <105m LOA & <7.5m Draft

May be used when sea conditions pose a risk to Pilot Disembarkation at Spar Buoy No.3



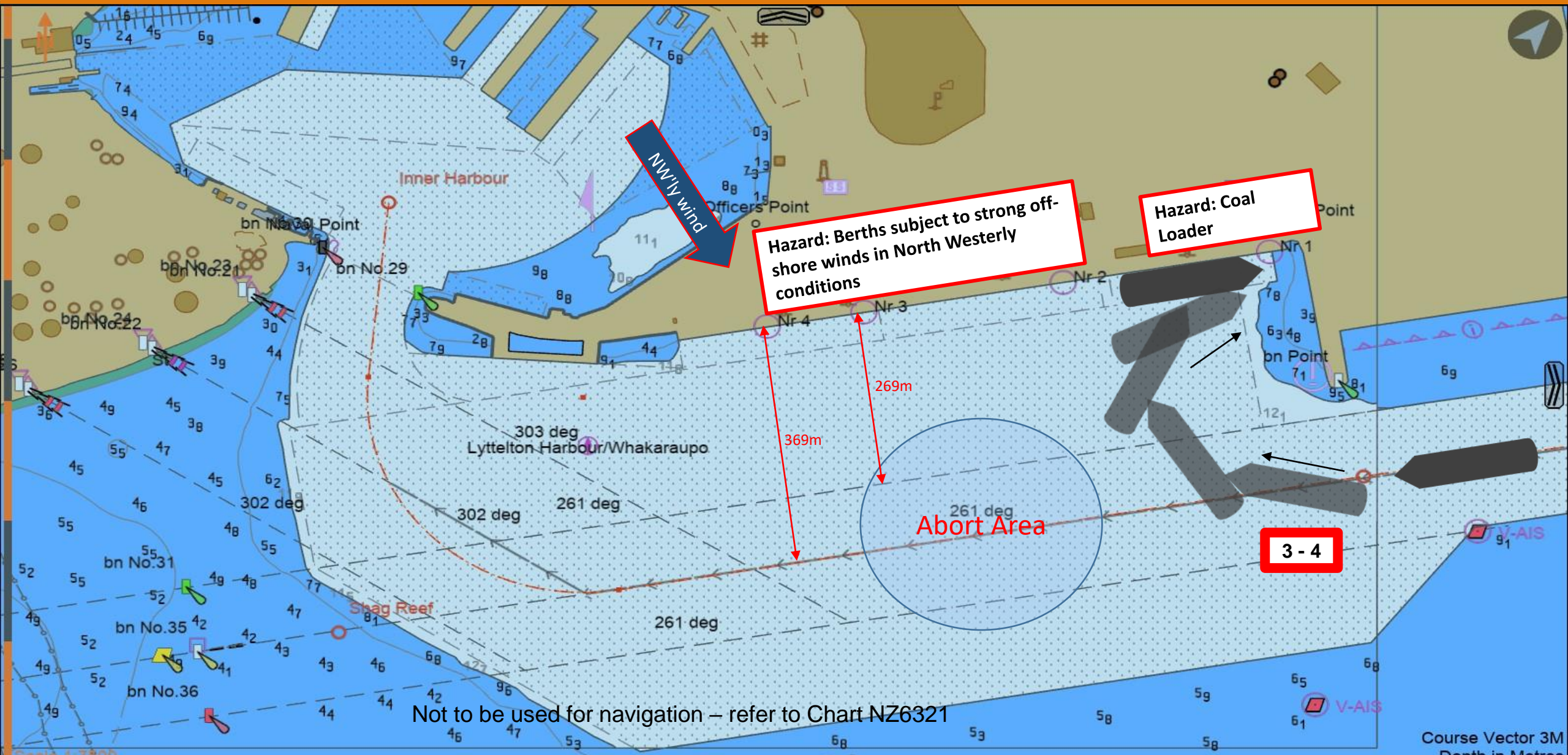
Pilotage Limit
(Harbourmasters
Direction 16-1)

Pilot Launch Escort to Pilotage Limit

- Pilot in Radio Communication with Vessel
- Pilot to Visually Monitor Vessel's Progress in conjunction with PPU

Pilot Disembarkation
Zone in the vicinity of
Spar Buoy 12

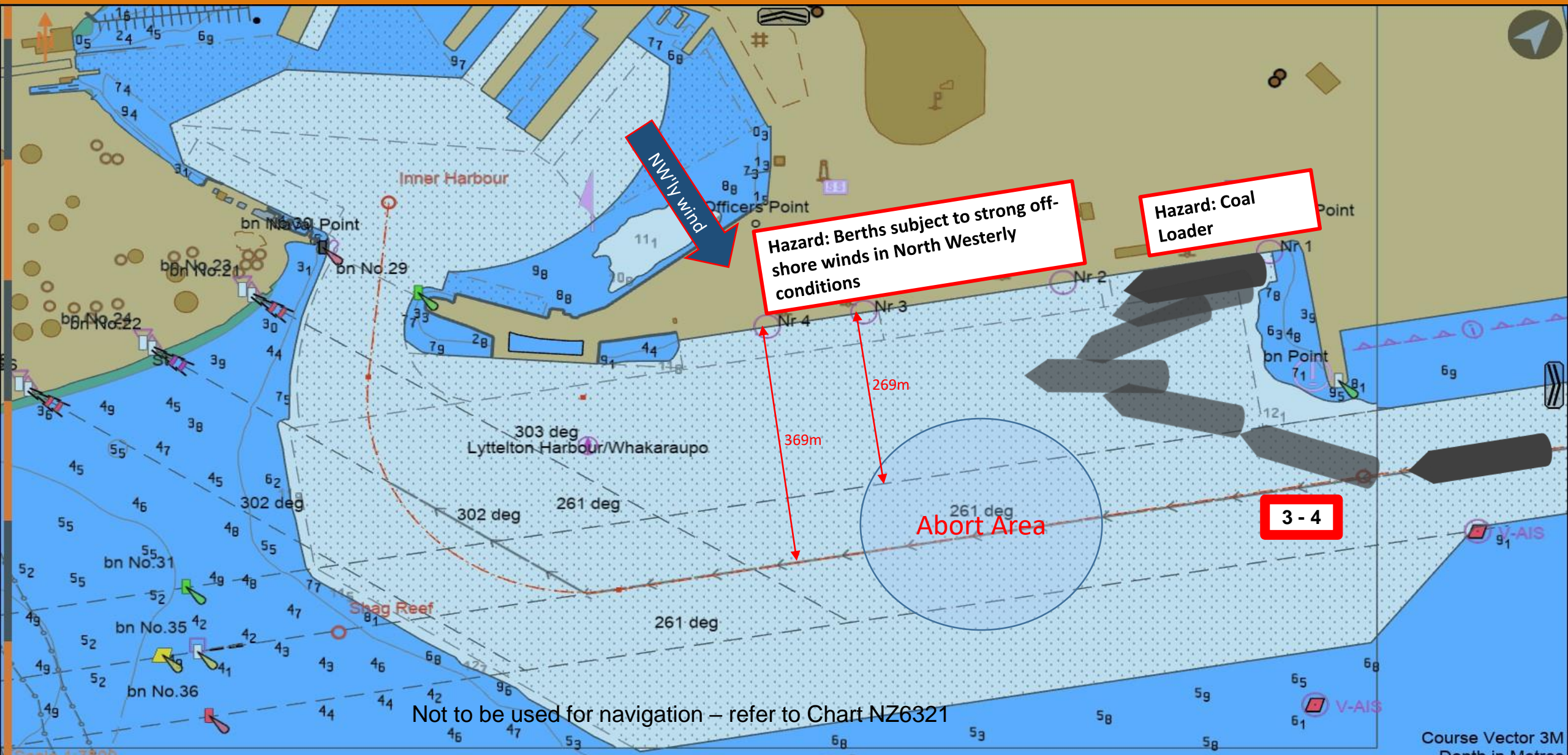
Arrival: Breakwater to CQ1 PSTQ



Not to be used for navigation – refer to Chart NZ6321

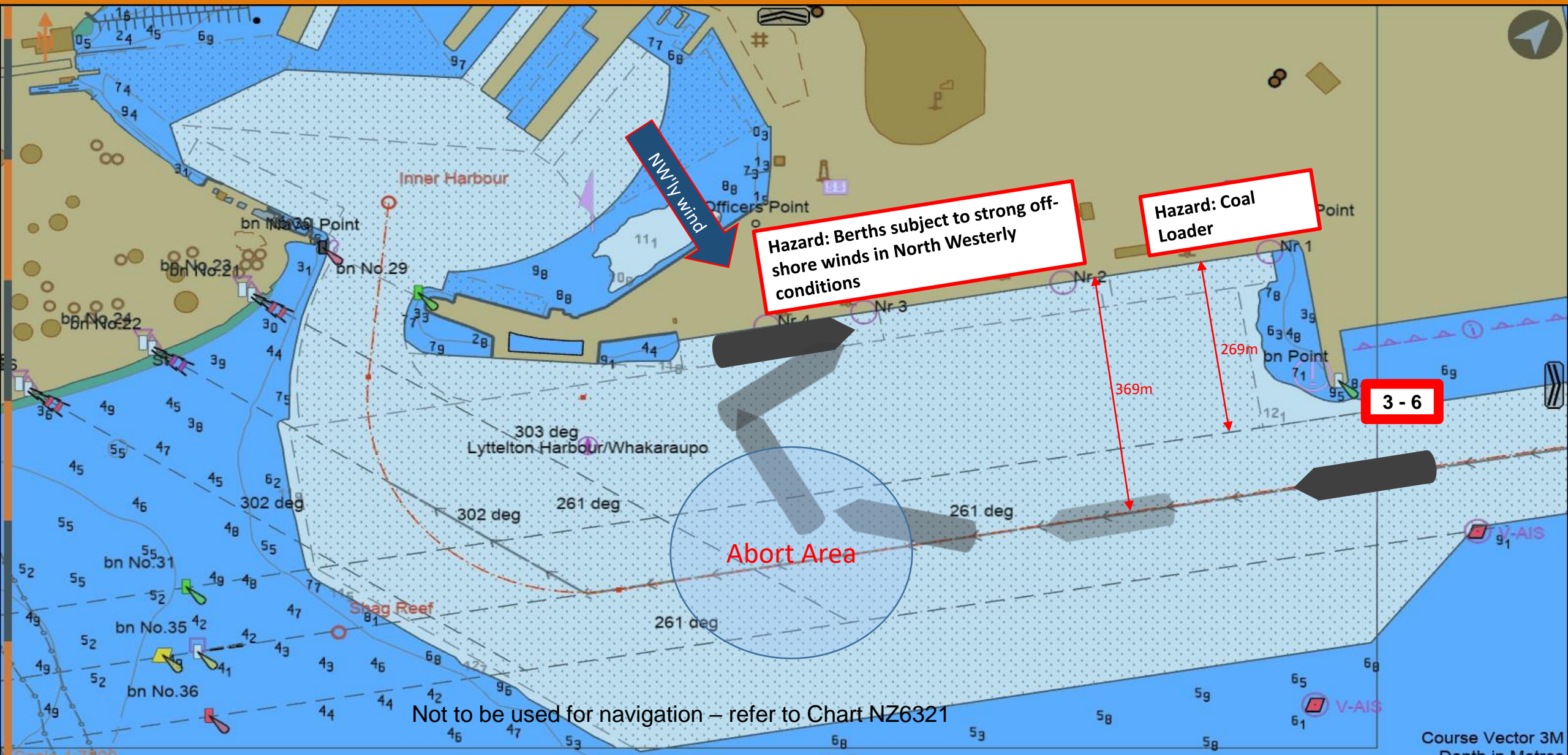
Course Vector 3M
Depth in Metres

Arrival: Breakwater to CQ1 SSTQ



Not to be used for navigation – refer to Chart NZ6321

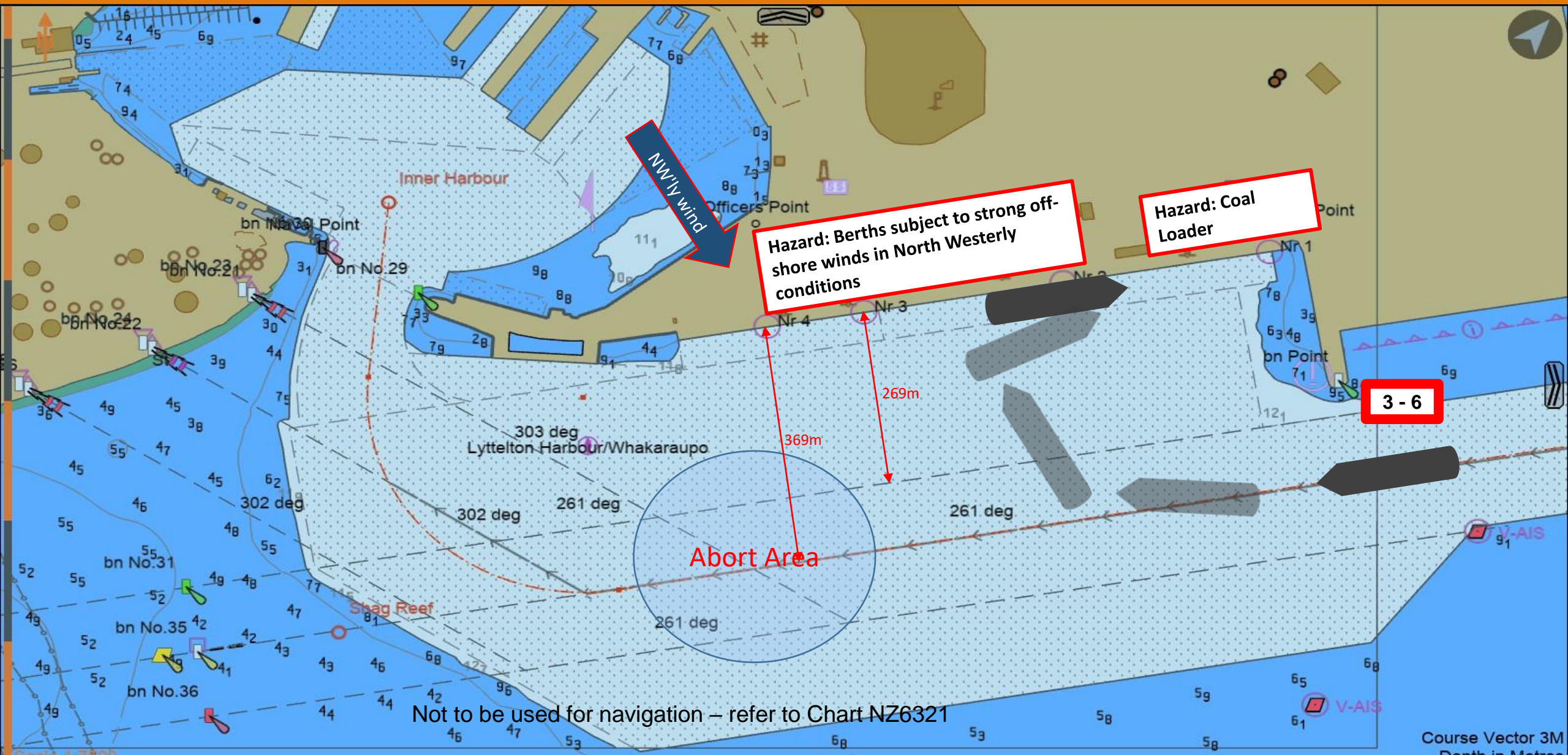
Arrival: Breakwater to CQ-West PSTQ



Not to be used for navigation – refer to Chart NZ6321

3 - 6

Arrival: Breakwater to CQ-East PSTQ



Hazard: Berths subject to strong off-shore winds in North Westerly conditions

Hazard: Coal Loader

Abort Area

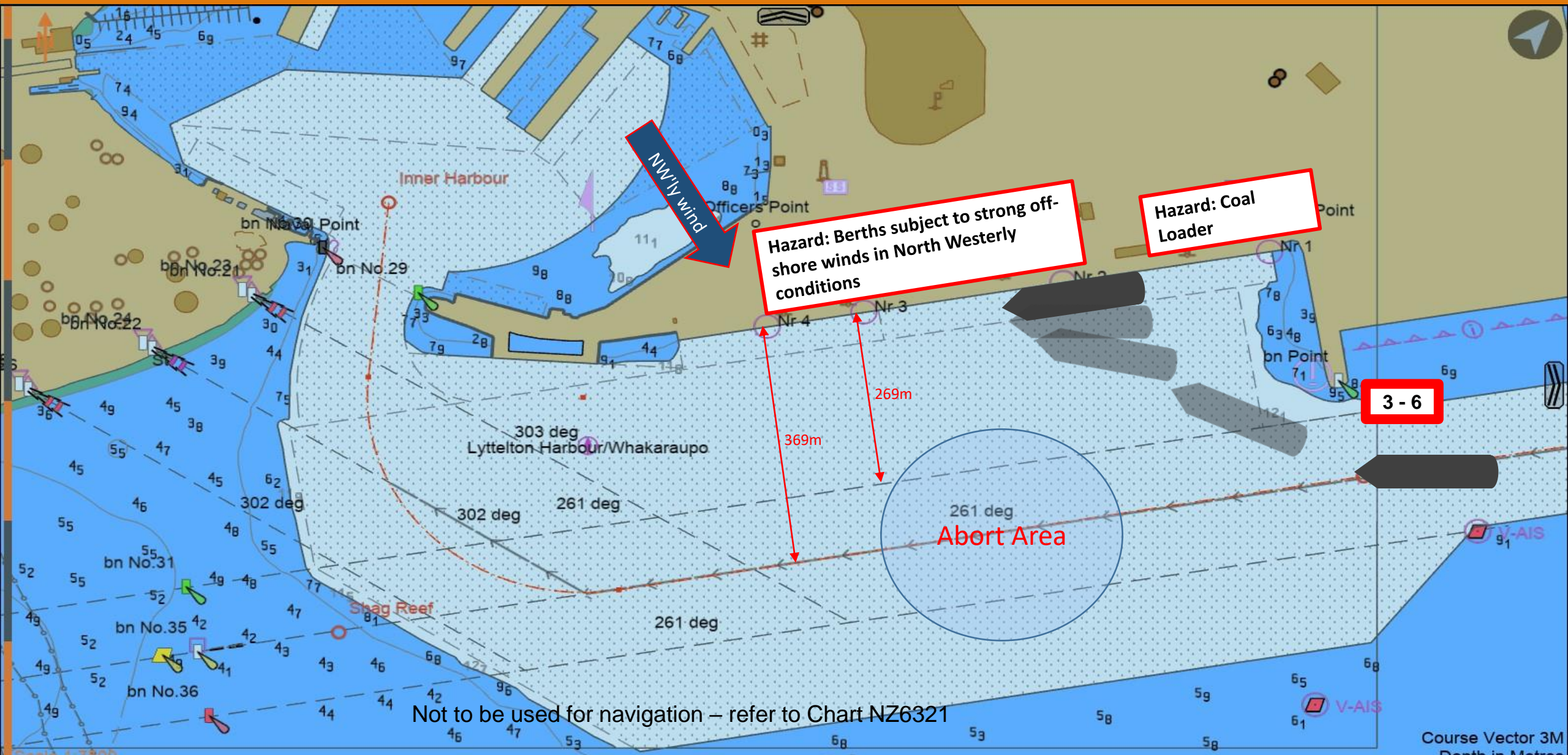
3 - 6

Not to be used for navigation – refer to Chart NZ6321

Scale 1:7500

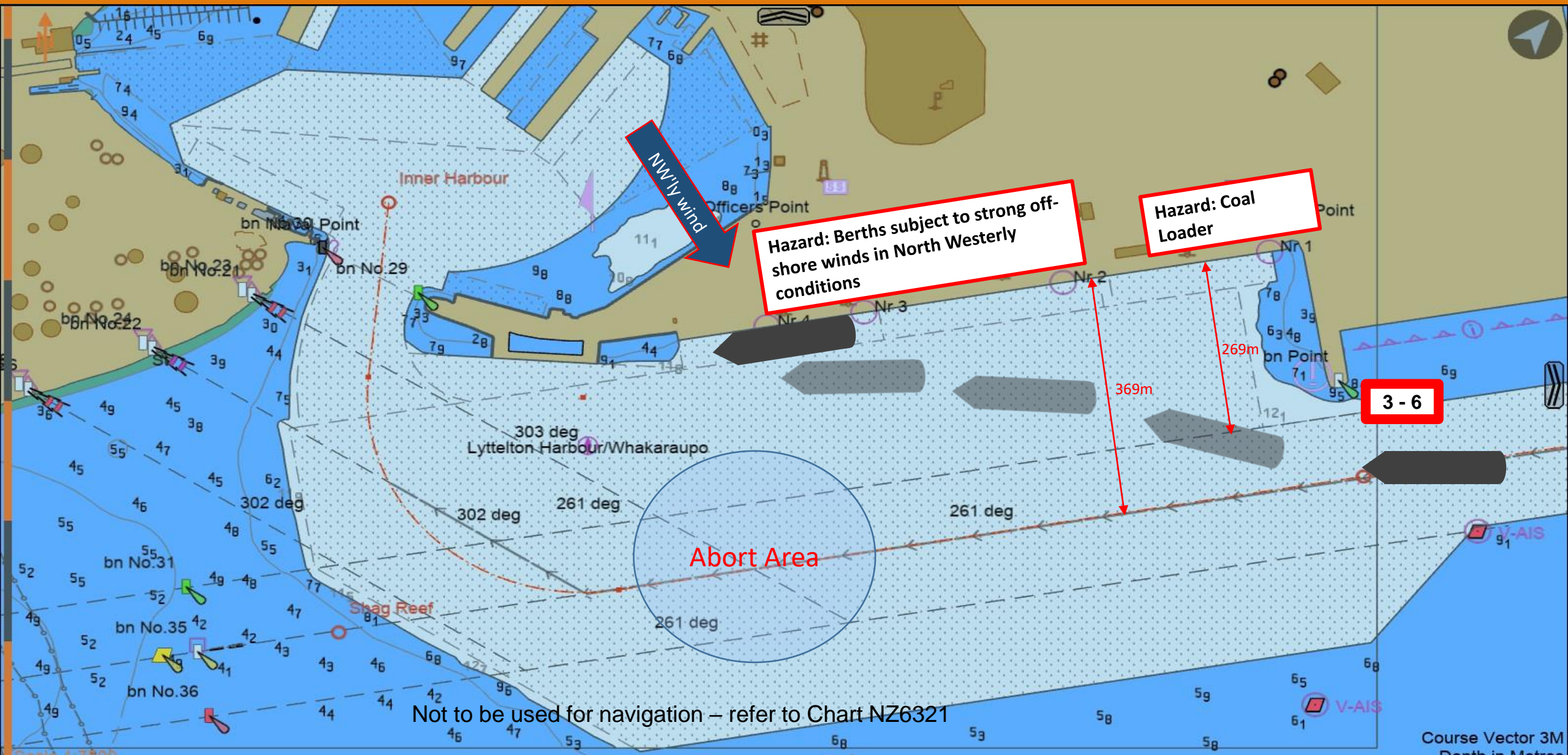
Course Vector 3M
Depth in Metres

Arrival: Breakwater to CQ-East SSTQ



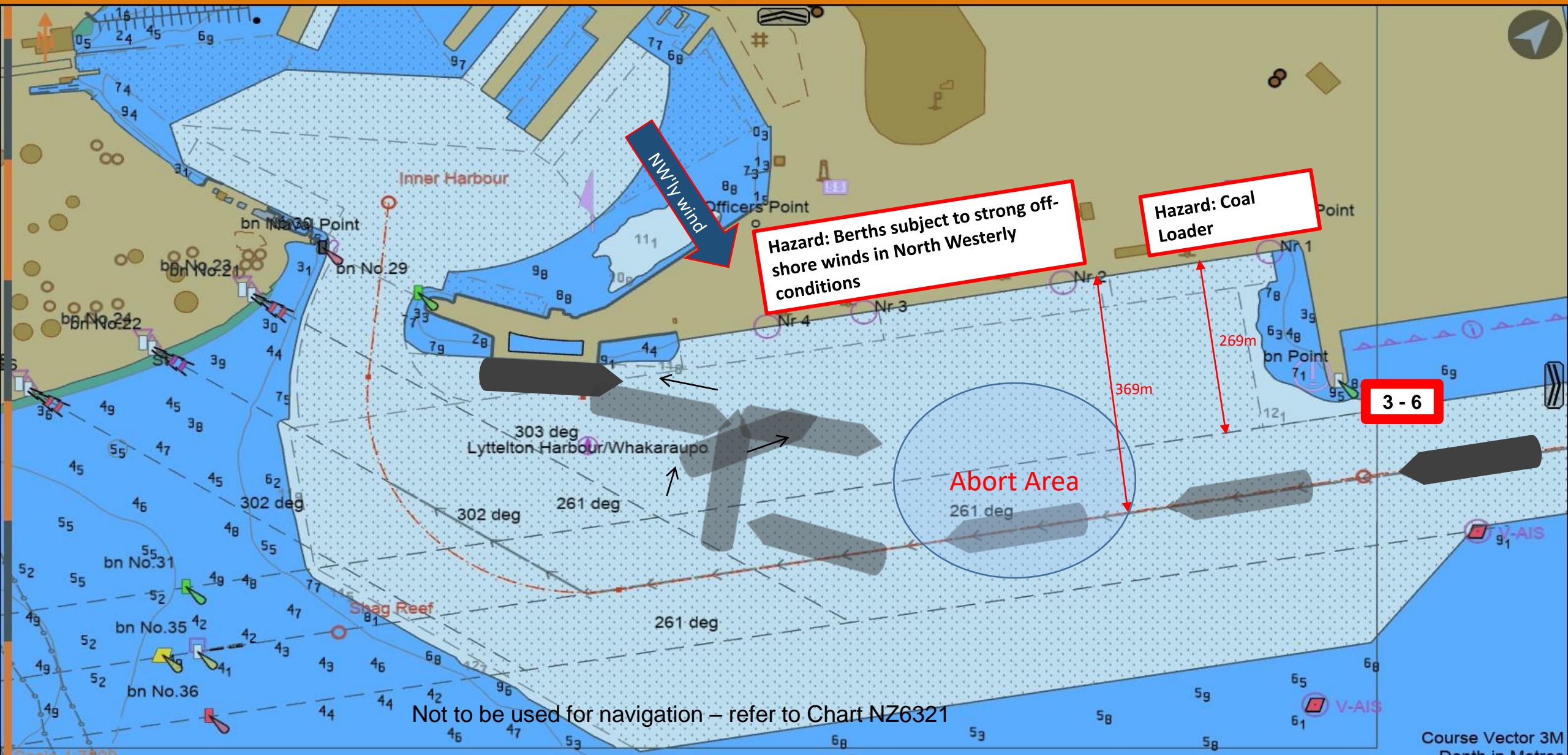
Not to be used for navigation – refer to Chart NZ6321

Arrival: Breakwater to CQ-West SSTQ



Not to be used for navigation – refer to Chart NZ6321

Arrival: Breakwater to Cruise Berth PSTQ – Bow to Stbd



Hazard: Berths subject to strong off-shore winds in North Westerly conditions

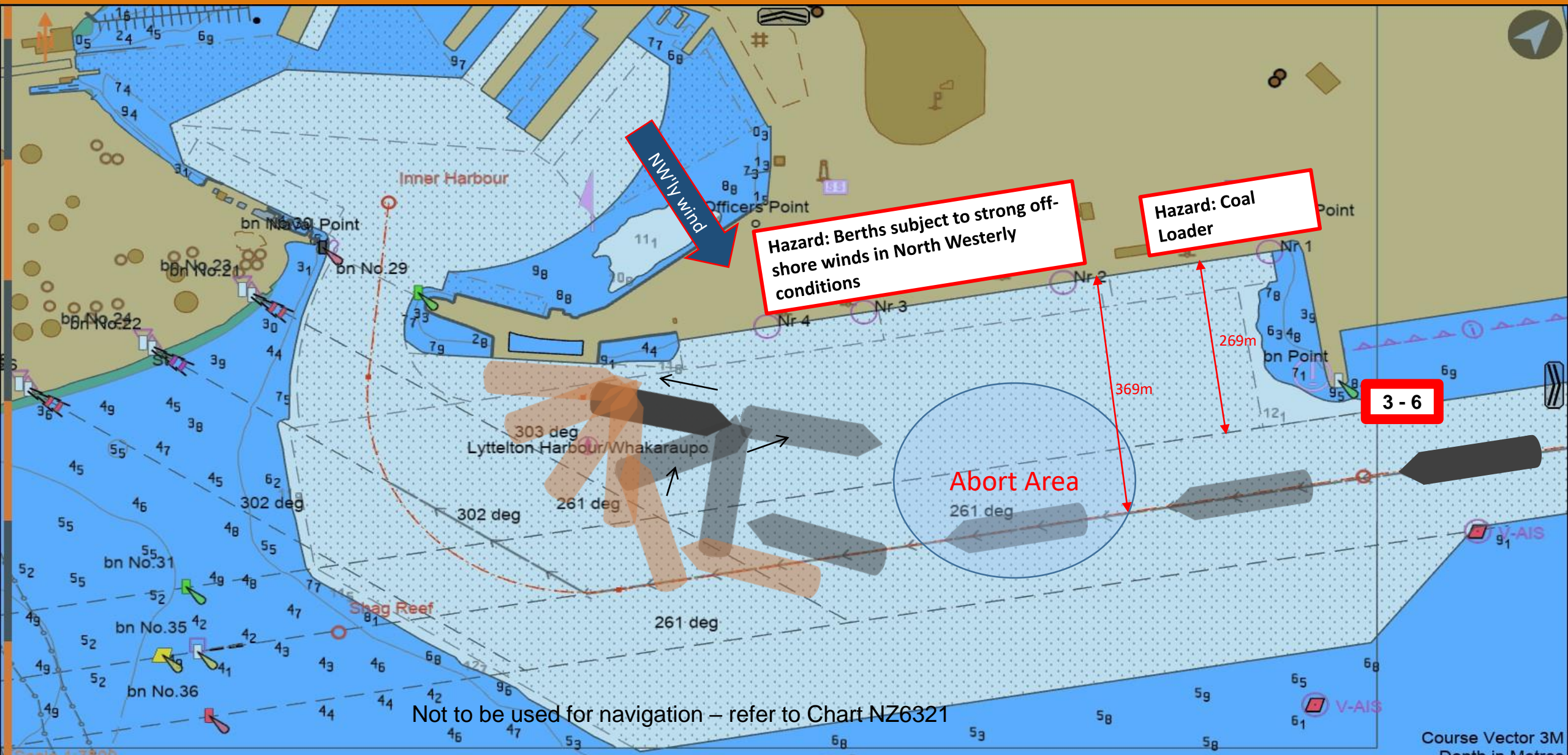
Hazard: Coal Loader

3 - 6

Abort Area
261 deg

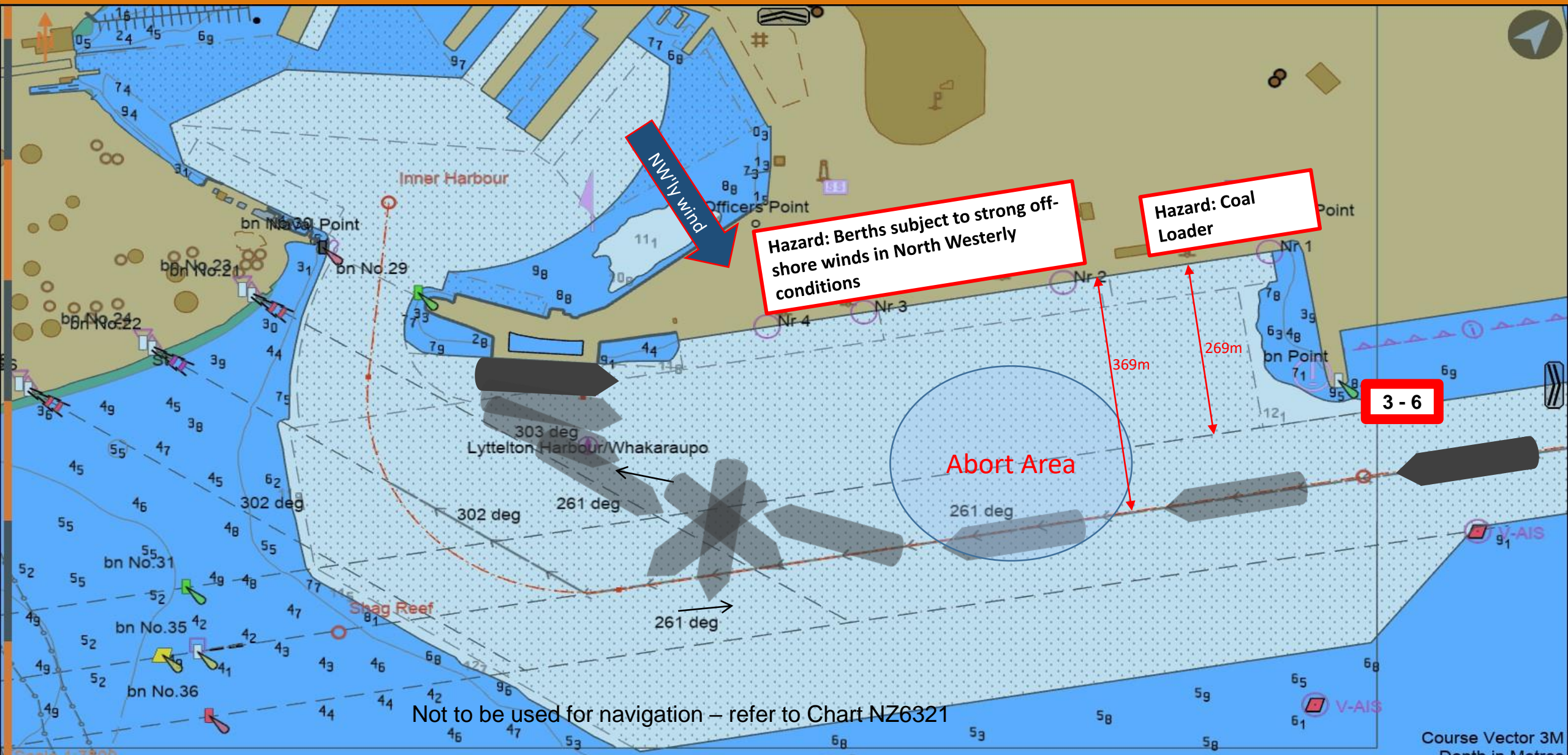
Not to be used for navigation – refer to Chart NZ6321

Arrival: Breakwater to Cruise Berth AZI PSTQ – Bow to Stbd

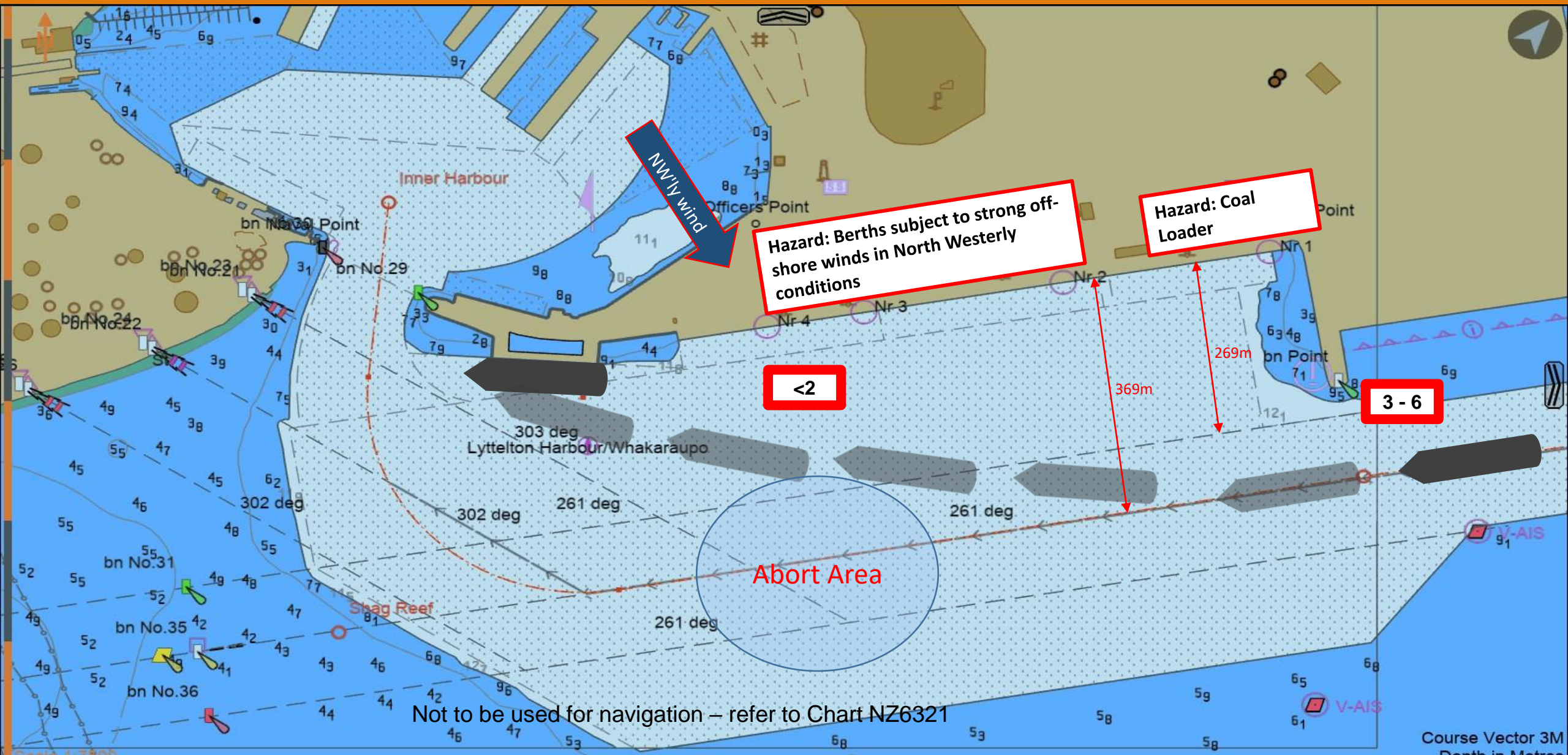


Not to be used for navigation – refer to Chart NZ6321

Arrival: Breakwater to Cruise Berth PSTQ – Bow to Port

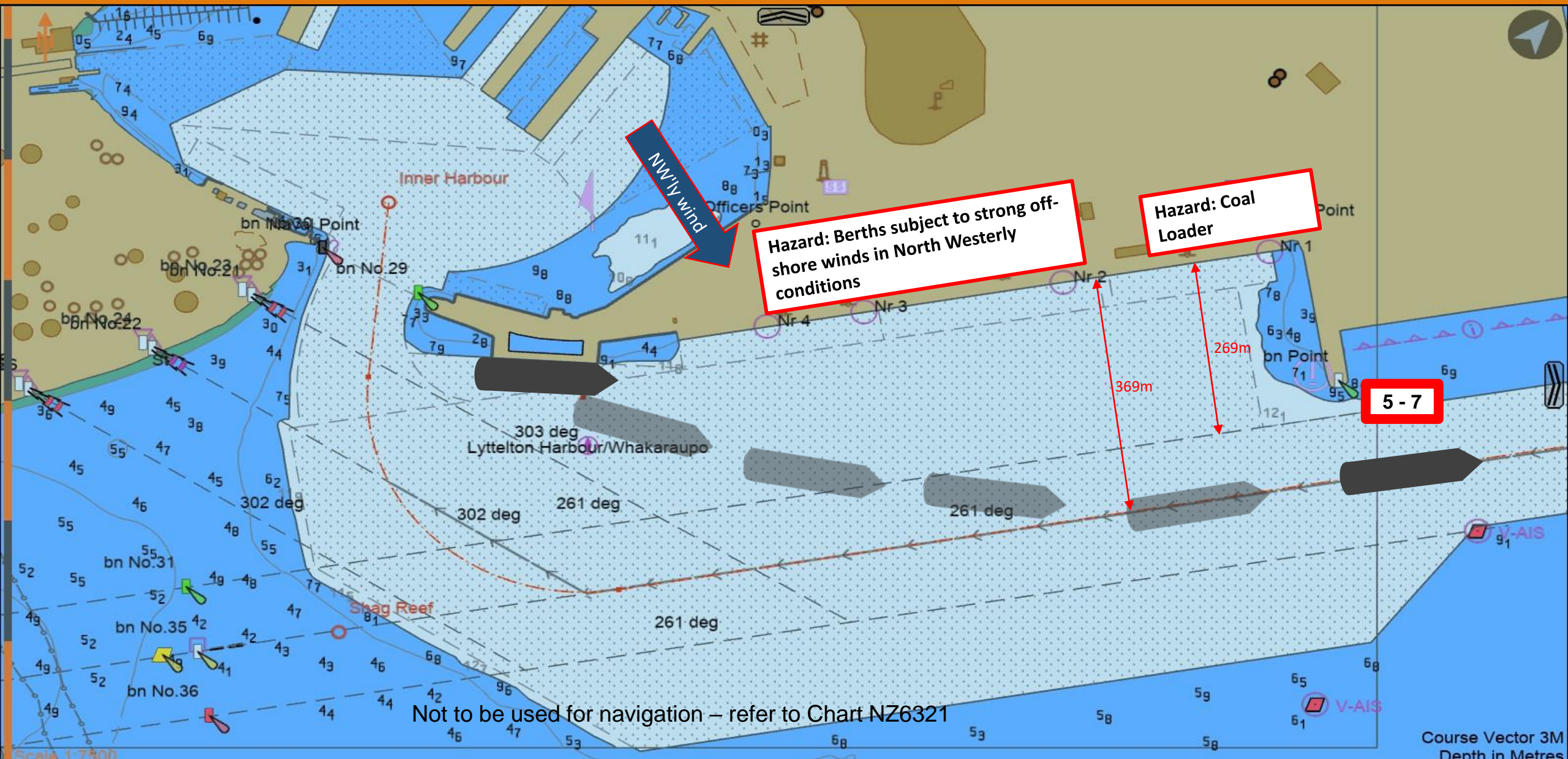


Arrival: Breakwater to Cruise Berth SSTQ (non Cruise)

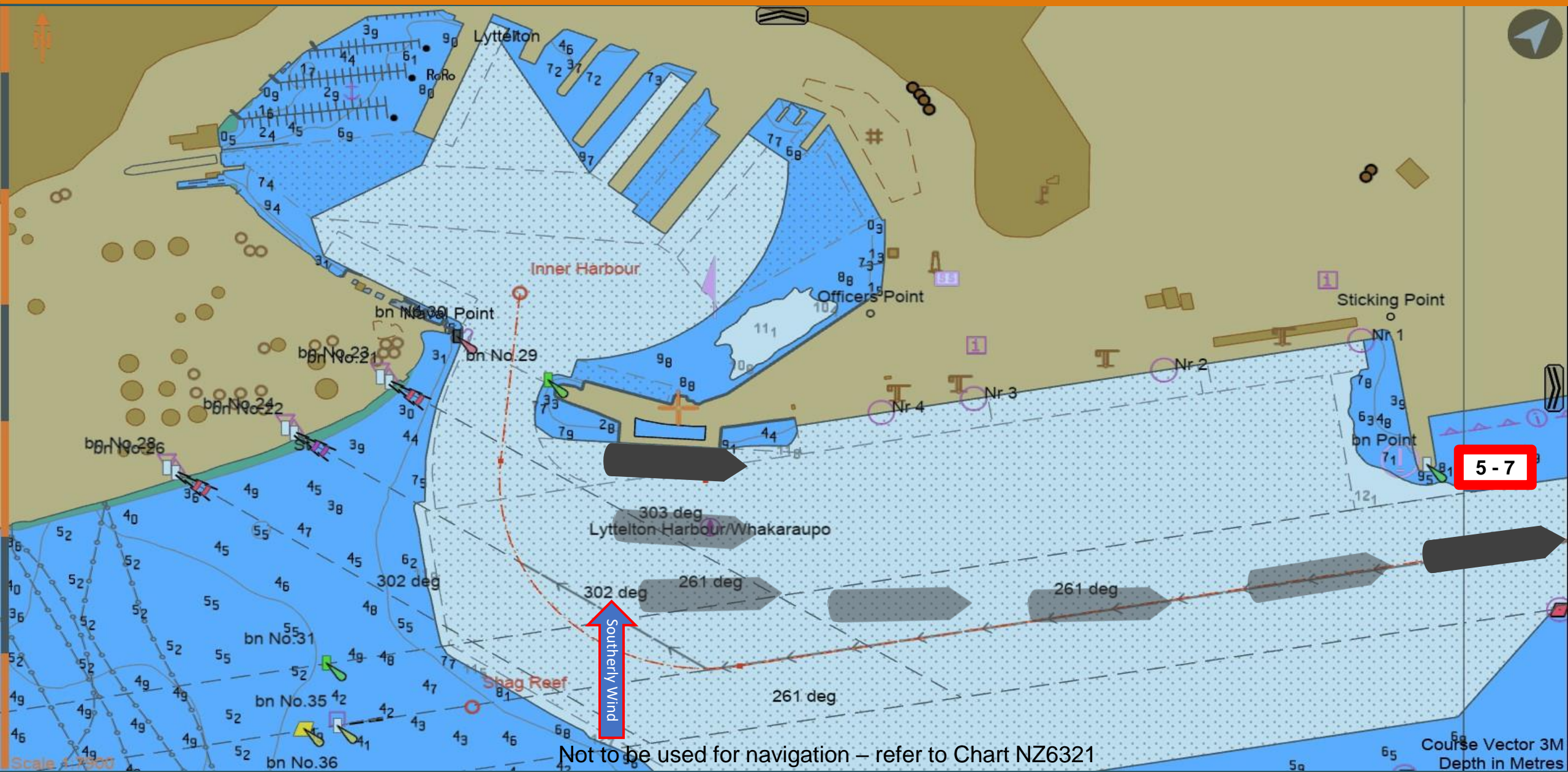


Not to be used for navigation – refer to Chart NZ6321

Departure: Cruise Berth PSTQ to Breakwater



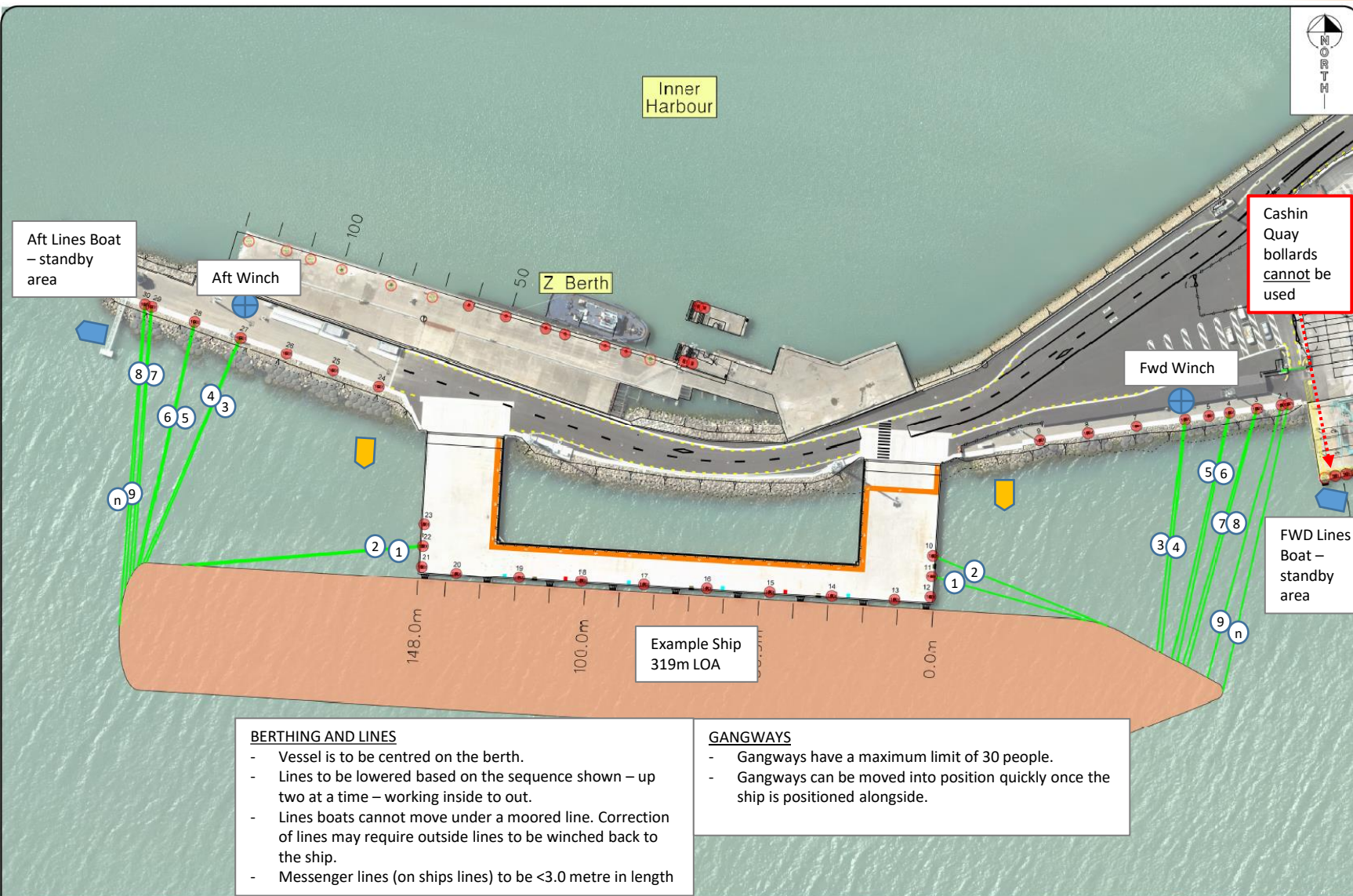
Departure: Cruise Berth PSTQ to Breakwater – – Strong S'y Wind



Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres

Cruise Berth Arrival – Mooring Operation with Lines Boats



Key

- Lines Boat – Standby Area
- Shore Lines Winch
- Lines Boat – In Operation

① - ⑨ Order of Lines

Lines Operation

- Lines Boats will run a messenger from ashore and secure it to the ships lines – up to two ships lines at a time
- Lines will then be winched ashore in the sequence shown
- Spring lines – ships crew to throw a heaving line to the lines team on the berth as the vessel comes alongside. Alternatively a messenger line will be taken by the Lines Boat to the ship and secured to the ships line once the vessel is alongside.
- Tugs will be available on standby and may be used by the Pilot to manage/hold the position of the ship alongside
- Vessel to be aware of thruster and propulsion use when lines boats in operation - there should be no wash in the lines boat operational area.

LPC Pilot will

- Confirm Lines Boats are in standby position prior to berthing
- Request that Lines Boats come into position to commence tie-up once vessel is alongside and conditions are safe
- Hand over lines boat operation to LPC Lines Supervisors
- Release Lines Boats once tie-up complete
- Pilot will take control of lines operation as required
- VHF CH11 to be used for communication between Lines Supervisors and Lines Boats. Lines Boats to listen on VHF CH02

Arrival/Departure from Cruise Berth Limits

Vessel LOA / tug assistance	Max 3 second wind speed (southerly quarter)	Max % bow thruster use
320m-360m with Tugs	25kn	36%
250m-320m with Tugs	25kn	40%
200m-250m with Tugs	30kn	84%
<200m with tugs	30kn	No limitation

BERTHING AND LINES

- Vessel is to be centred on the berth.
- Lines to be lowered based on the sequence shown – up two at a time – working inside to out.
- Lines boats cannot move under a moored line. Correction of lines may require outside lines to be winched back to the ship.
- Messenger lines (on ships lines) to be <3.0 metre in length

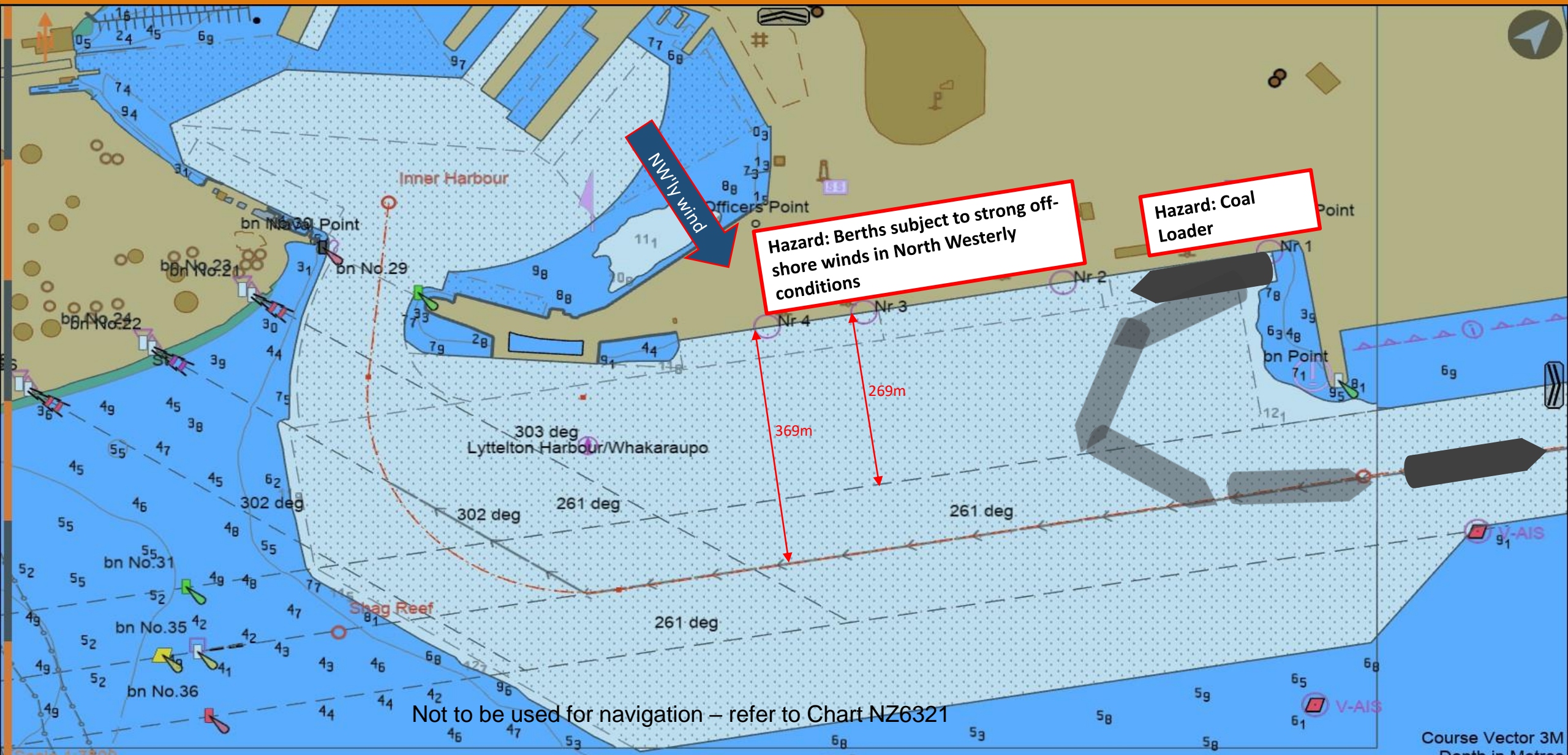
GANGWAYS

- Gangways have a maximum limit of 30 people.
- Gangways can be moved into position quickly once the ship is positioned alongside.

Clear Berth Wind Limits (3 second gusts)

- Cruise Berth: 40kn gusts NW (>220m LOA), else 50kn gusts NW/NE/SW direction
- Inner Harbour (No2. No7): 30kn gusts NW, 50kn gusts SW

Departure: CQ1 SSTQ to Breakwater



Hazard: Berths subject to strong off-shore winds in North Westerly conditions

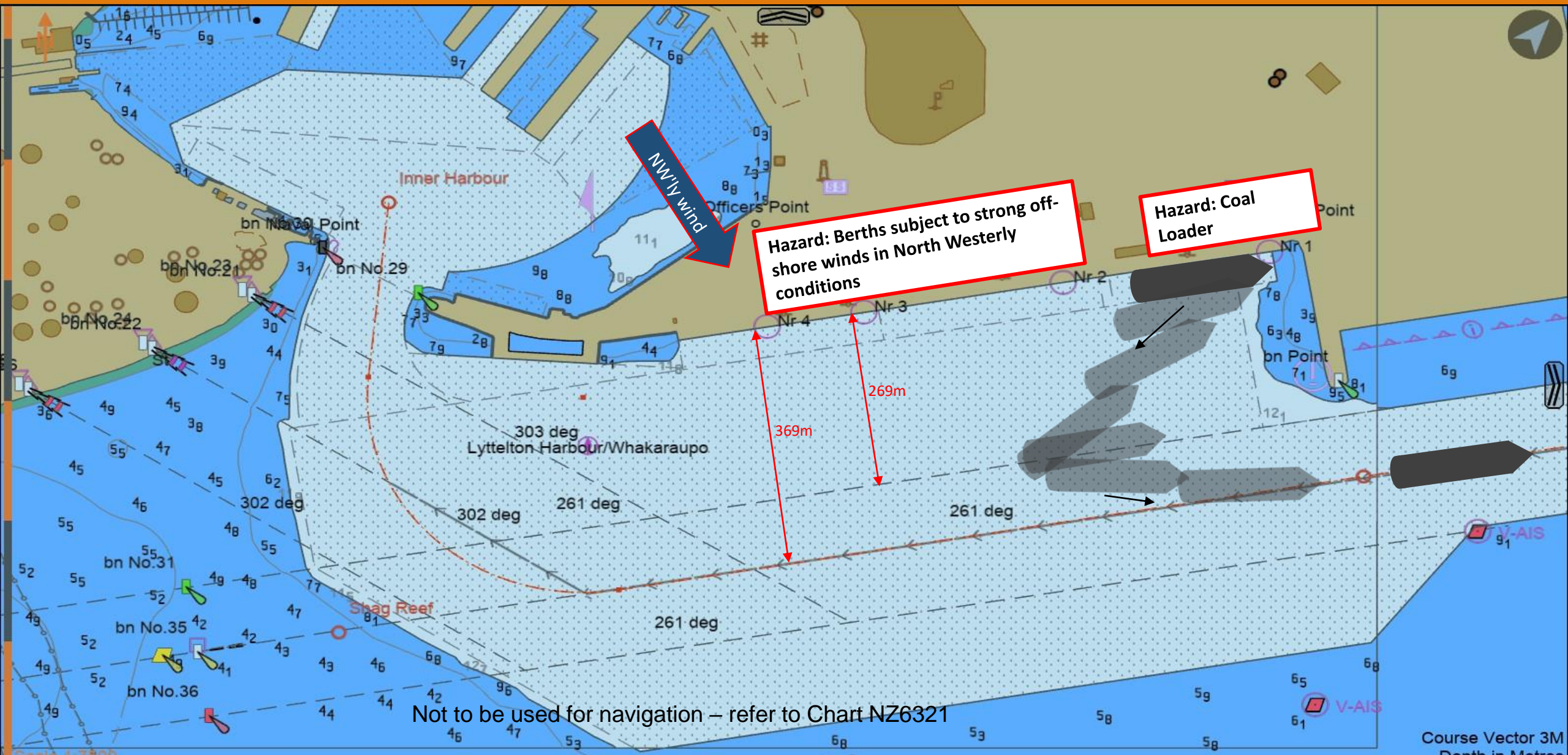
Hazard: Coal Loader

Not to be used for navigation – refer to Chart NZ6321

Scale 1:7500

Course Vector 3M
Depth in Metres

Departure: CQ1 PSTQ to Breakwater

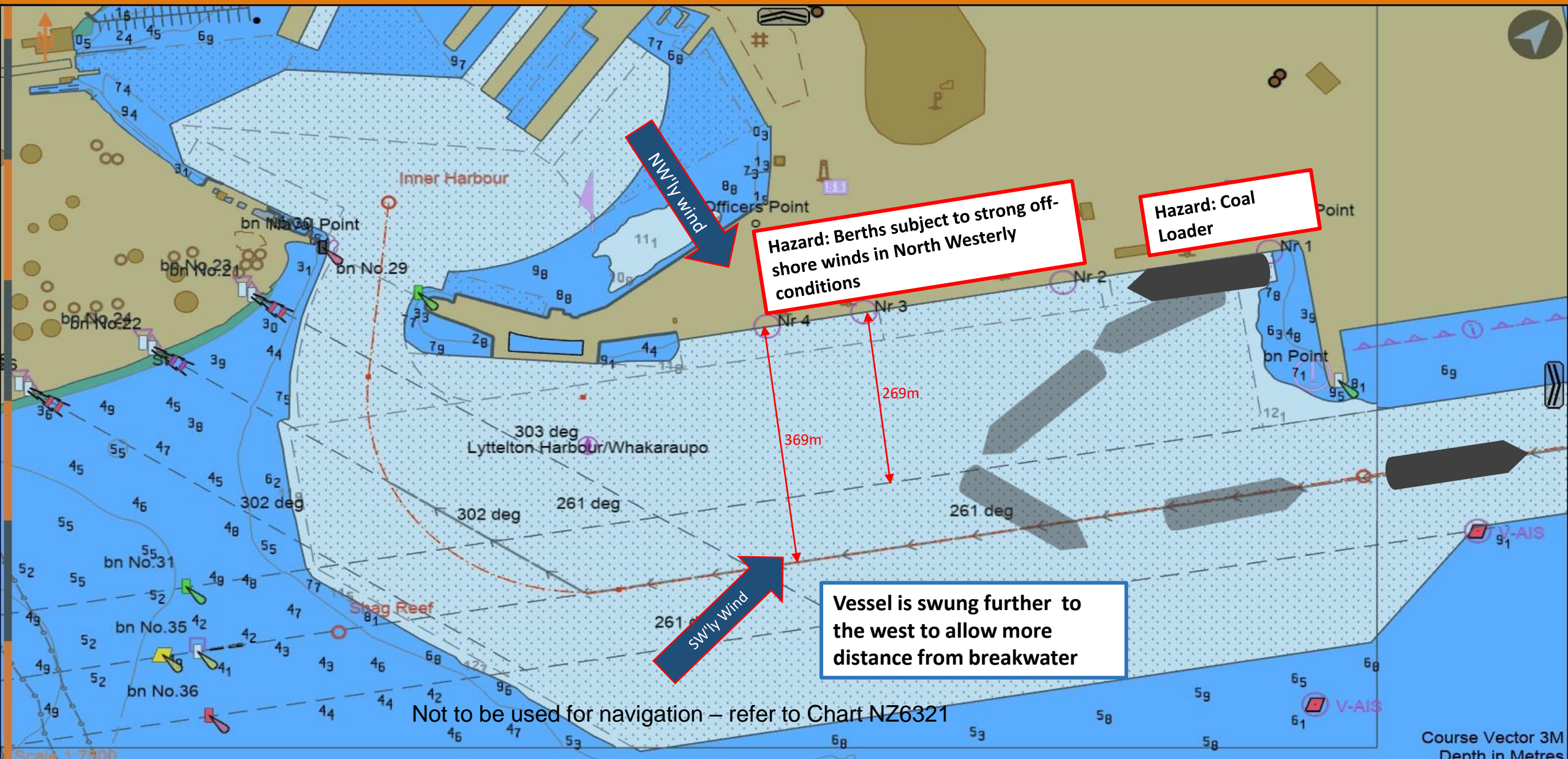


Not to be used for navigation – refer to Chart NZ6321

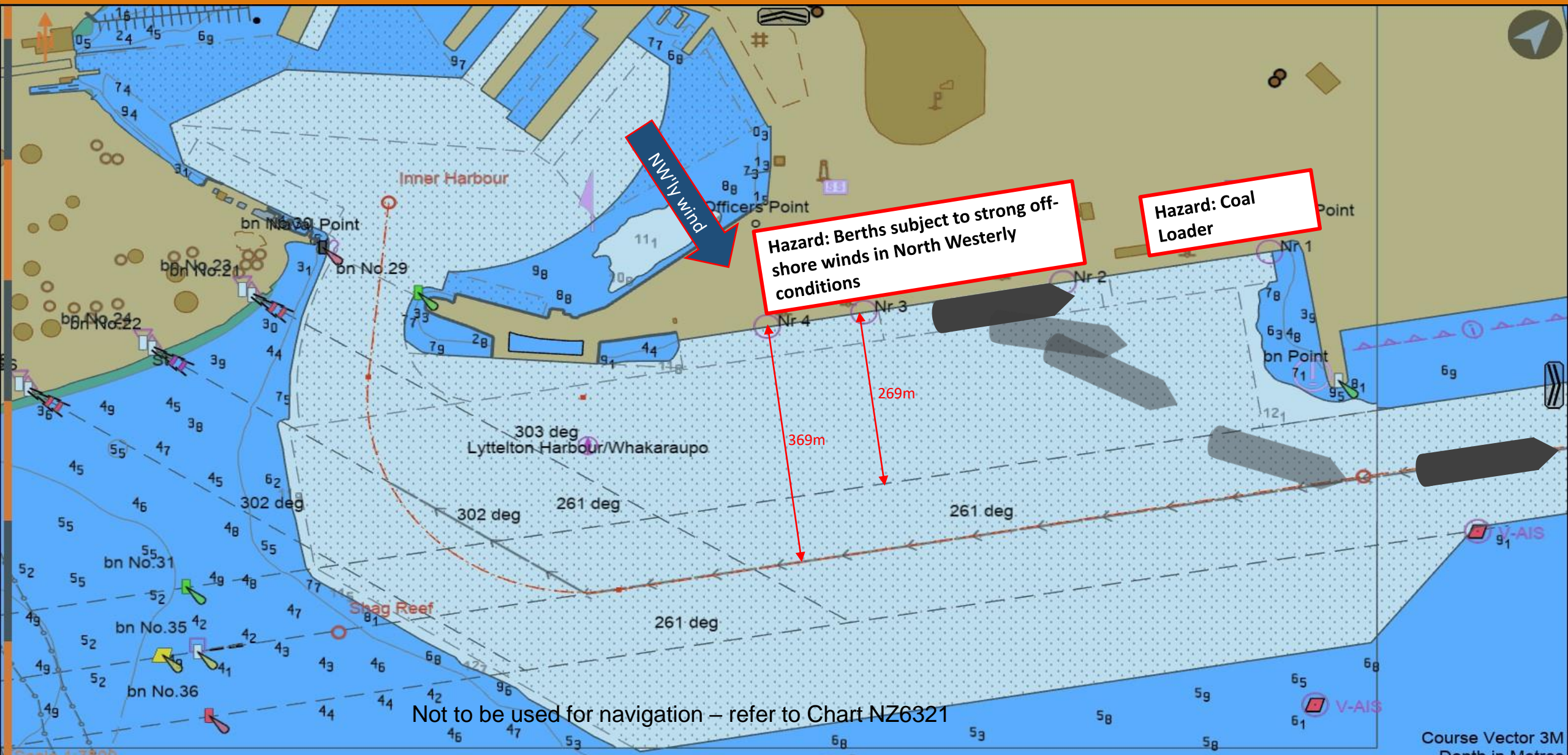
Scale 1:7500

Course Vector 3M
Depth in Metres

Departure: CQ1 SSTQ to Breakwater – Strong S'yly Wind



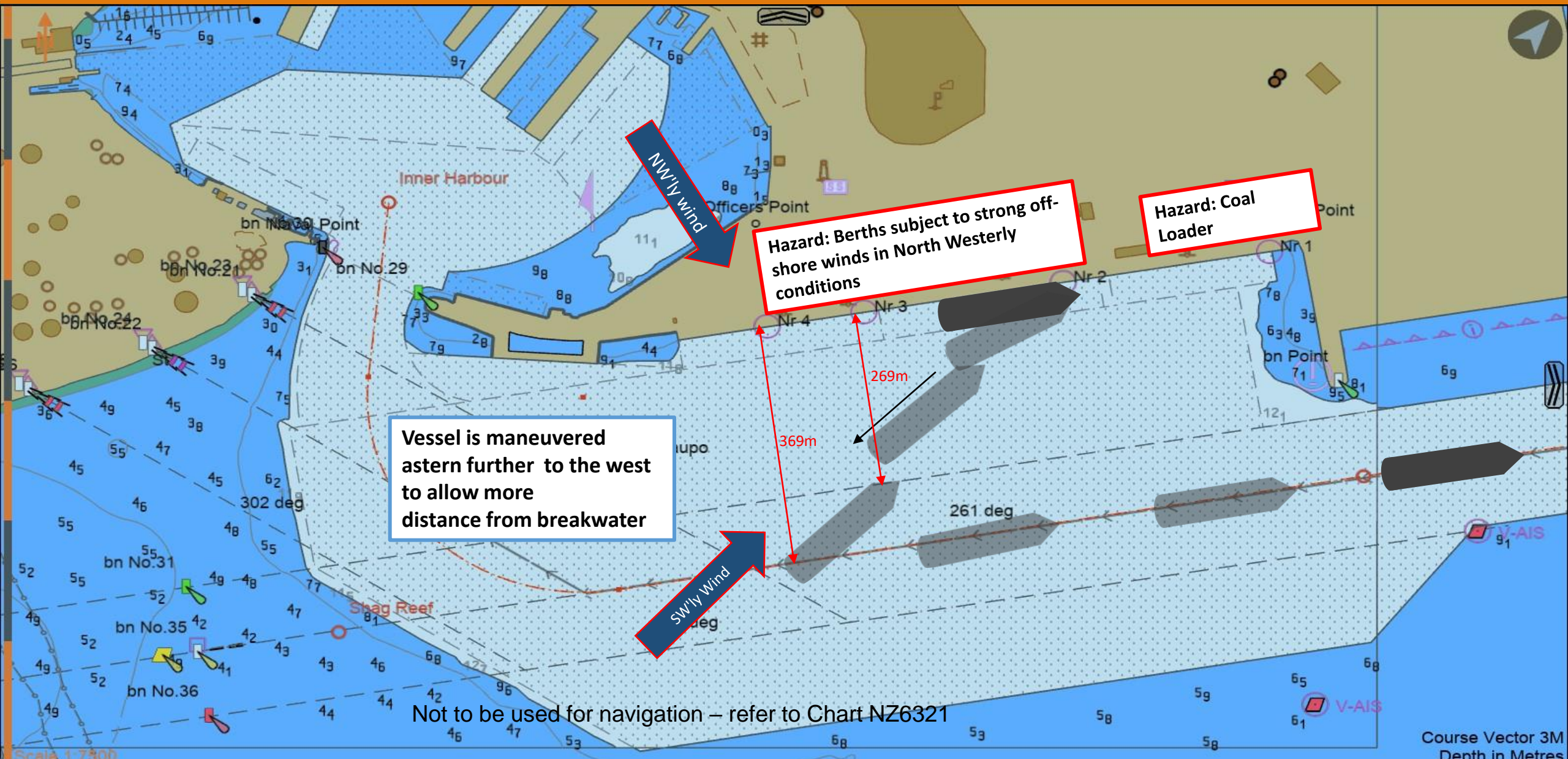
Departure: CQ-East PSTQ to Breakwater



Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres

Departure: CQ-East PSTQ to Breakwater – Strong SW'y Wind



Vessel is maneuvered
astern further to the west
to allow more
distance from breakwater

Hazard: Berths subject to strong off-shore winds in North Westerly conditions

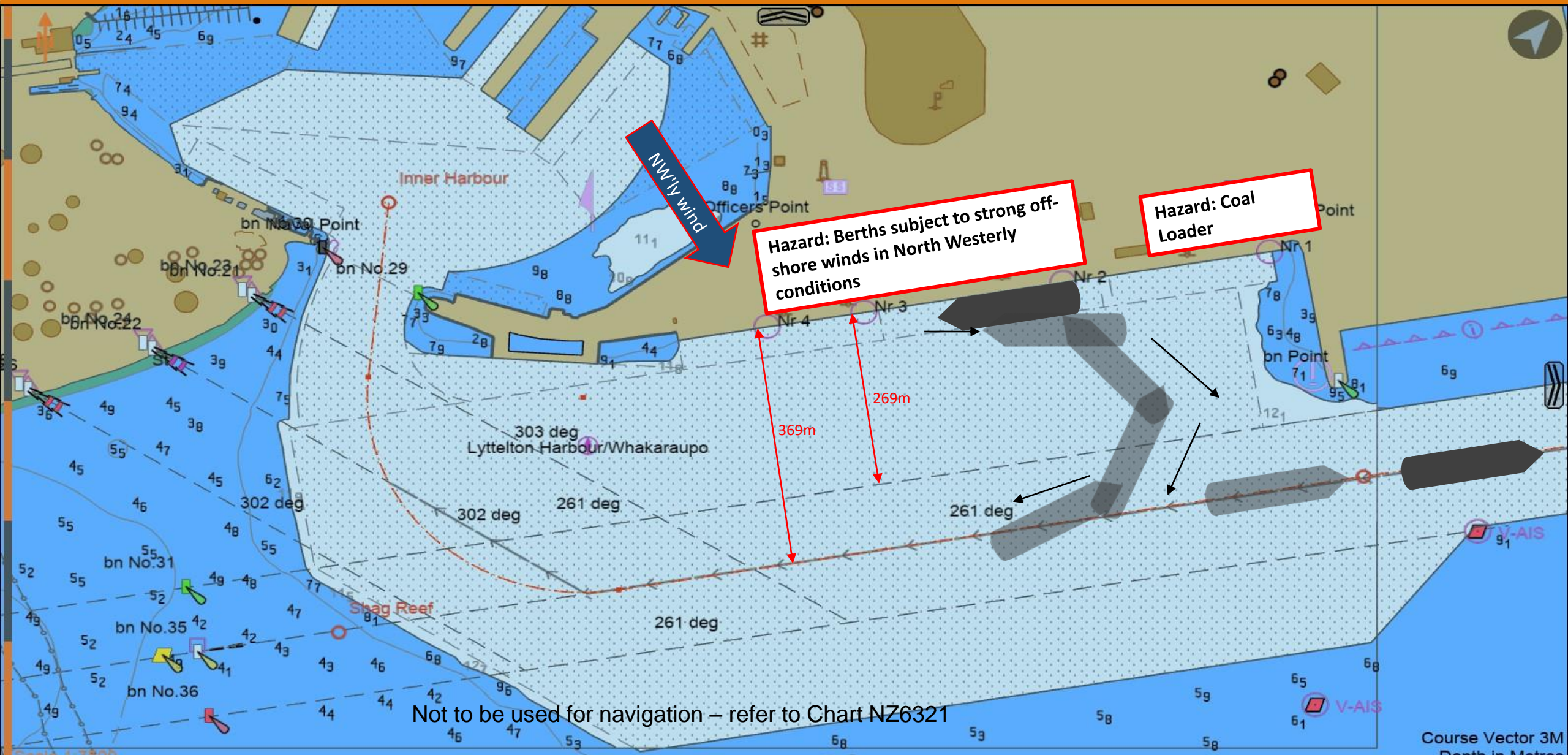
Hazard: Coal Loader

Not to be used for navigation – refer to Chart NZ6321

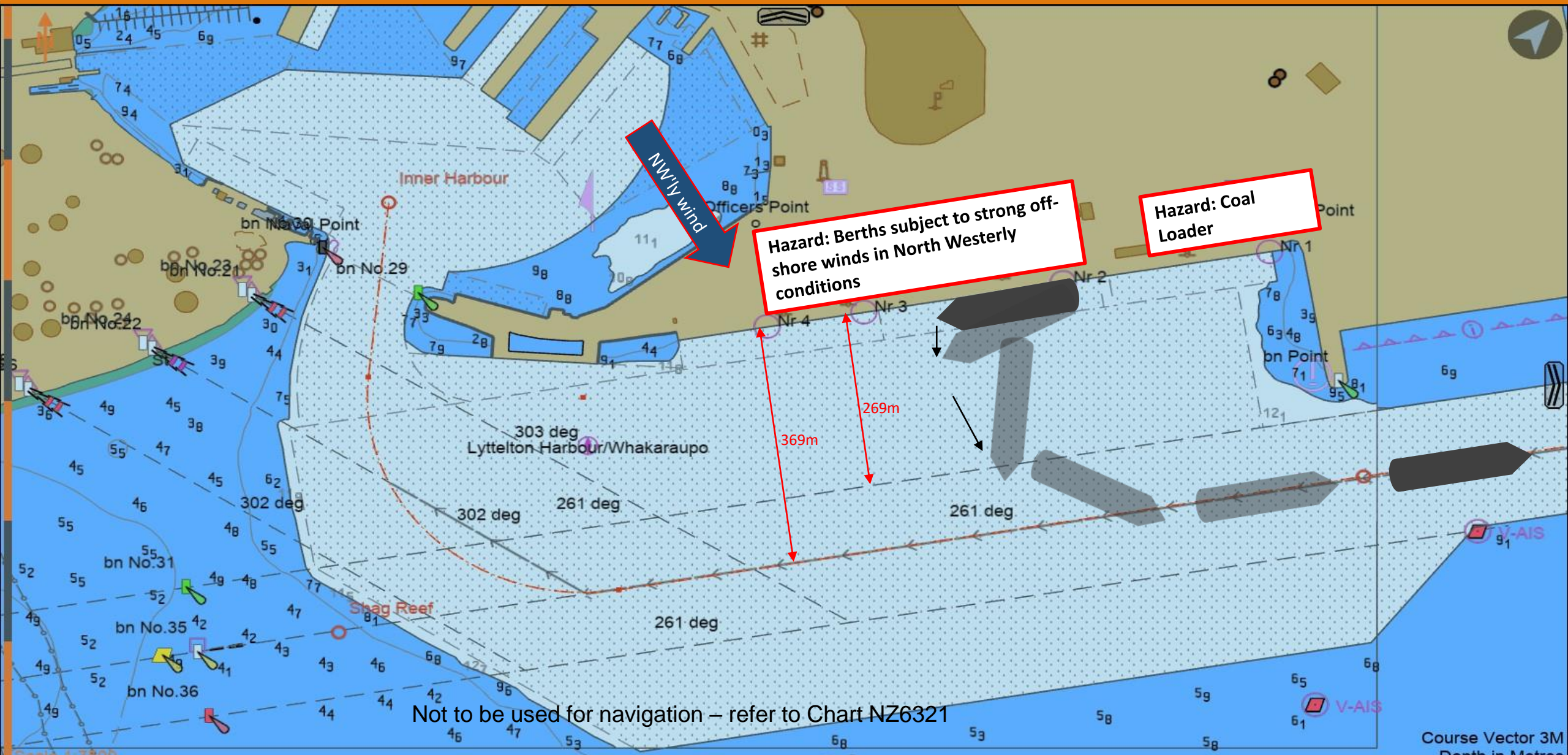
Scale 1:7500

Course Vector 3M
Depth in Metres

Departure: CQ-East SSTQ to Breakwater (Bow to Stbd)

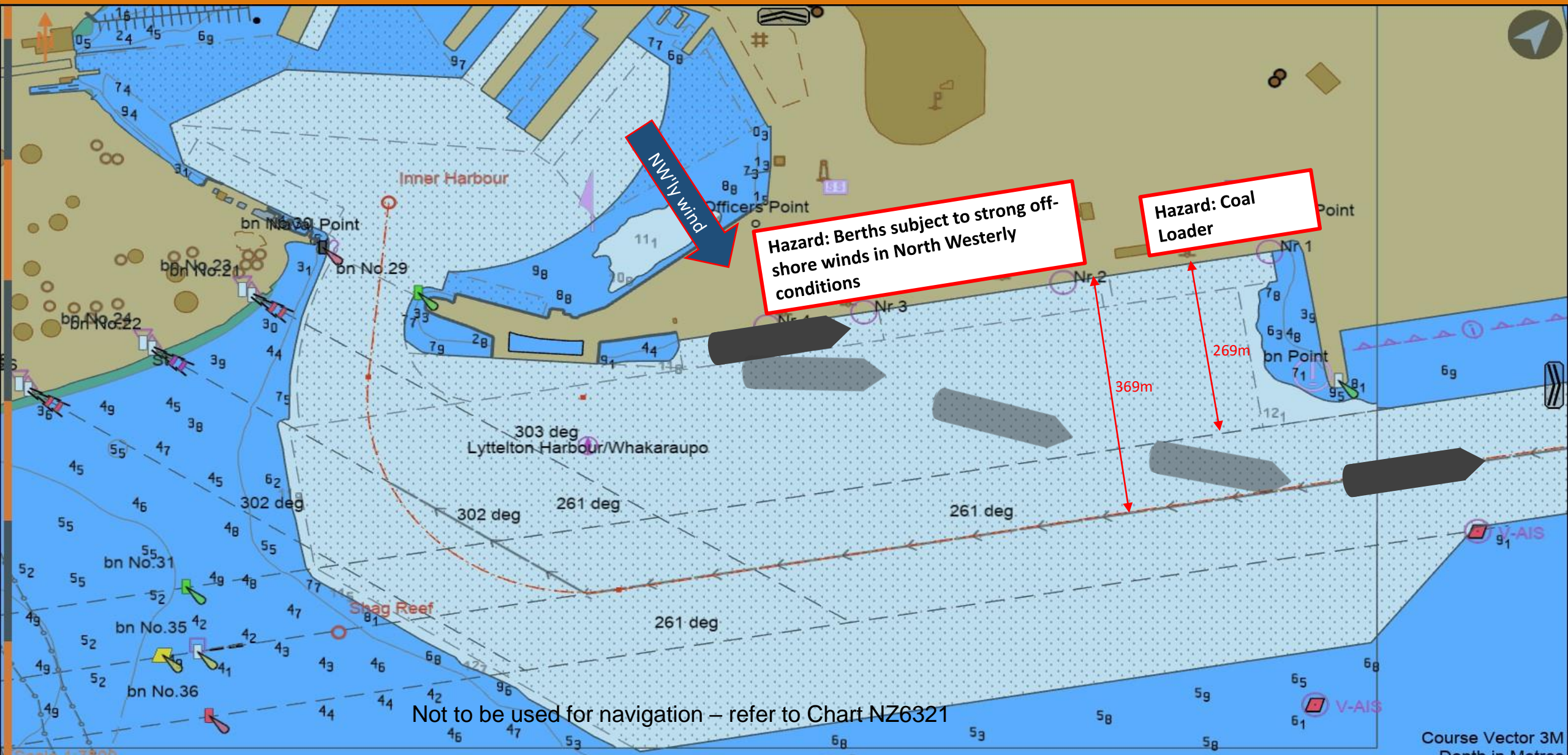


Departure: CQ-East SSTQ to Breakwater (Bow to Port)



Not to be used for navigation – refer to Chart NZ6321

Departure: CQ-West PSTQ to Breakwater



Hazard: Berths subject to strong off-shore winds in North Westerly conditions

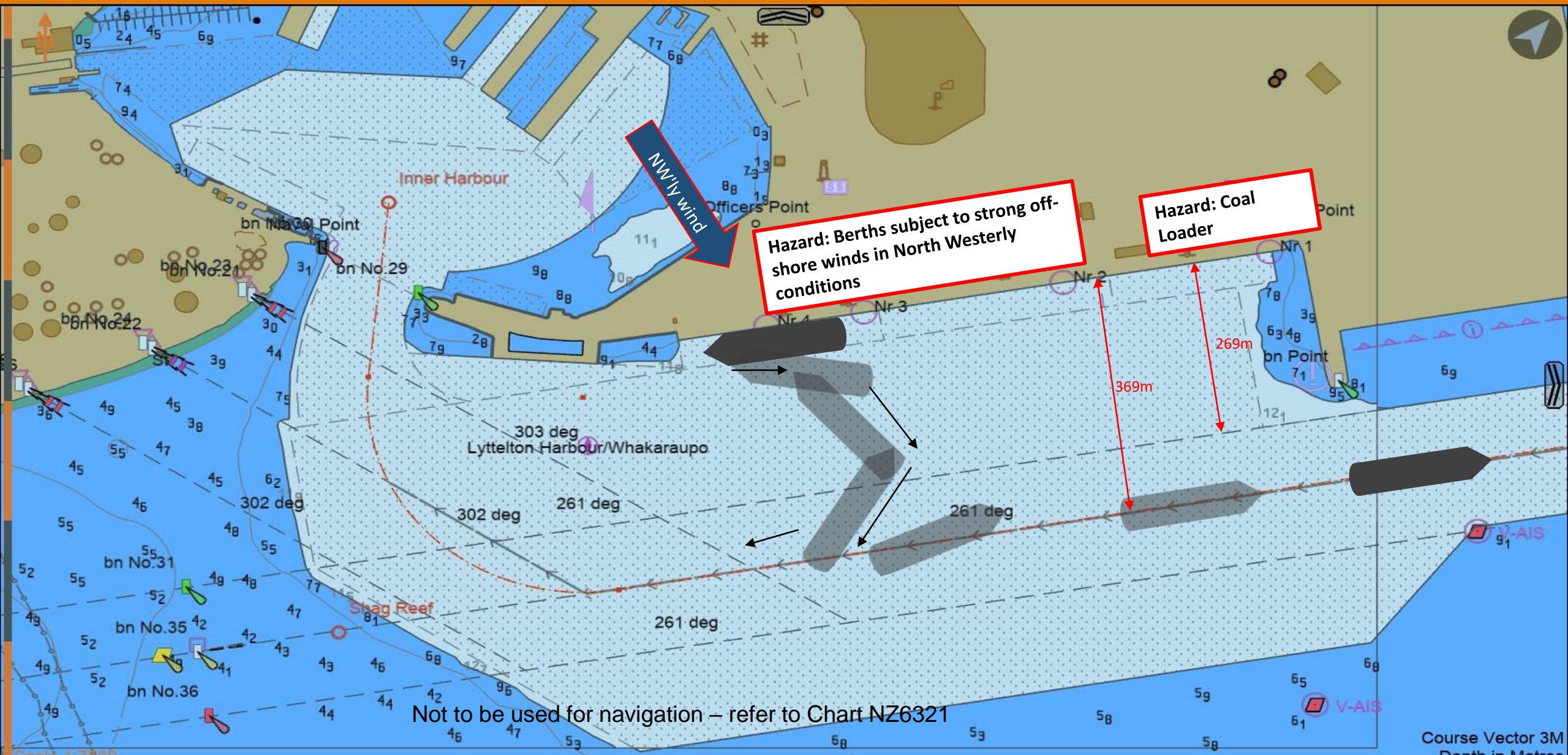
Hazard: Coal Loader

Not to be used for navigation – refer to Chart NZ6321

Scale 1:7500

Course Vector 3M
Depth in Metres

Departure: CQ-West SSTQ to Breakwater (Bow to Stbd)



Hazard: Berths subject to strong off-shore winds in North Westerly conditions

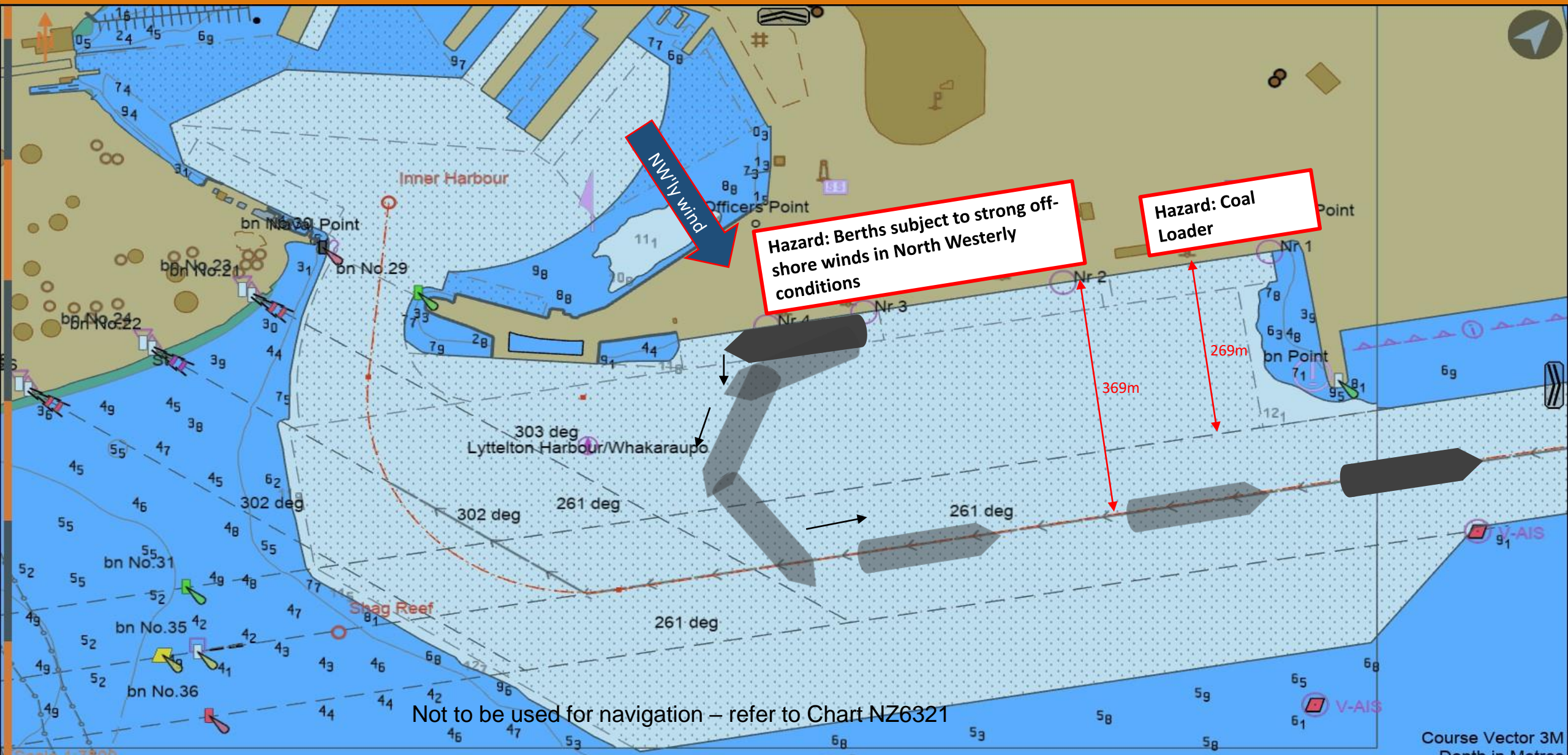
Hazard: Coal Loader

Not to be used for navigation – refer to Chart NZ6321

Scale 1:7500

Course Vector 3M
Depth in Metres

Departure: CQ-West SSTQ to Breakwater (Bow to Port)

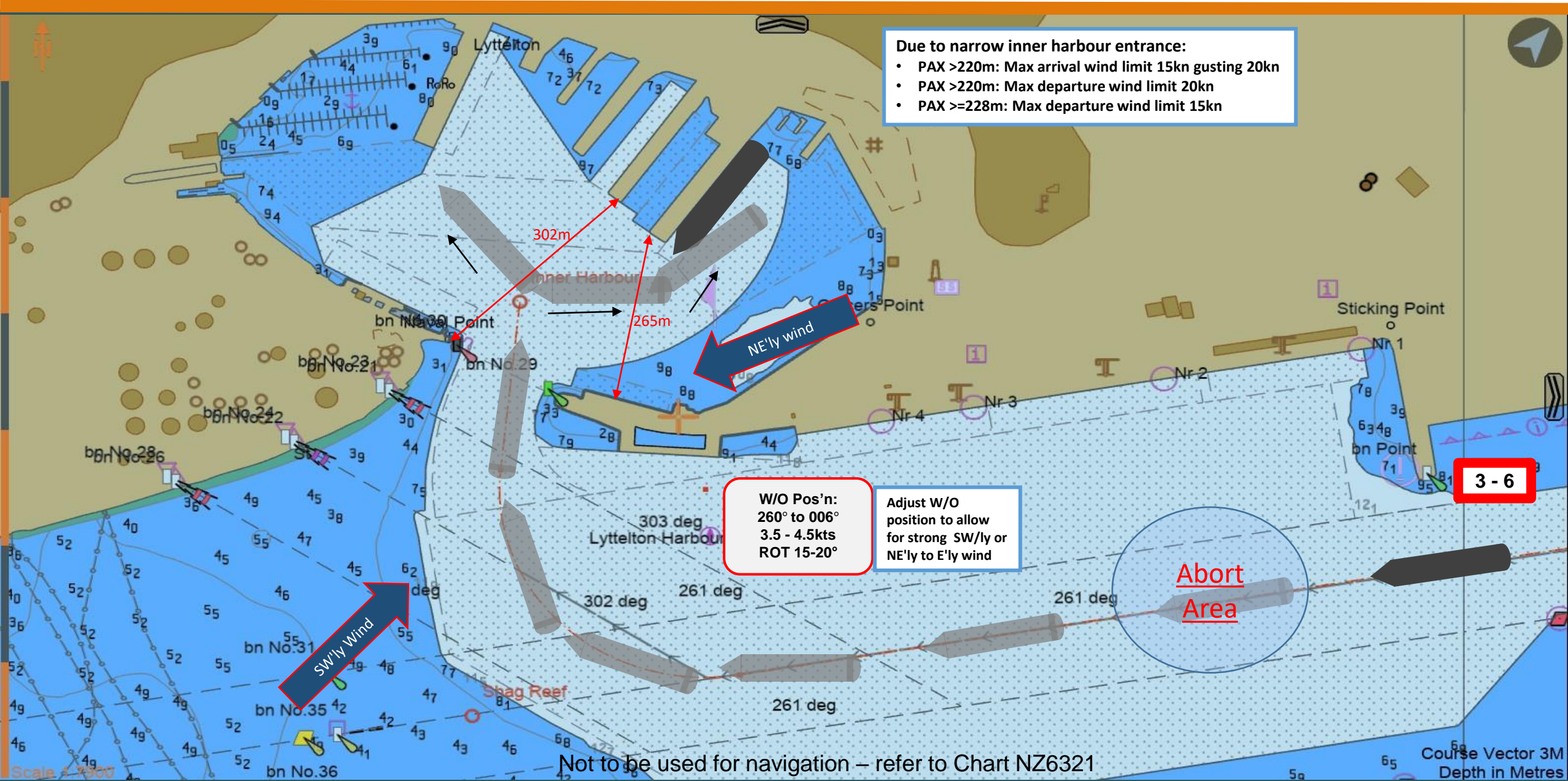


Hazard: Berths subject to strong off-shore winds in North Westerly conditions

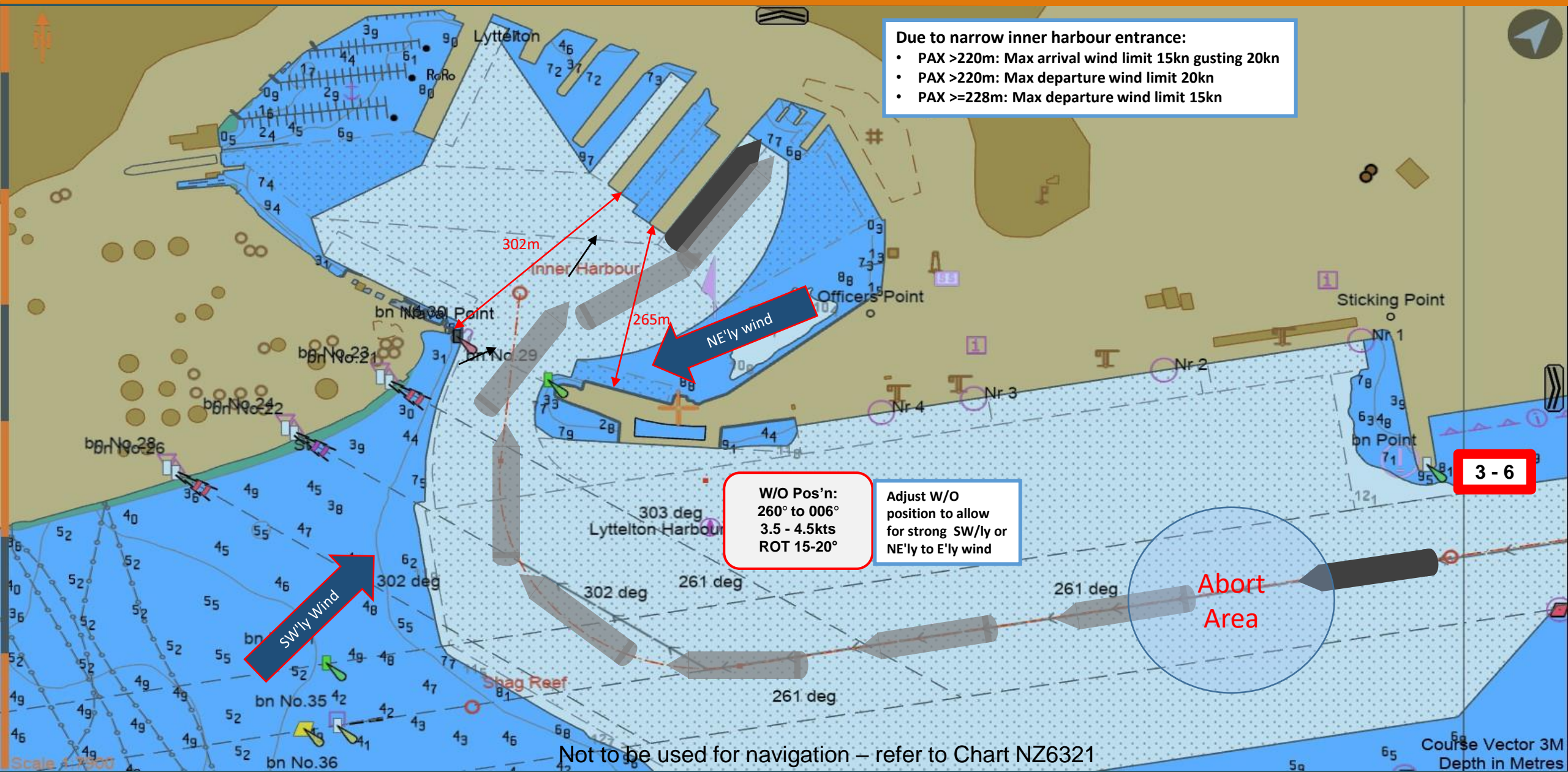
Hazard: Coal Loader

Not to be used for navigation – refer to Chart NZ6321

Arrival: Breakwater to 2East SSTQ



Arrival: Breakwater to 2East PSTQ



Due to narrow inner harbour entrance:

- PAX >220m: Max arrival wind limit 15kn gusting 20kn
- PAX >220m: Max departure wind limit 20kn
- PAX >=228m: Max departure wind limit 15kn

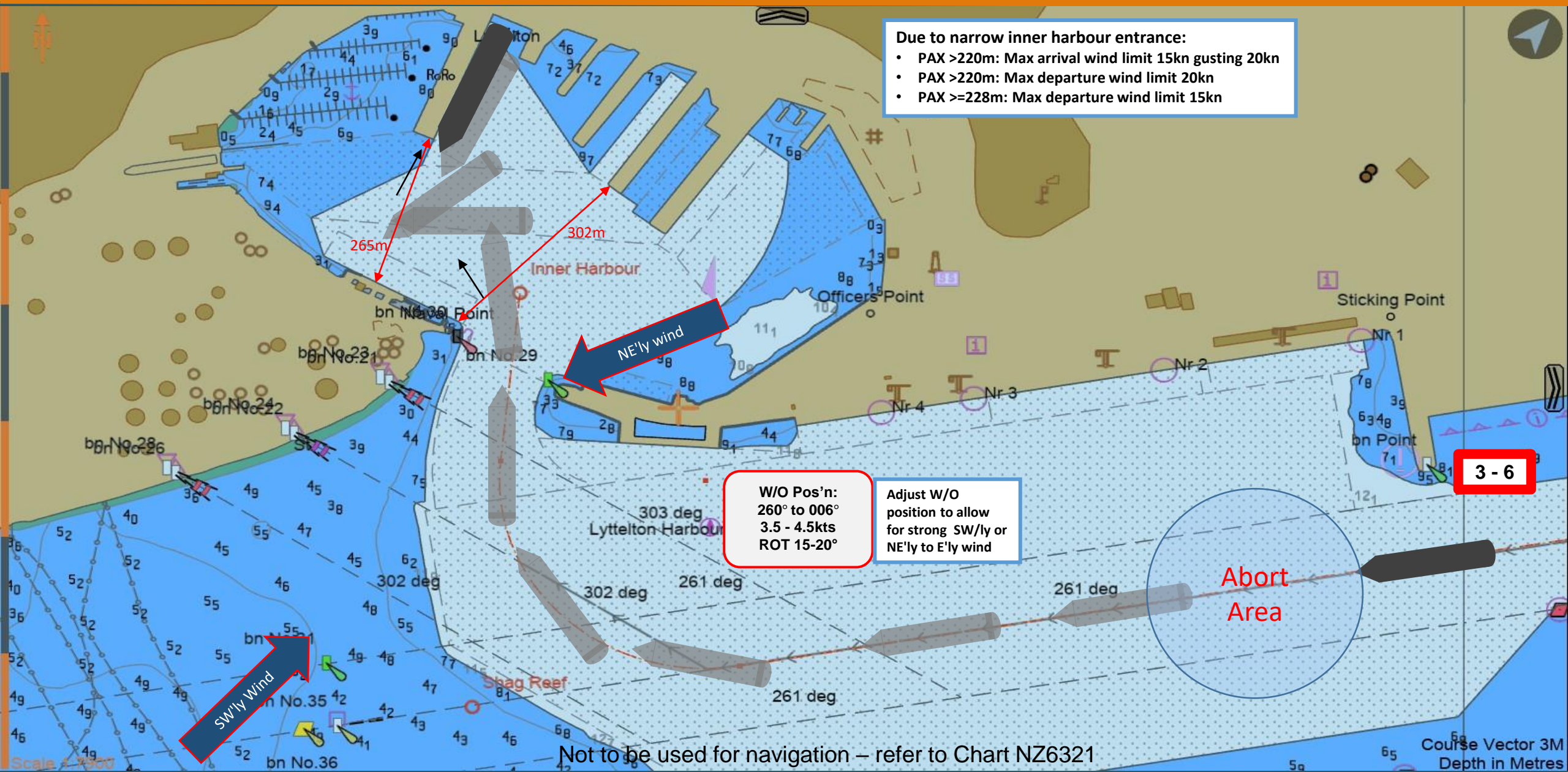
W/O Pos'n:
260° to 006°
3.5 - 4.5kts
ROT 15-20°

Adjust W/O
position to allow
for strong SW'ly or
NE'ly to E'ly wind

3-6

Abort Area

Arrival: Breakwater to 7East SSTQ



Due to narrow inner harbour entrance:

- PAX >220m: Max arrival wind limit 15kn gusting 20kn
- PAX >220m: Max departure wind limit 20kn
- PAX >=228m: Max departure wind limit 15kn

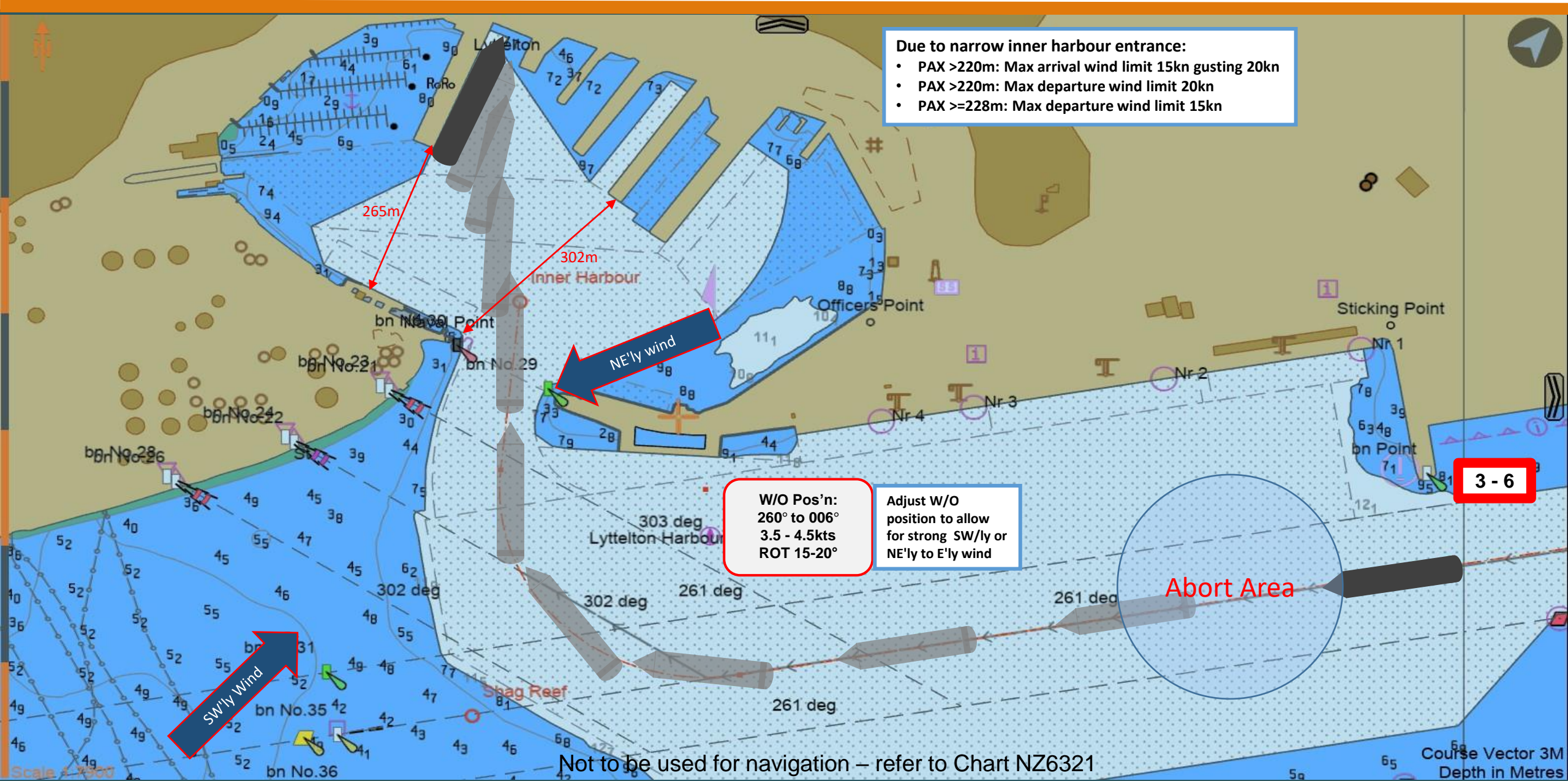
W/O Pos'n:
260° to 006°
3.5 - 4.5kts
ROT 15-20°

Adjust W/O
position to allow
for strong SW'ly or
NE'ly to E'ly wind

3 - 6

Abort
Area

Arrival: Breakwater to 7East PSTQ



Due to narrow inner harbour entrance:

- PAX >220m: Max arrival wind limit 15kn gusting 20kn
- PAX >220m: Max departure wind limit 20kn
- PAX >=228m: Max departure wind limit 15kn

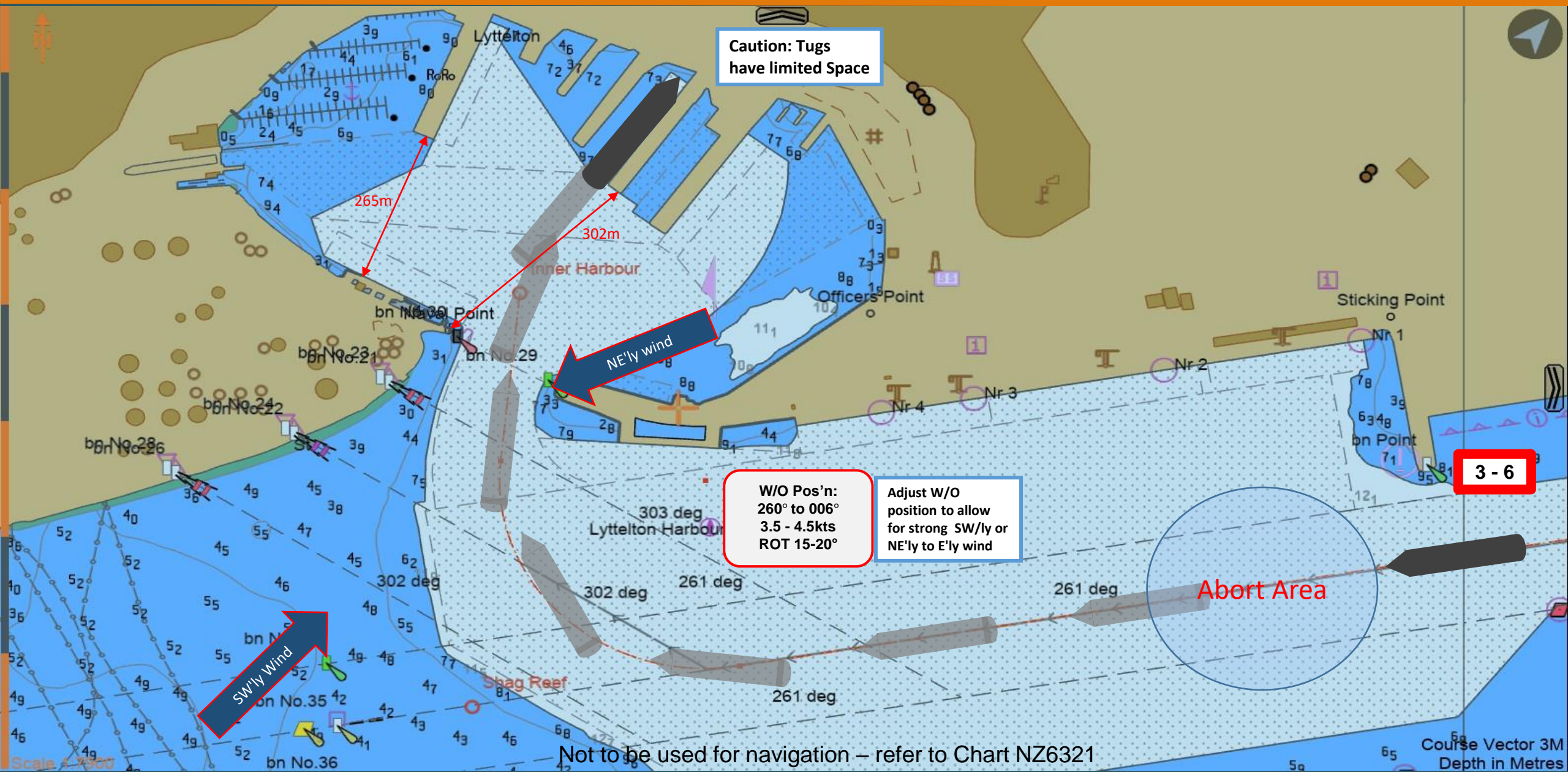
W/O Pos'n:
260° to 006°
3.5 - 4.5kts
ROT 15-20°

Adjust W/O
position to allow
for strong SW'ly or
NE'ly to E'ly wind

3 - 6

Abort Area

Arrival: Breakwater to 3West SSTQ



Caution: Tugs have limited Space

265m

302m

NE'ly wind

SW'ly Wind

W/O Pos'n:
260° to 006°
3.5 - 4.5kts
ROT 15-20°

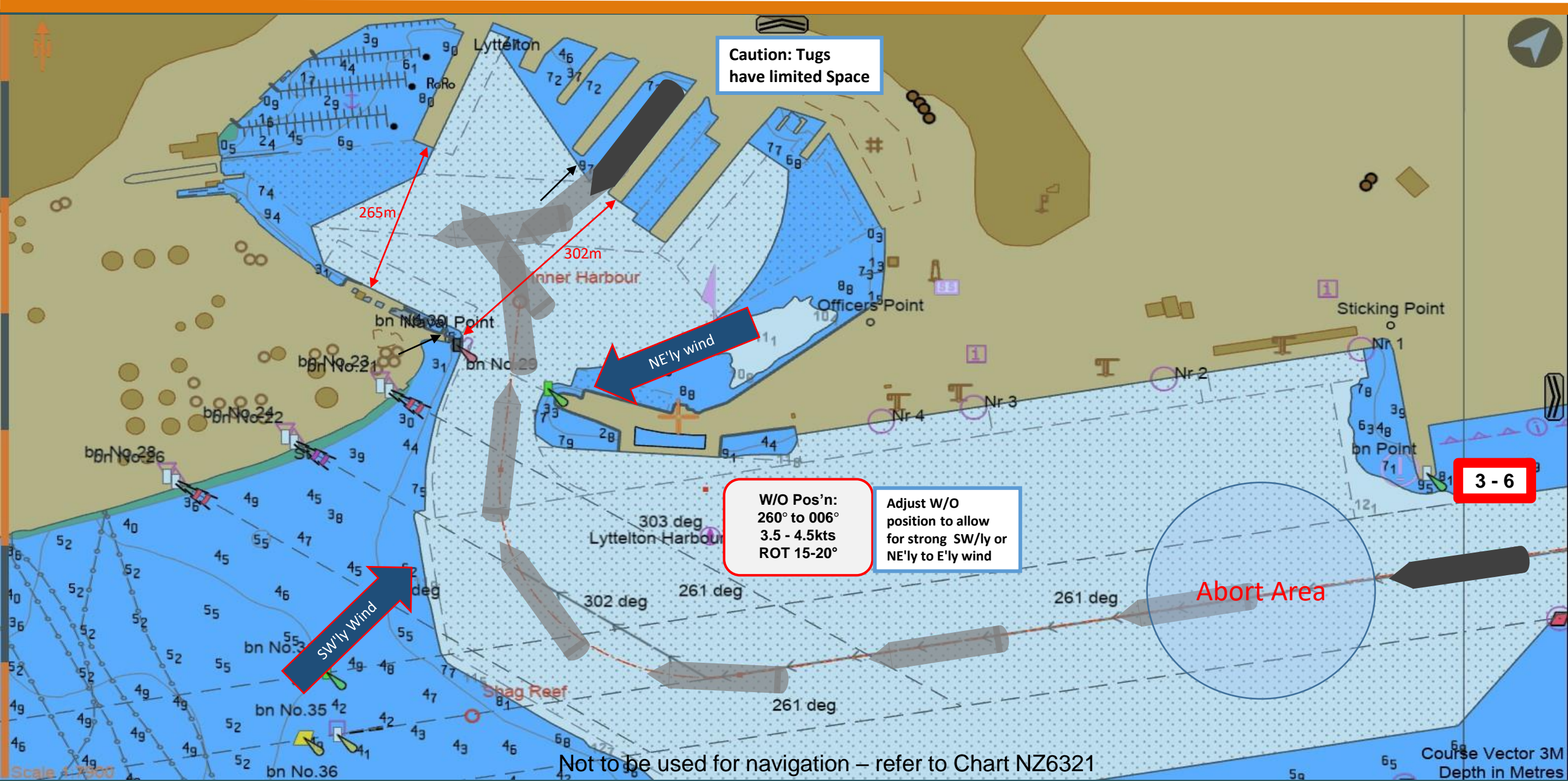
Adjust W/O position to allow for strong SW'ly or NE'ly to E'ly wind

3 - 6

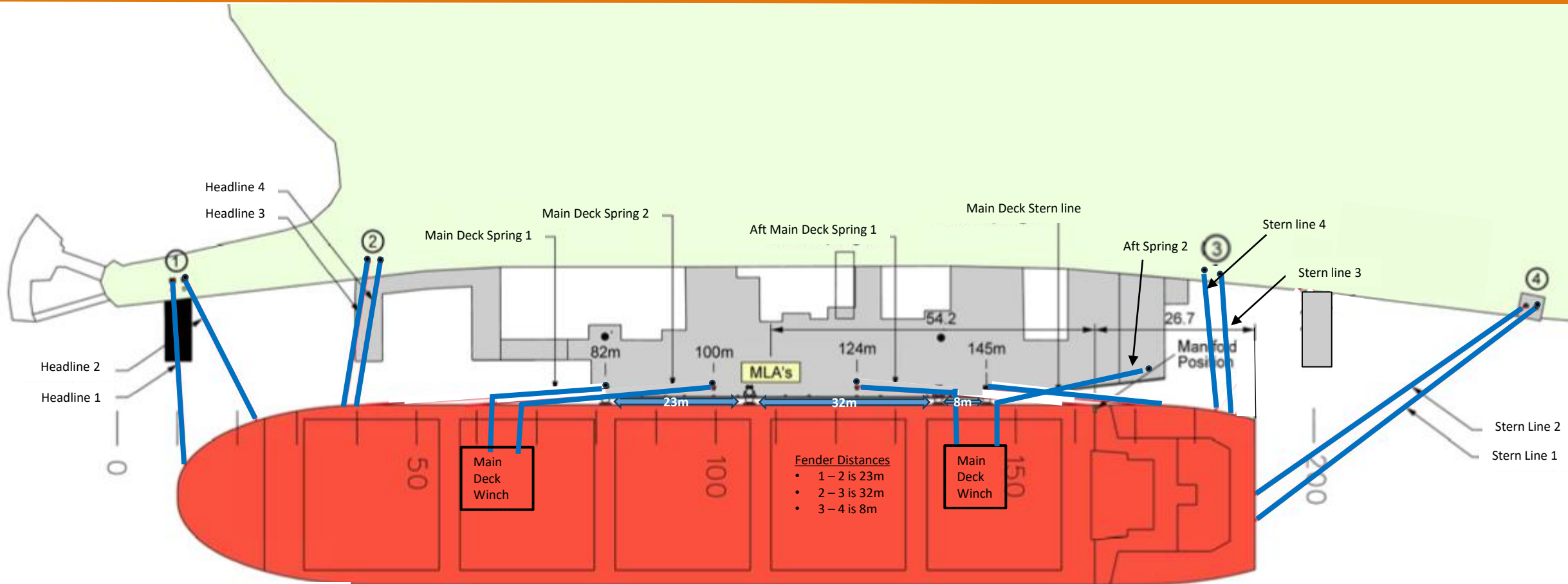
Abort Area

Not to be used for navigation – refer to Chart NZ6321

Arrival: Breakwater to 3West PSTQ



Oil Berth Arrival Tanker 183m LOA – Mooring Operation



Fender Distances

- 1 – 2 is 23m
- 2 – 3 is 32m
- 3 – 4 is 8m

MOORING LINE	BOLLARD LOCATION	BOLLARD CAPACITY
Head Line 1	Landside Mooring Group ①	50 Tonnes
Head Line 2	Landside Mooring Group ①	50 Tonnes
Head Line 3	Landside Mooring Group ②	50 Tonnes
Head Line 4	Landside Mooring Group ②	50 Tonnes
Bow Spring 1	82m	75 Tonnes
Bow Spring 2	100m	50 Tonnes
Stern Spring 1	145m	75 Tonnes
Stern Spring 2	124m	50 Tonnes
Stern Line 1	Landside Mooring Group ④	50 Tonnes
Stern Line 2	Landside Mooring Group ④	50 Tonnes
Stern Line 3	Landside Mooring Group ③	50 Tonnes
Stern Line 4	Landside Mooring Group ③	50 Tonnes

Moorings

- Moorings to be discussed during Master Pilot exchange. When strong winds are forecast head and stern lines should be increased accordingly - factors to consider will be the type and strength of moorings, freeboard, wind direction and duration of stay
- Only Two lines permitted at Each landside group 1 – 4.
- Crew at the stern of the vessel can pass heaving lines for first spring as stern is passing fender #4.

Wind

- Clear Berth limit 60 knots (3 Second Gusts)
- When the wind speed forecast is SW 45 Knots, the Oil Company, Liquidgas, the Ship and the Duty Pilot are to review the forecast and if wind is forecast to strengthen:
 - Discharge operations to stop.
 - The MLA / LPG arm to be disconnected.
 - A Tug will be placed on standby.

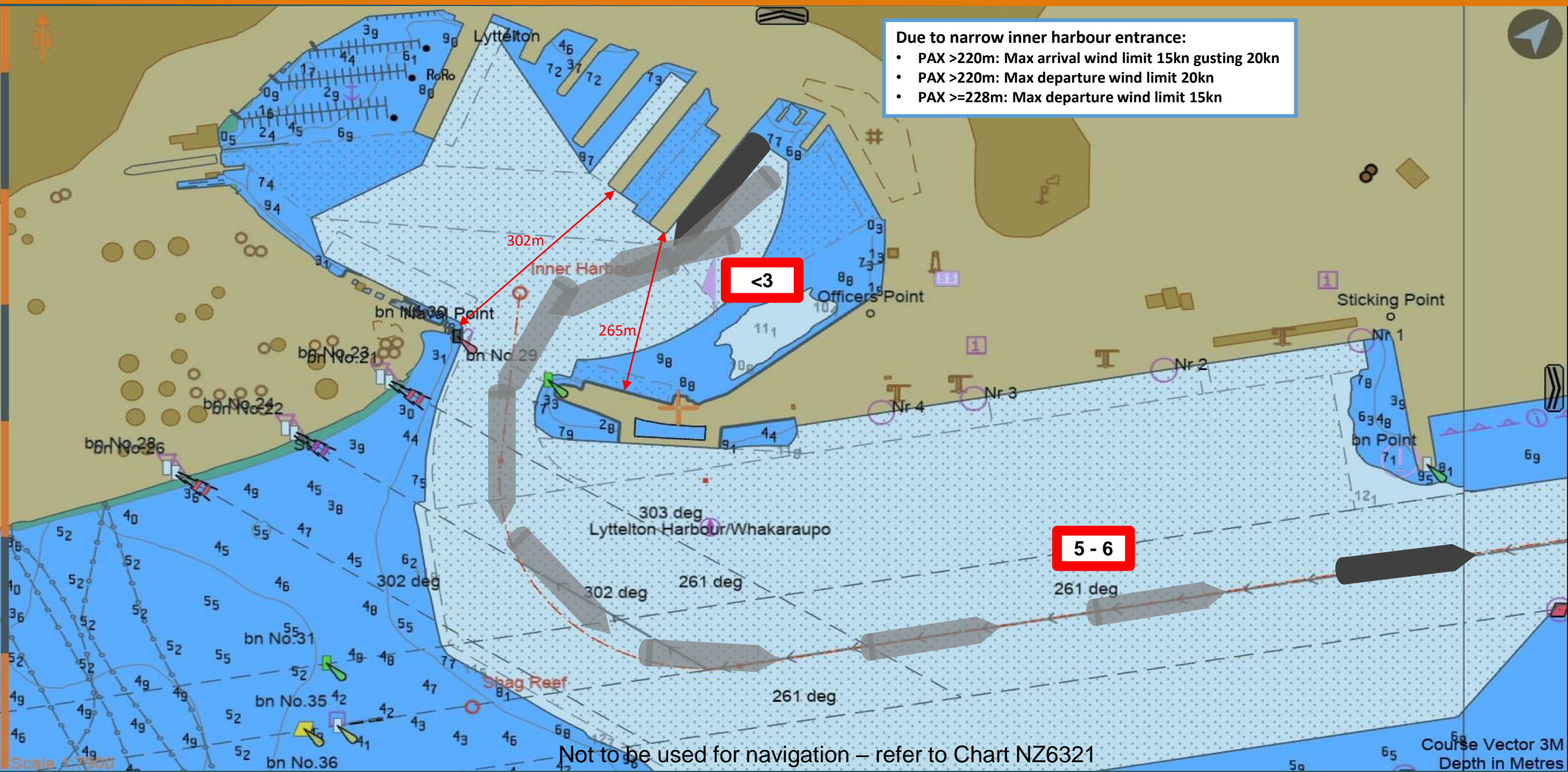
Berth Information

- The main wharf structure is 115m long and approx. 25m wide
- Maximum vessel length is 200m with a maximum draught of 11.2m
- The wharf has a modern fender and mooring system, with Trelleborg fenders. The wharf deck is lightweight concrete providing access for operations and vessel personnel.
- Facilities include:
 - 3 Marine unloading arms for discharge of petroleum products
 - 1 Marine unloading arm for LPG
 - Facilities for discharge of bitumen and methanol
 - Bunkering facilities
 - Potable water supply

Departure: 2East SSTQ to Breakwater

Due to narrow inner harbour entrance:

- PAX >220m: Max arrival wind limit 15kn gusting 20kn
- PAX >220m: Max departure wind limit 20kn
- PAX >=228m: Max departure wind limit 15kn



Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres

Departure: 2East SSTQ to Breakwater

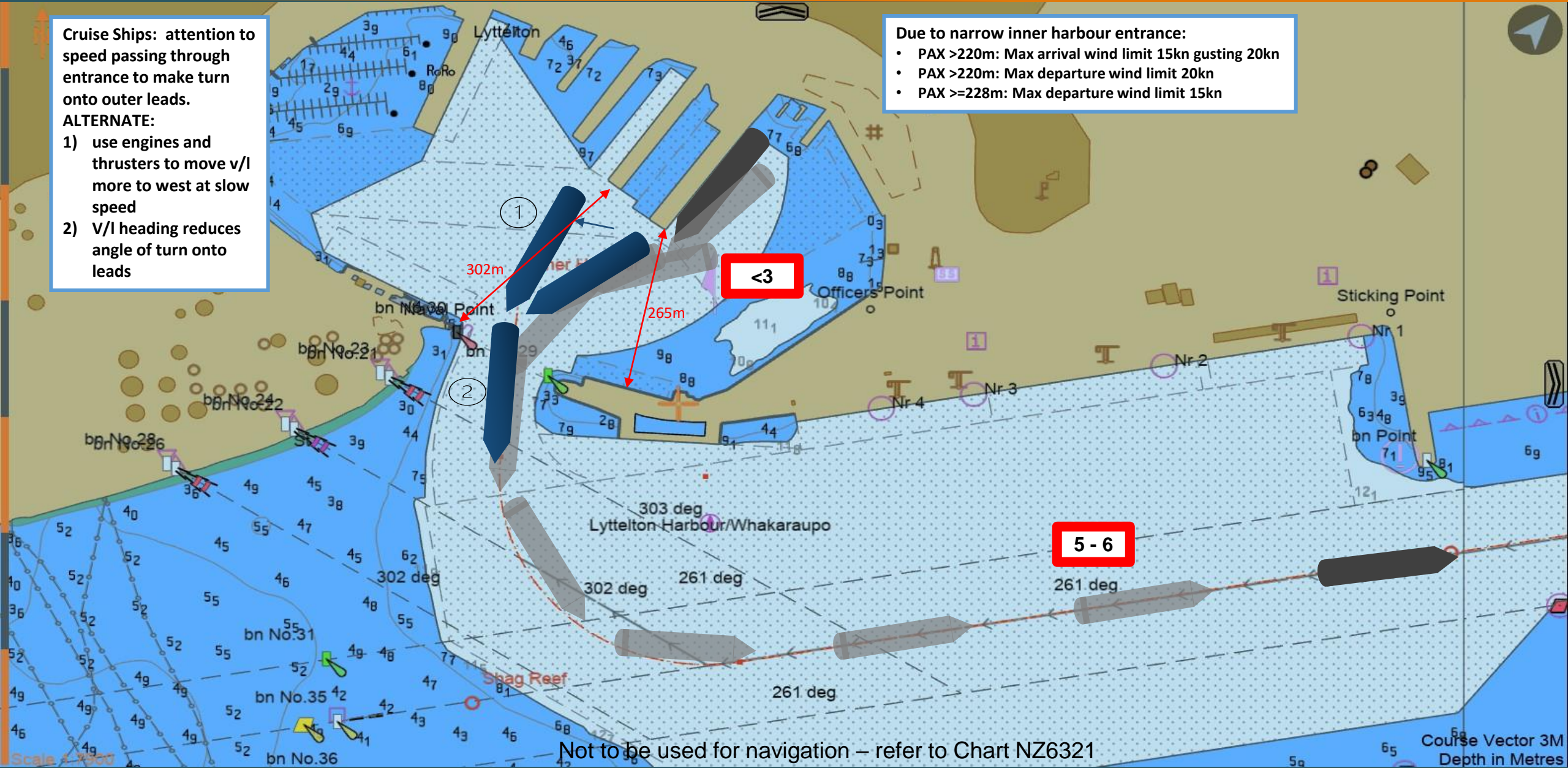
Cruise Ships: attention to speed passing through entrance to make turn onto outer leads.

ALTERNATE:

- 1) use engines and thrusters to move v/l more to west at slow speed
- 2) V/l heading reduces angle of turn onto leads

Due to narrow inner harbour entrance:

- PAX >220m: Max arrival wind limit 15kn gusting 20kn
- PAX >220m: Max departure wind limit 20kn
- PAX >=228m: Max departure wind limit 15kn



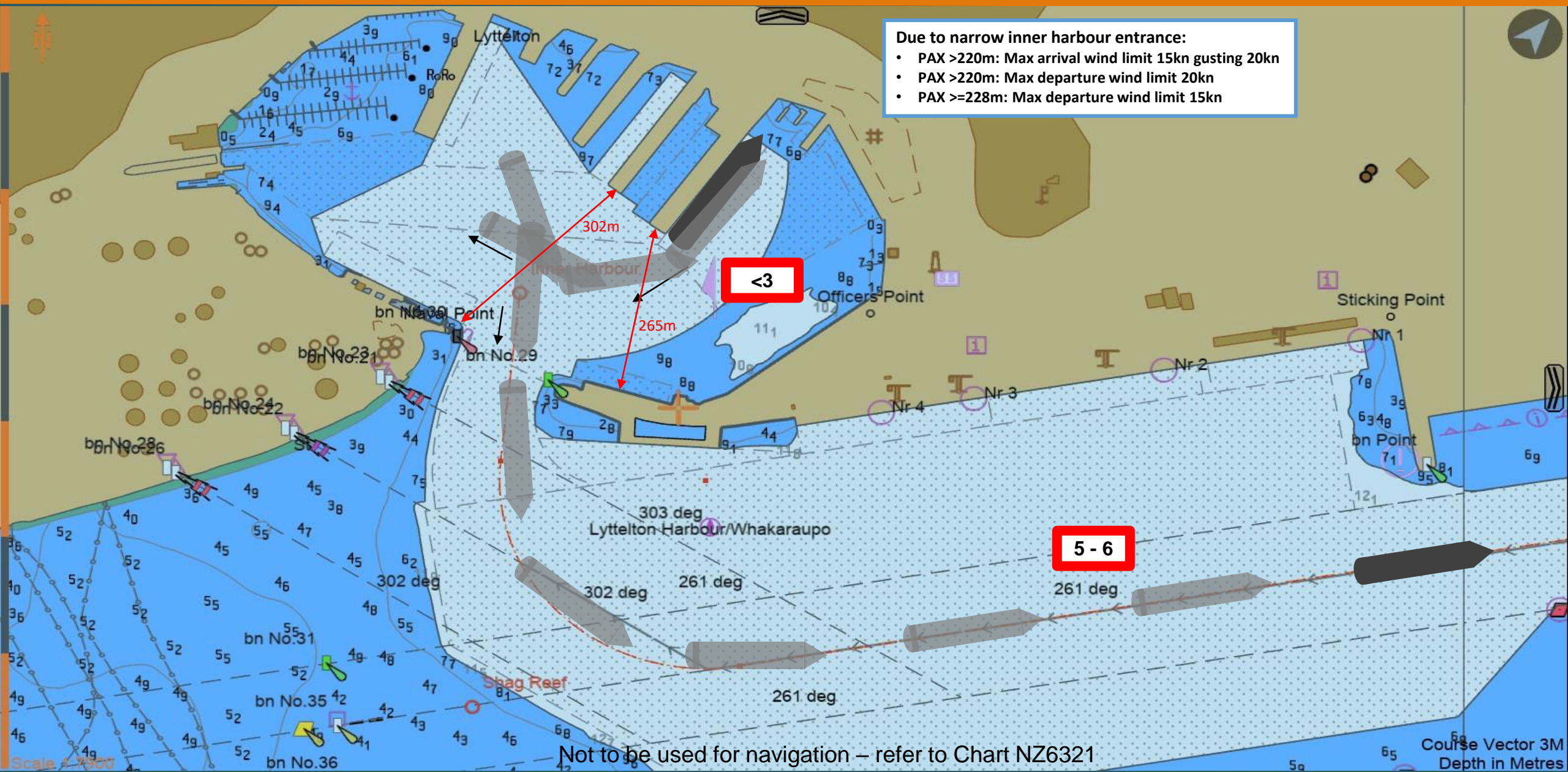
Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres

Departure: 2East PSTQ to Breakwater

Due to narrow inner harbour entrance:

- PAX >220m: Max arrival wind limit 15kn gusting 20kn
- PAX >220m: Max departure wind limit 20kn
- PAX >=228m: Max departure wind limit 15kn



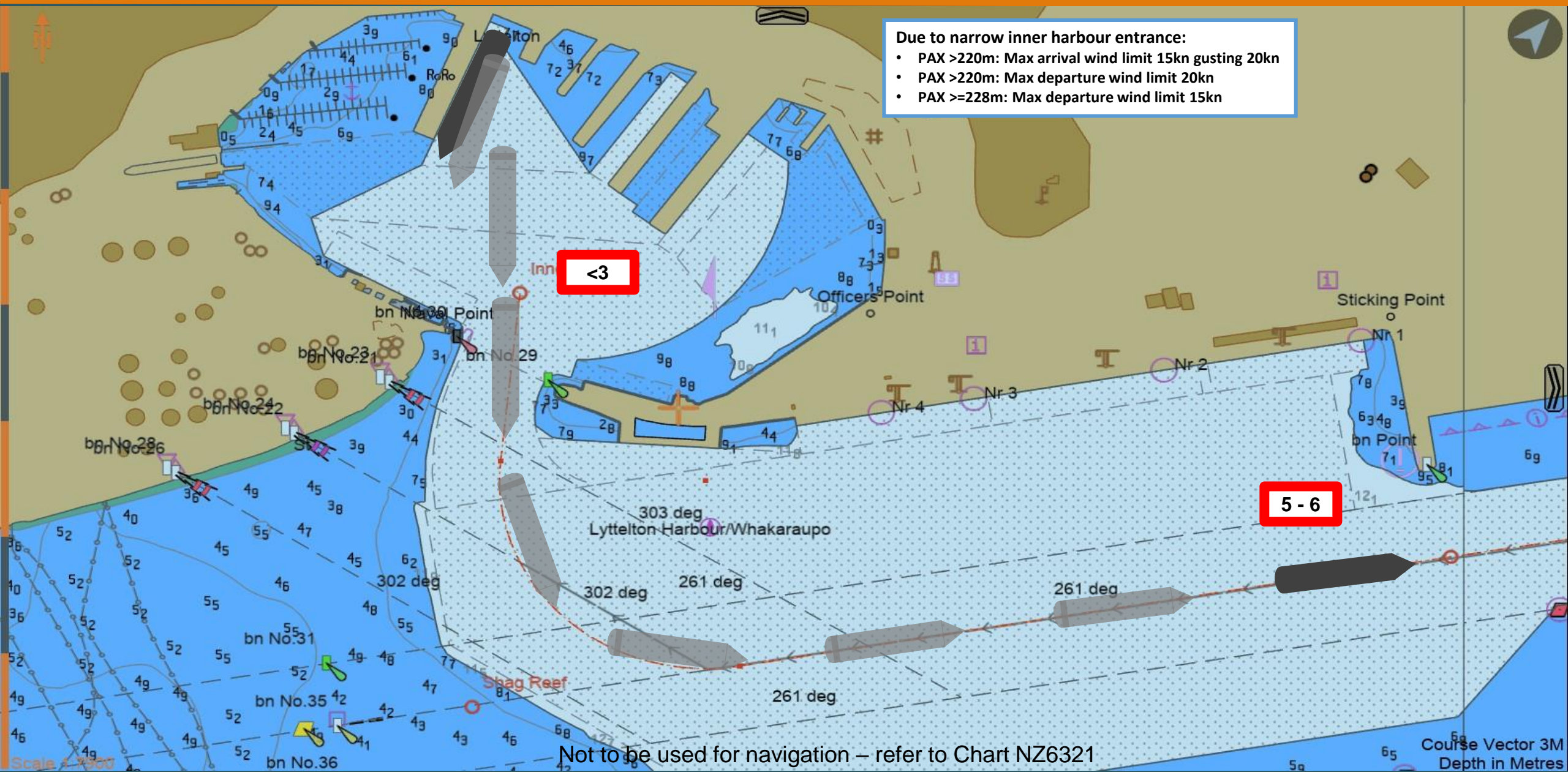
Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres

Departure: 7East SSTQ to Breakwater

Due to narrow inner harbour entrance:

- PAX >220m: Max arrival wind limit 15kn gusting 20kn
- PAX >220m: Max departure wind limit 20kn
- PAX >=228m: Max departure wind limit 15kn



<3

5 - 6

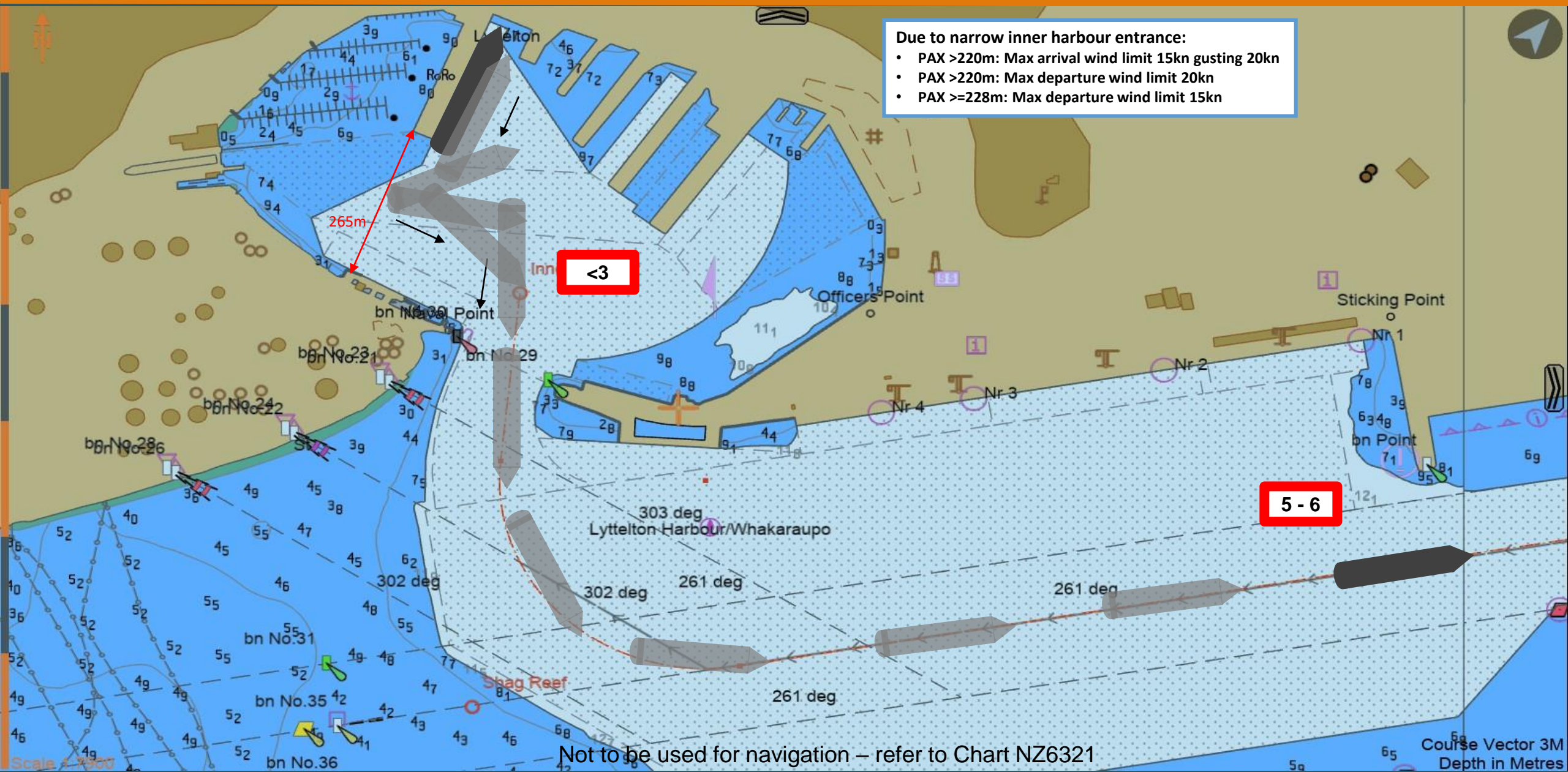
Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres

Departure: 7East PSTQ to Breakwater

Due to narrow inner harbour entrance:

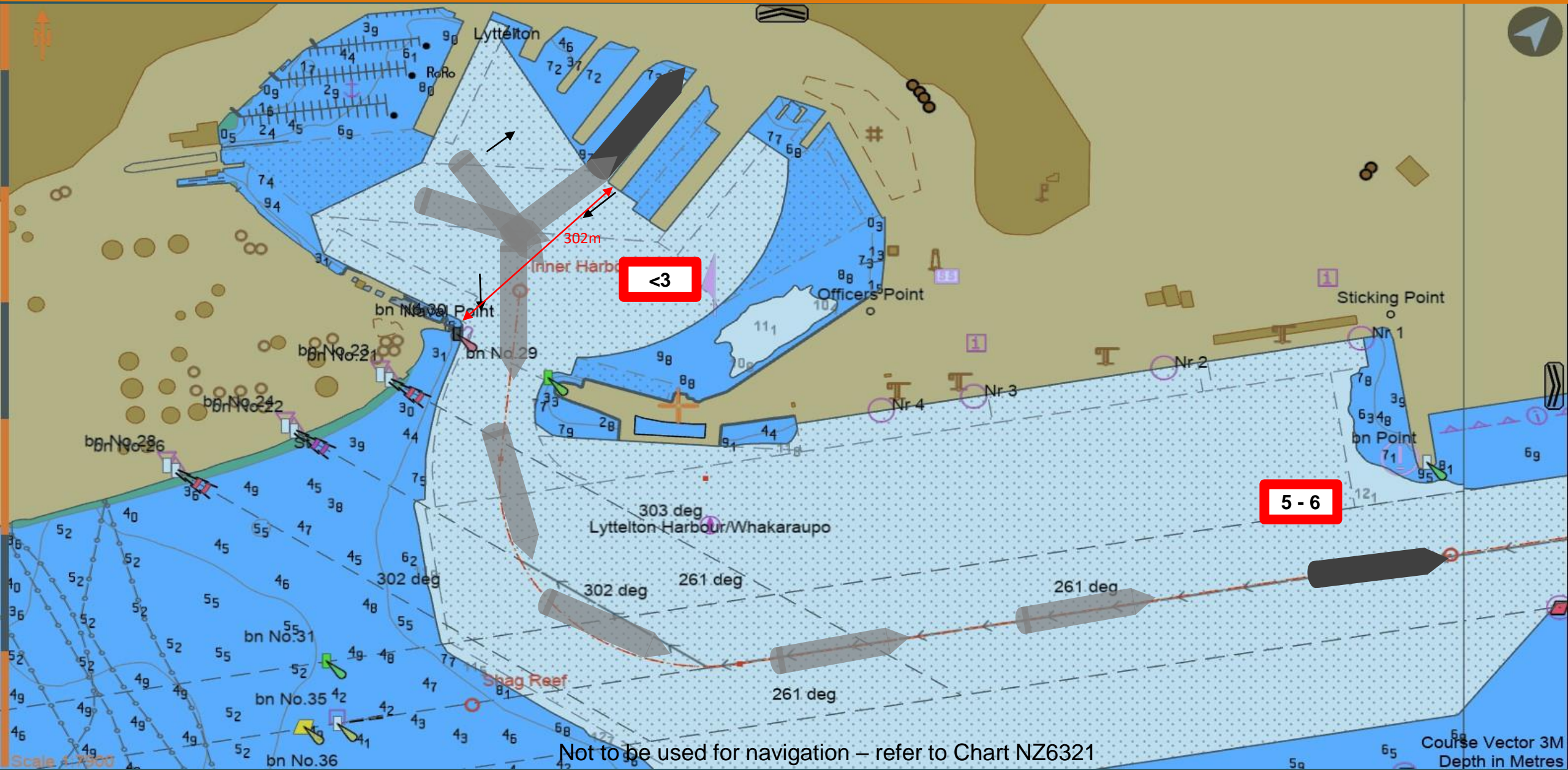
- PAX >220m: Max arrival wind limit 15kn gusting 20kn
- PAX >220m: Max departure wind limit 20kn
- PAX >=228m: Max departure wind limit 15kn



Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres

Departure: 3West SSTQ to Breakwater



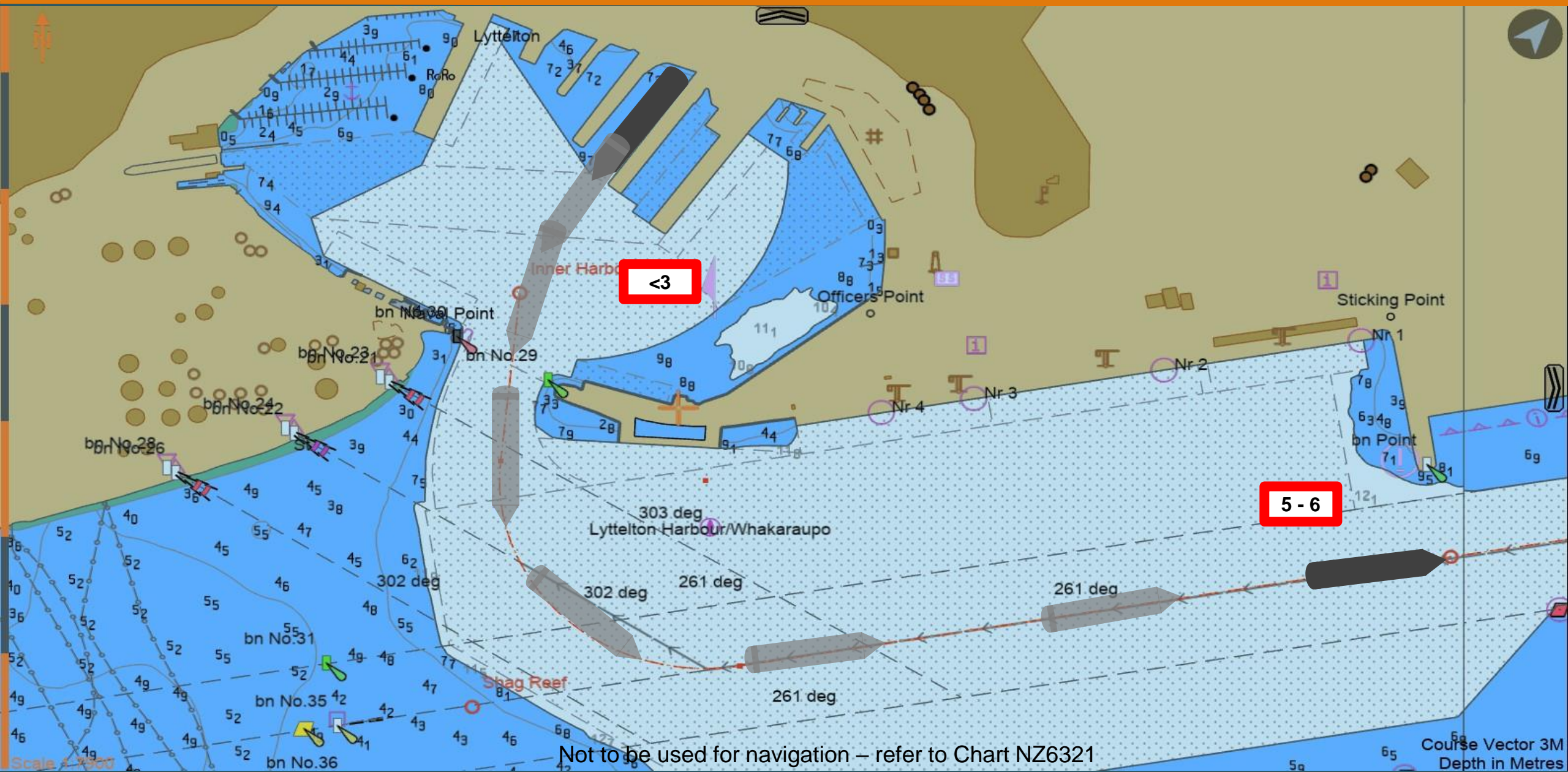
<3

5 - 6

Not to be used for navigation - refer to Chart NZ6321

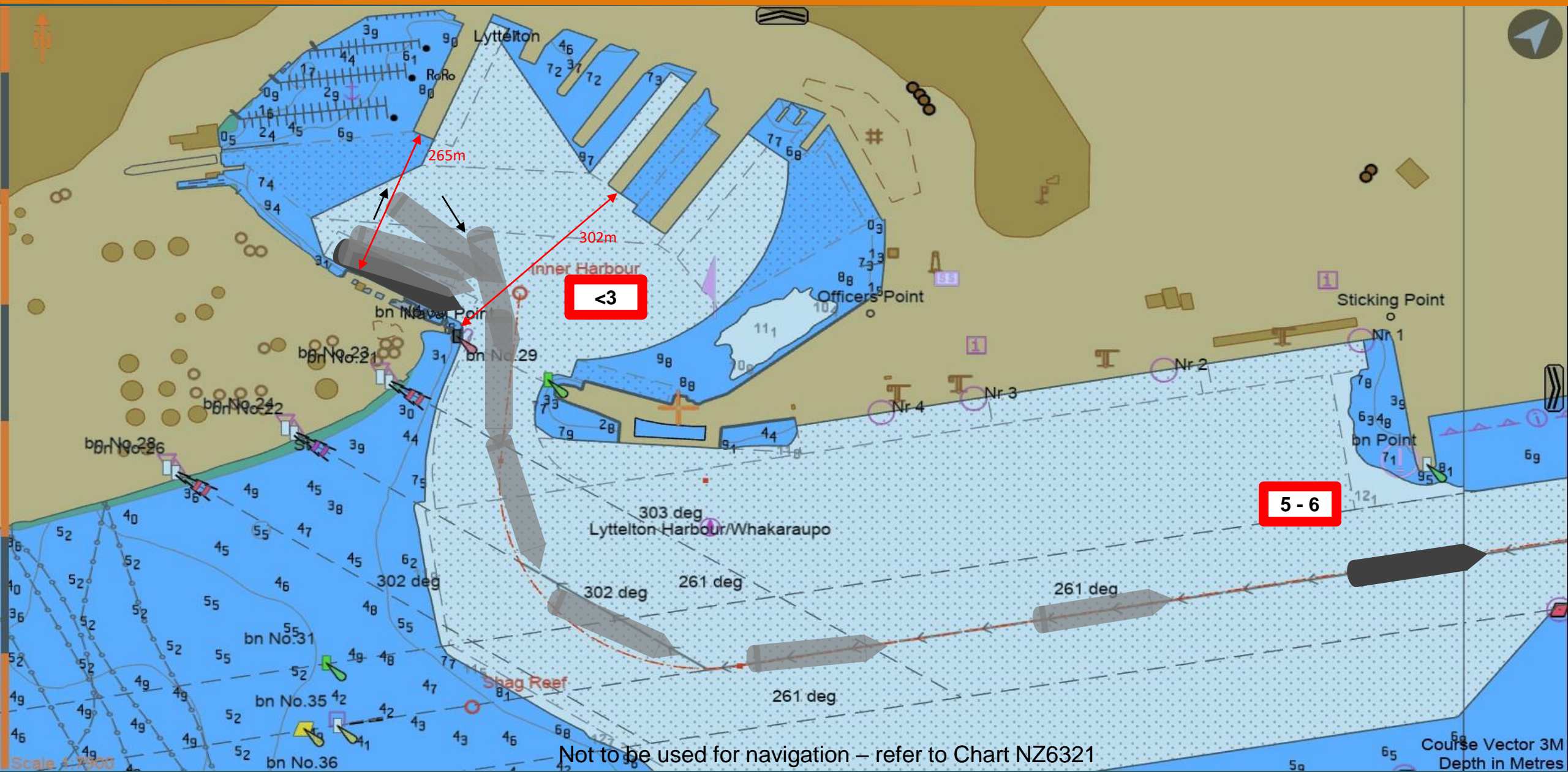
Course Vector 3M
Depth in Metres

Departure: 3West PSTQ to Breakwater



Not to be used for navigation – refer to Chart NZ6321

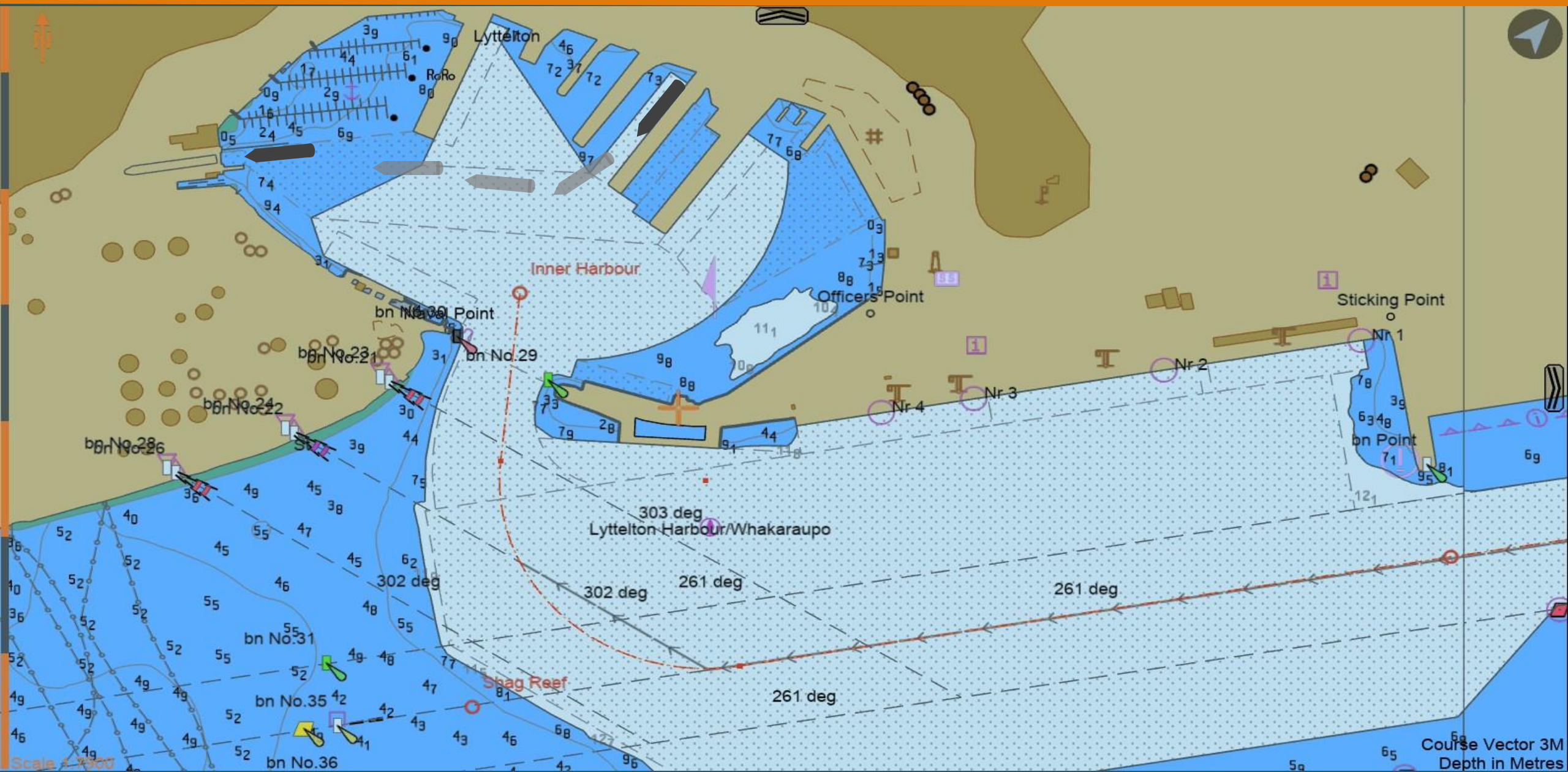
Departure: Oil Berth SSTQ to Breakwater



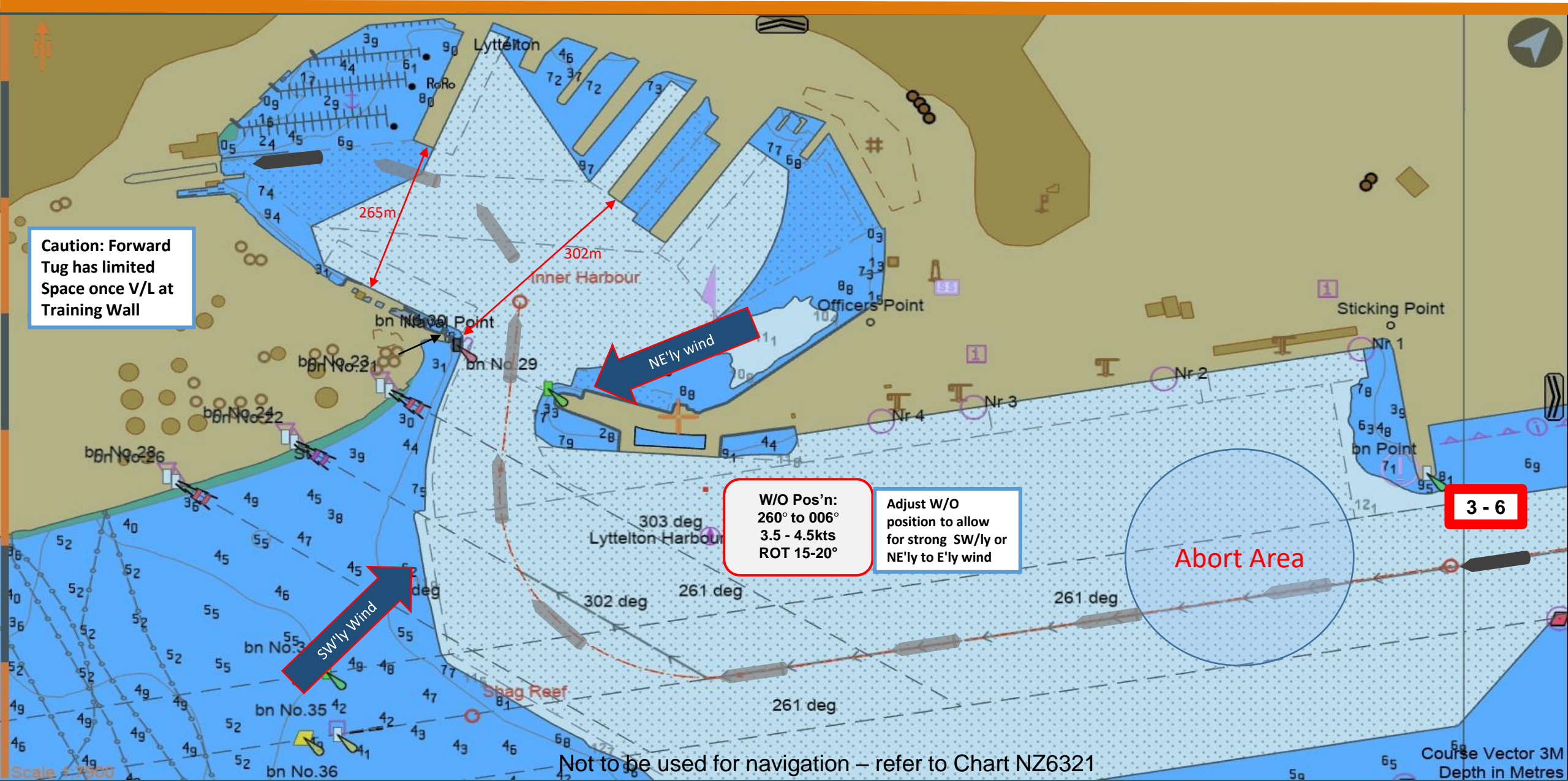
Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres

Shift: Dry Dock to 3West PSTQ



Arrival: Breakwater to Dry Dock



Caution: Forward Tug has limited Space once V/L at Training Wall

W/O Pos'n:
260° to 006°
3.5 - 4.5kts
ROT 15-20°

Adjust W/O position to allow for strong SW'ly or NE'ly to E'ly wind

3 - 6

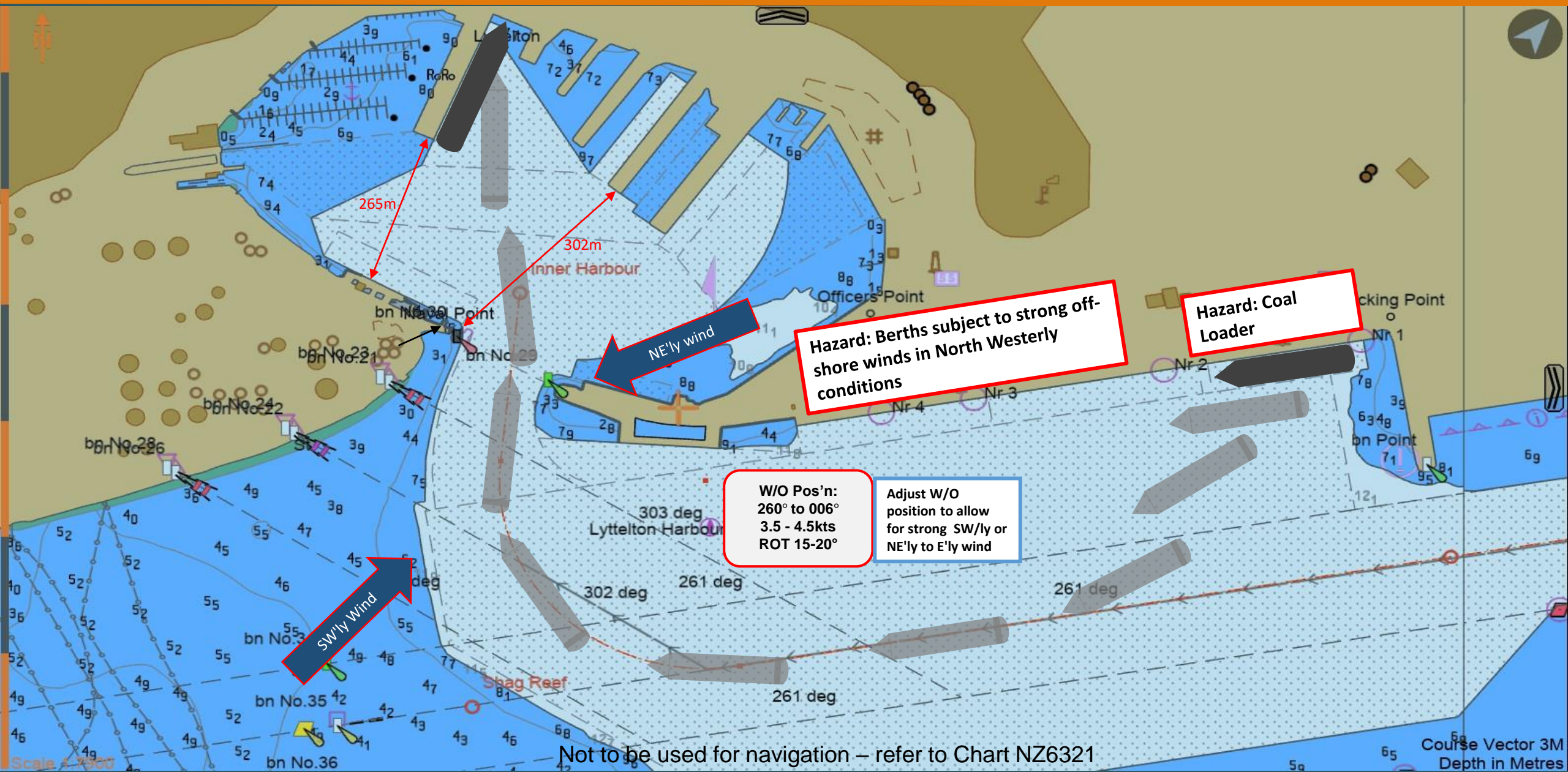
Abort Area

Not to be used for navigation – refer to Chart NZ6321

Scale 1:7500

Course Vector 3M
Depth in Metres

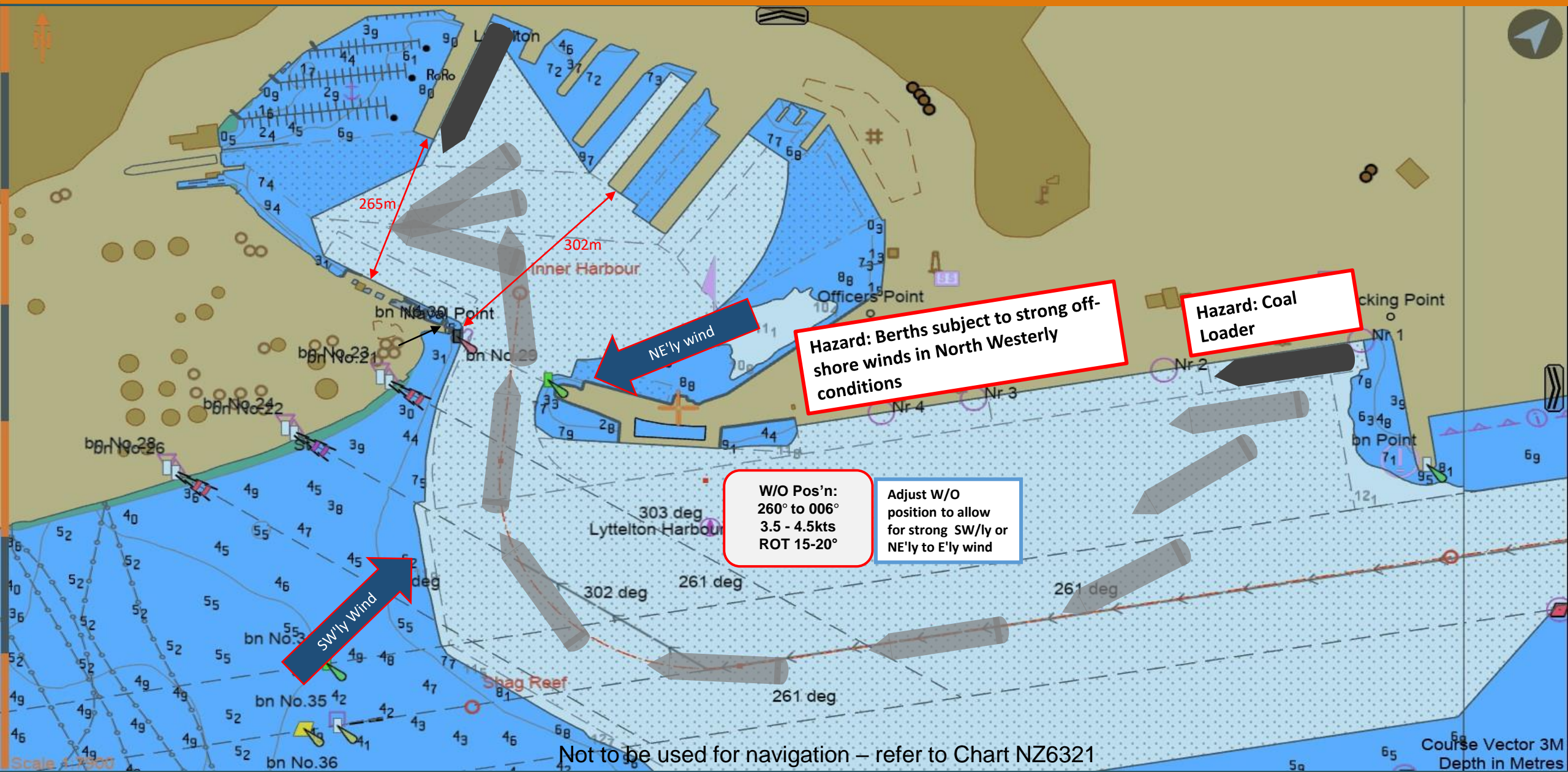
Shift: CQ1 SSTQ to 7E PSTQ



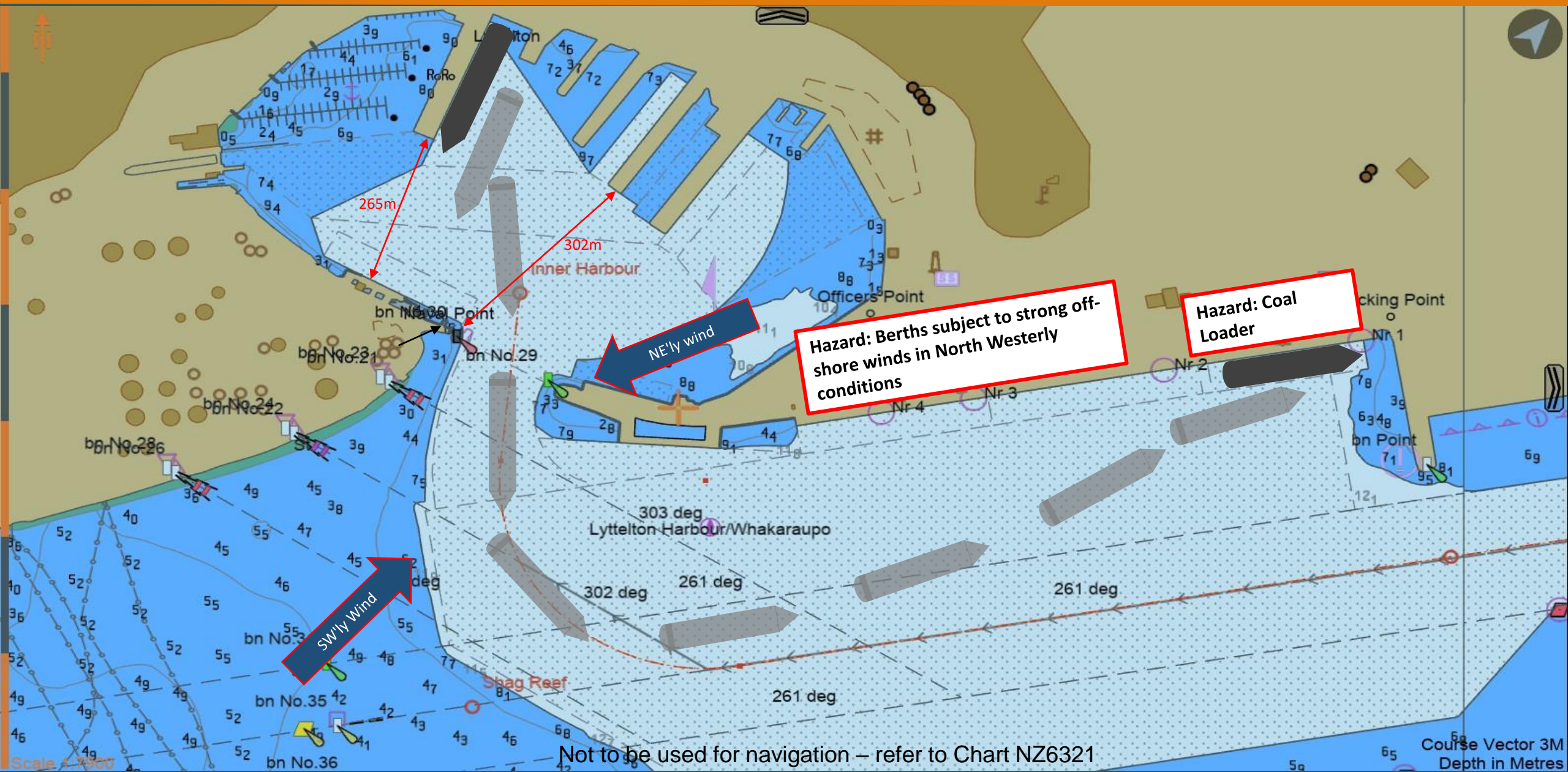
Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres

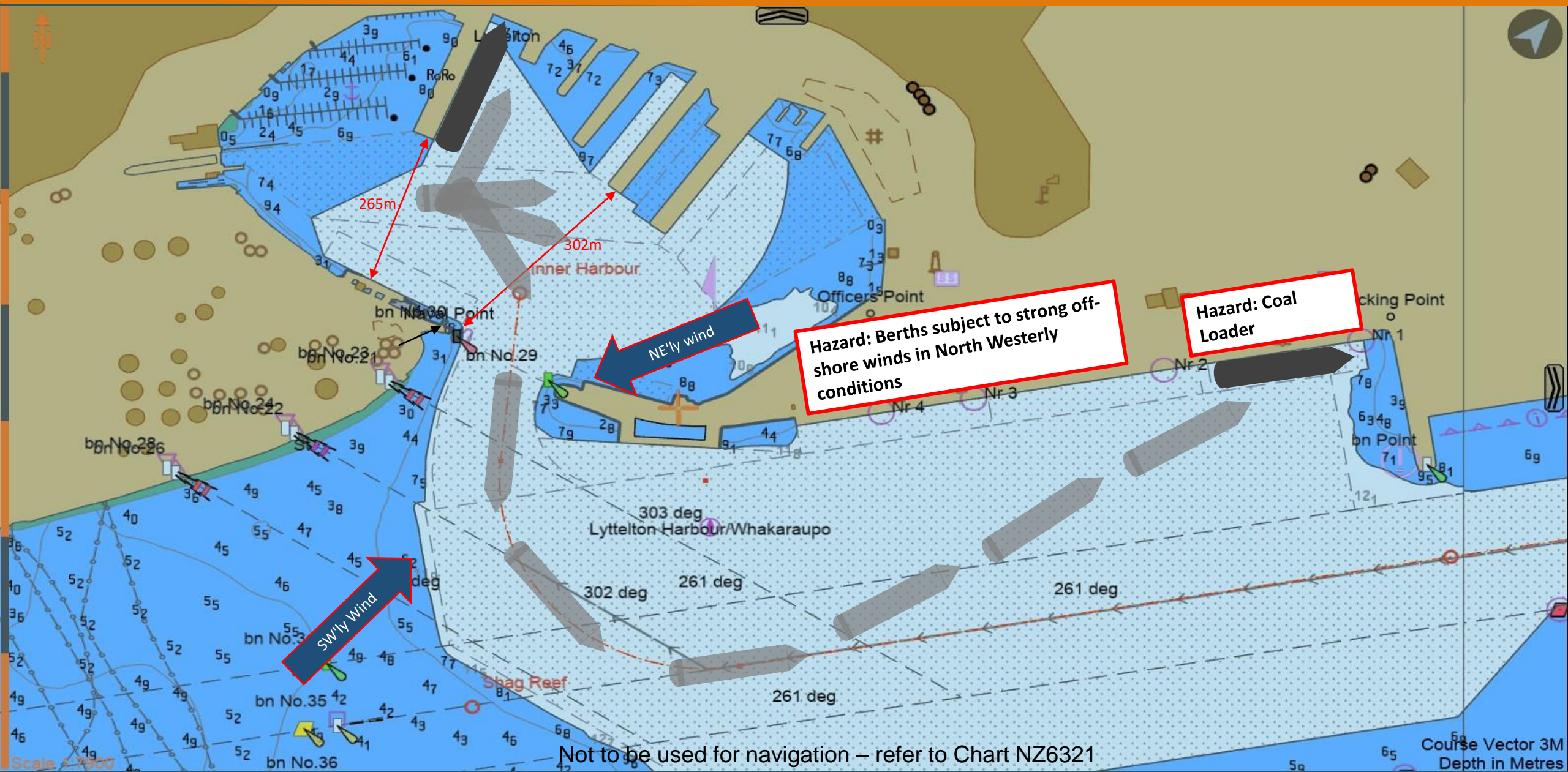
Shift: CQ1 SSTQ to 7E SSTQ



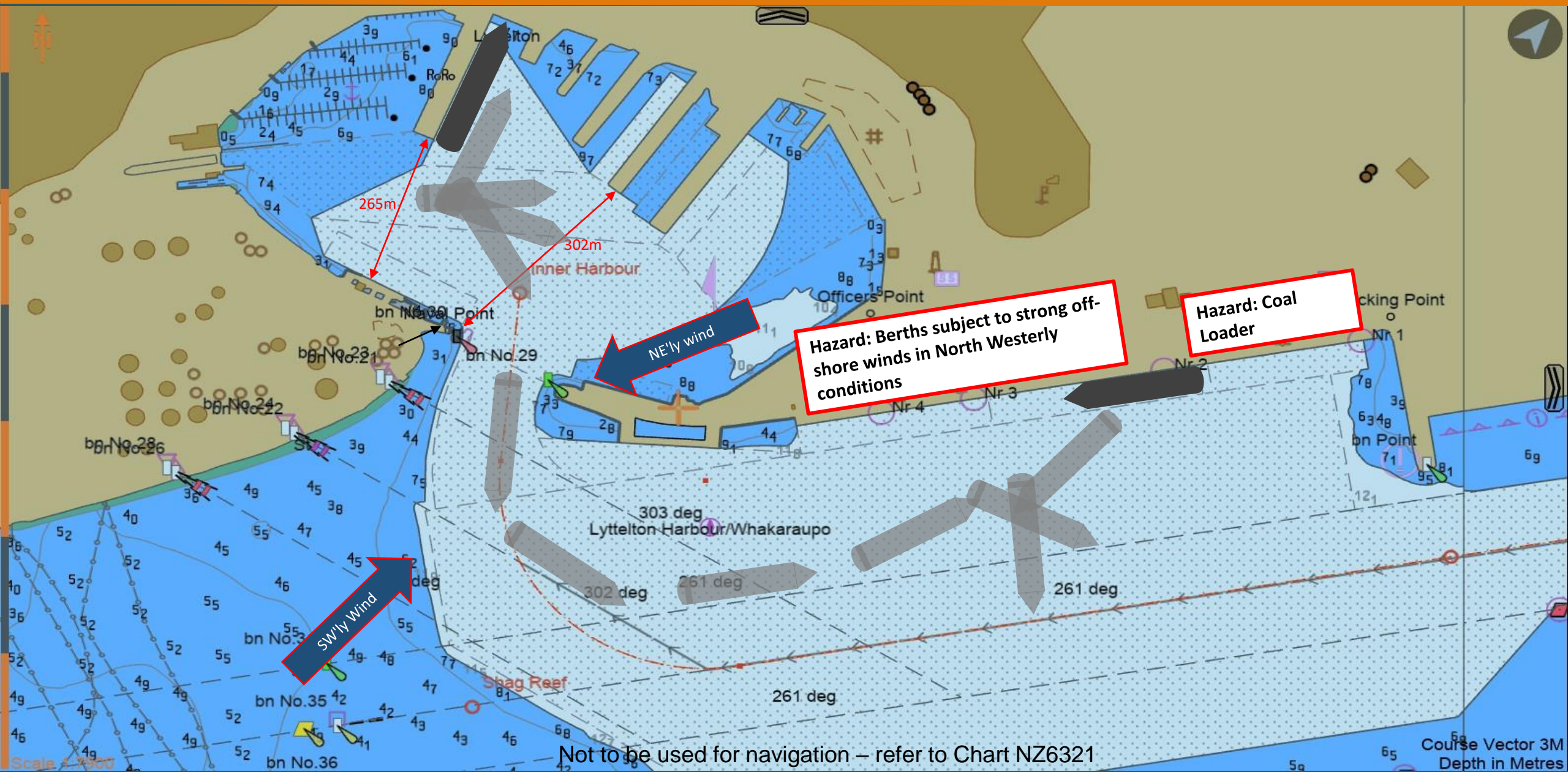
Shift: 7E SSTQ to CQ1 PSTQ



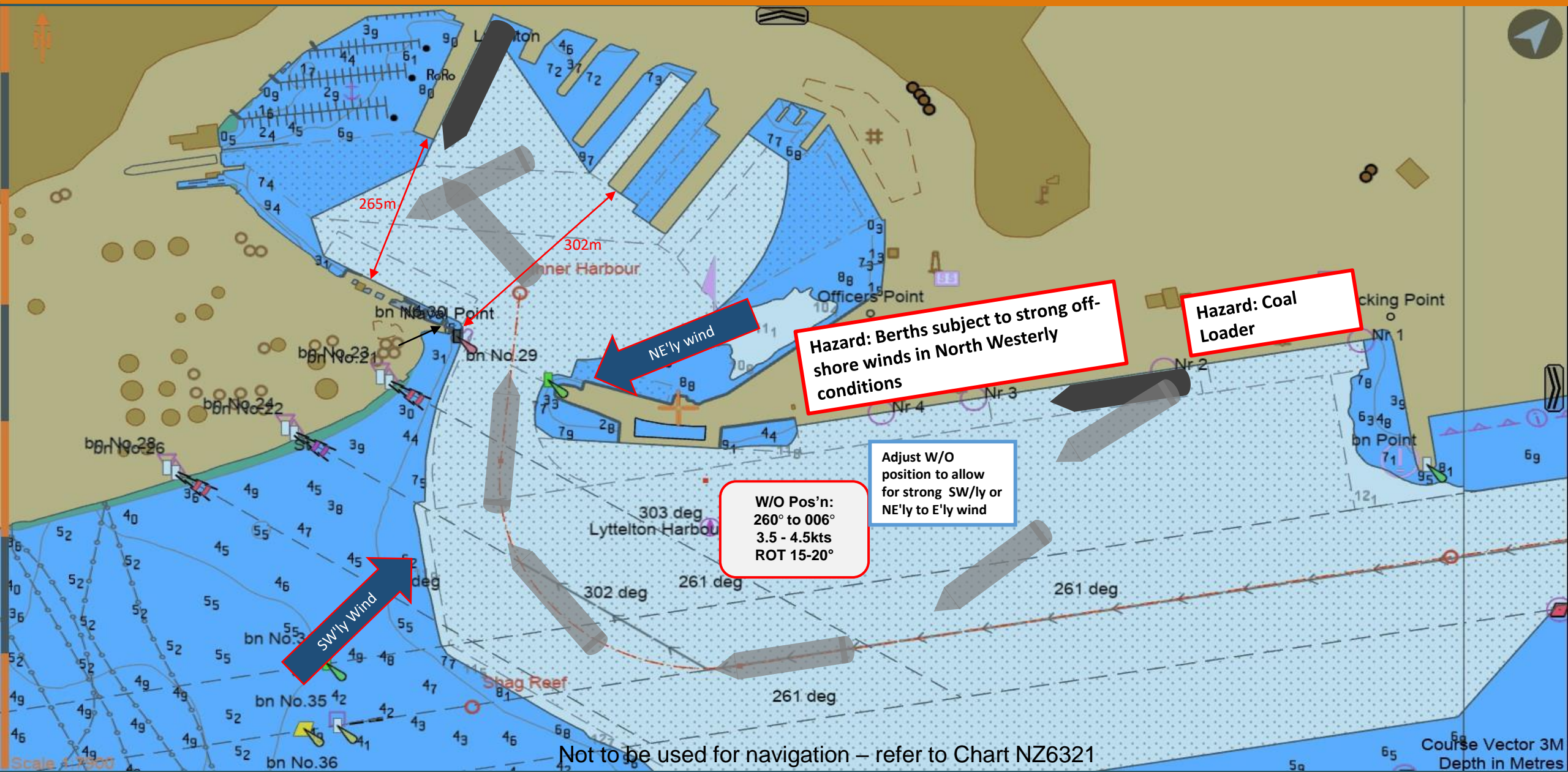
Shift: 7E PSTQ to CQ1 PSTQ



Shift: 7E PSTQ to CQE SSTQ



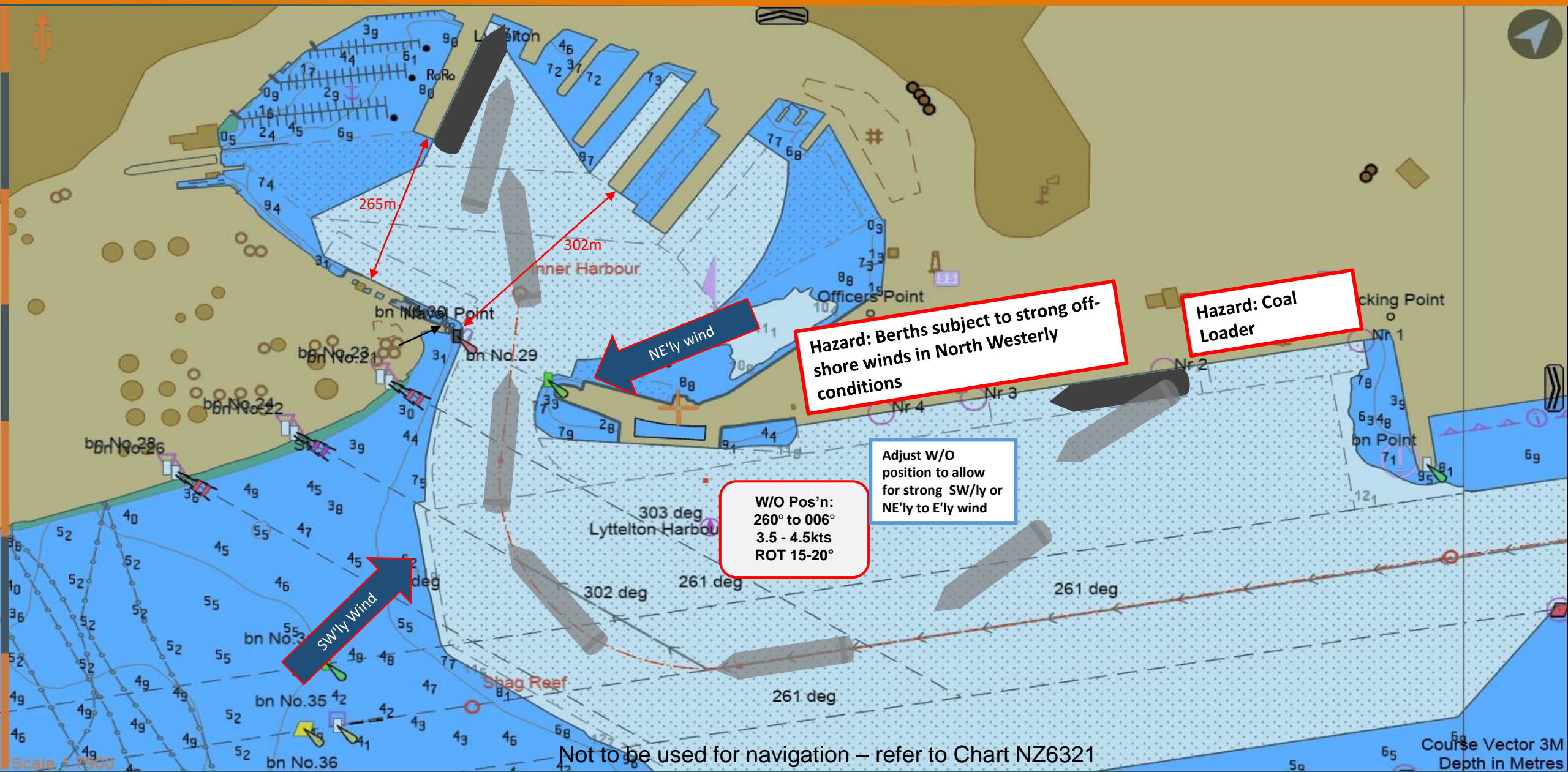
Shift: CQE SSTQ to 7E SSTQ



Not to be used for navigation – refer to Chart NZ6321

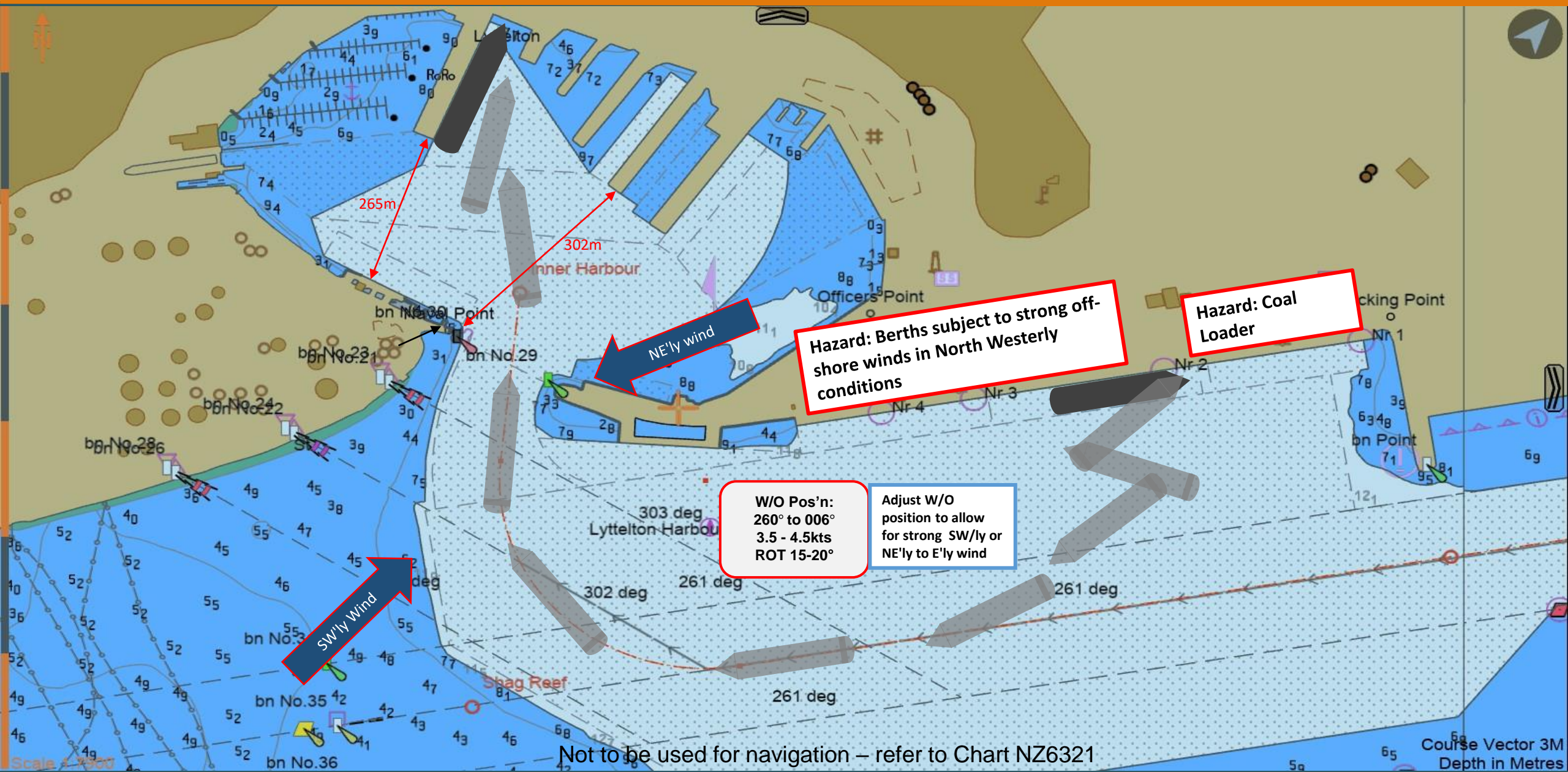
Course Vector 3M
Depth in Metres

Shift: CQE SSTQ to 7E PSTQ



Not to be used for navigation – refer to Chart NZ6321

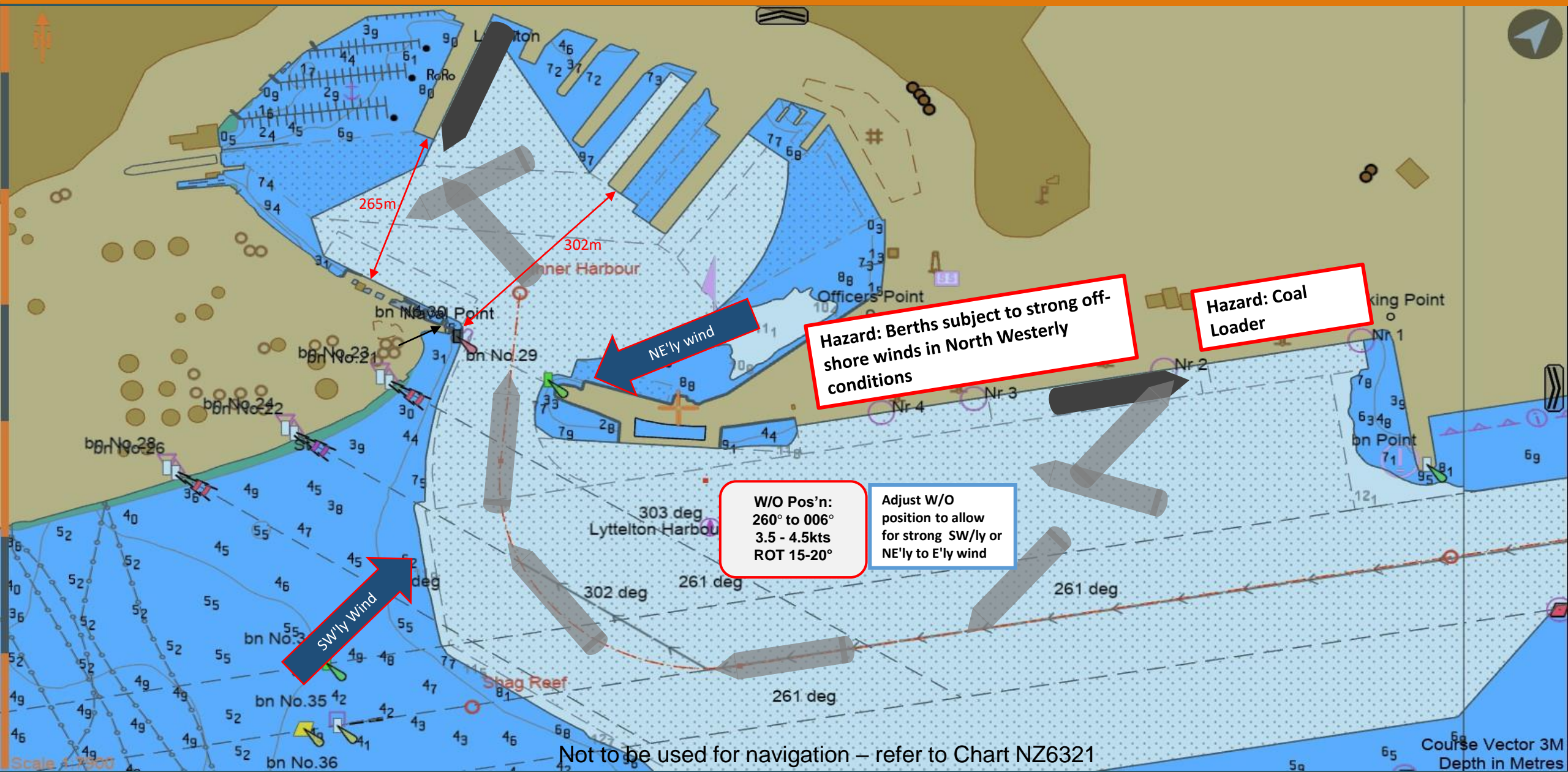
Shift: CQE PSTQ to 7E PSTQ



Not to be used for navigation – refer to Chart NZ6321

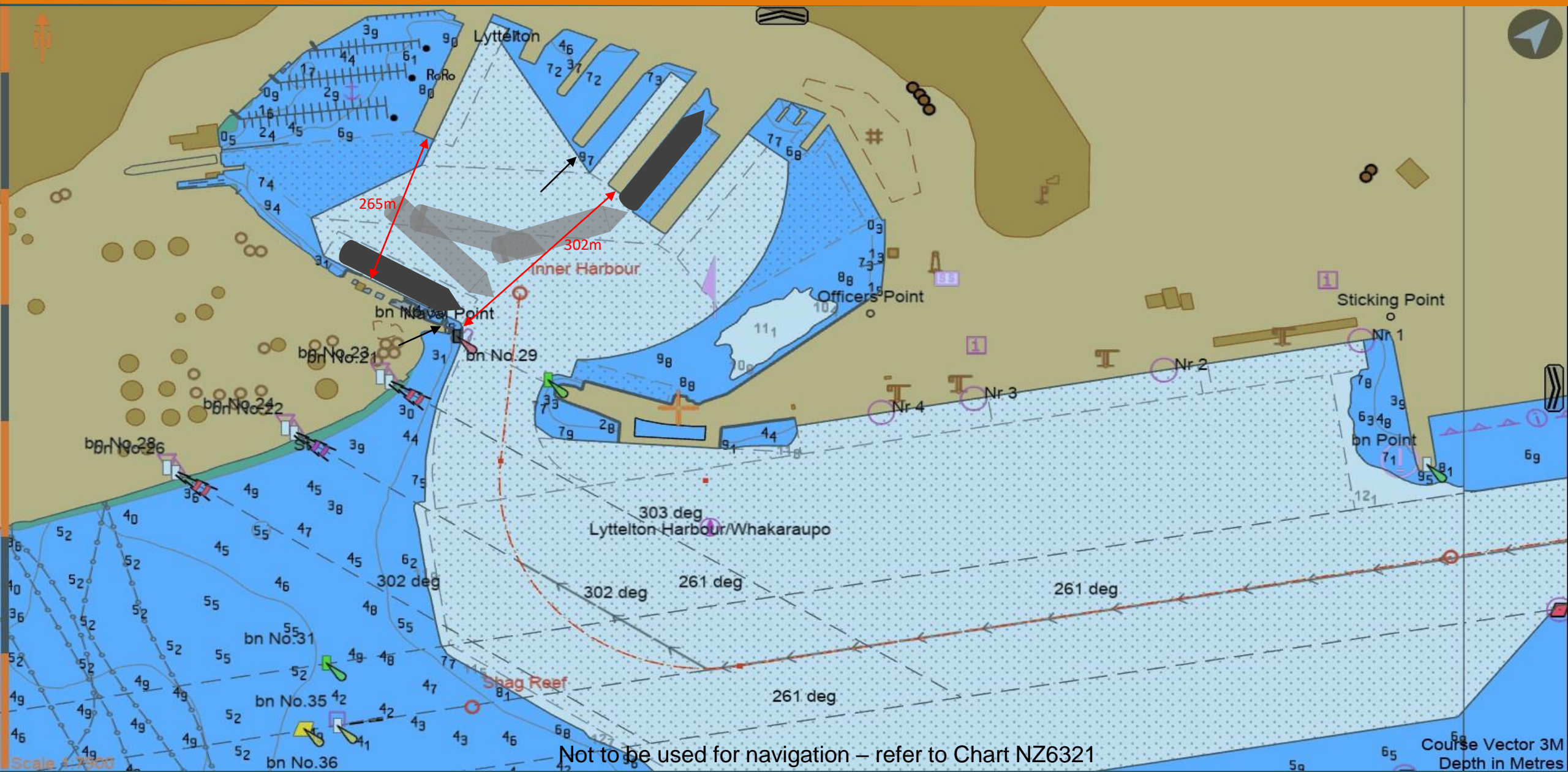
Course Vector 3M
Depth in Metres

Shift: CQE PSTQ to 7E SSTQ

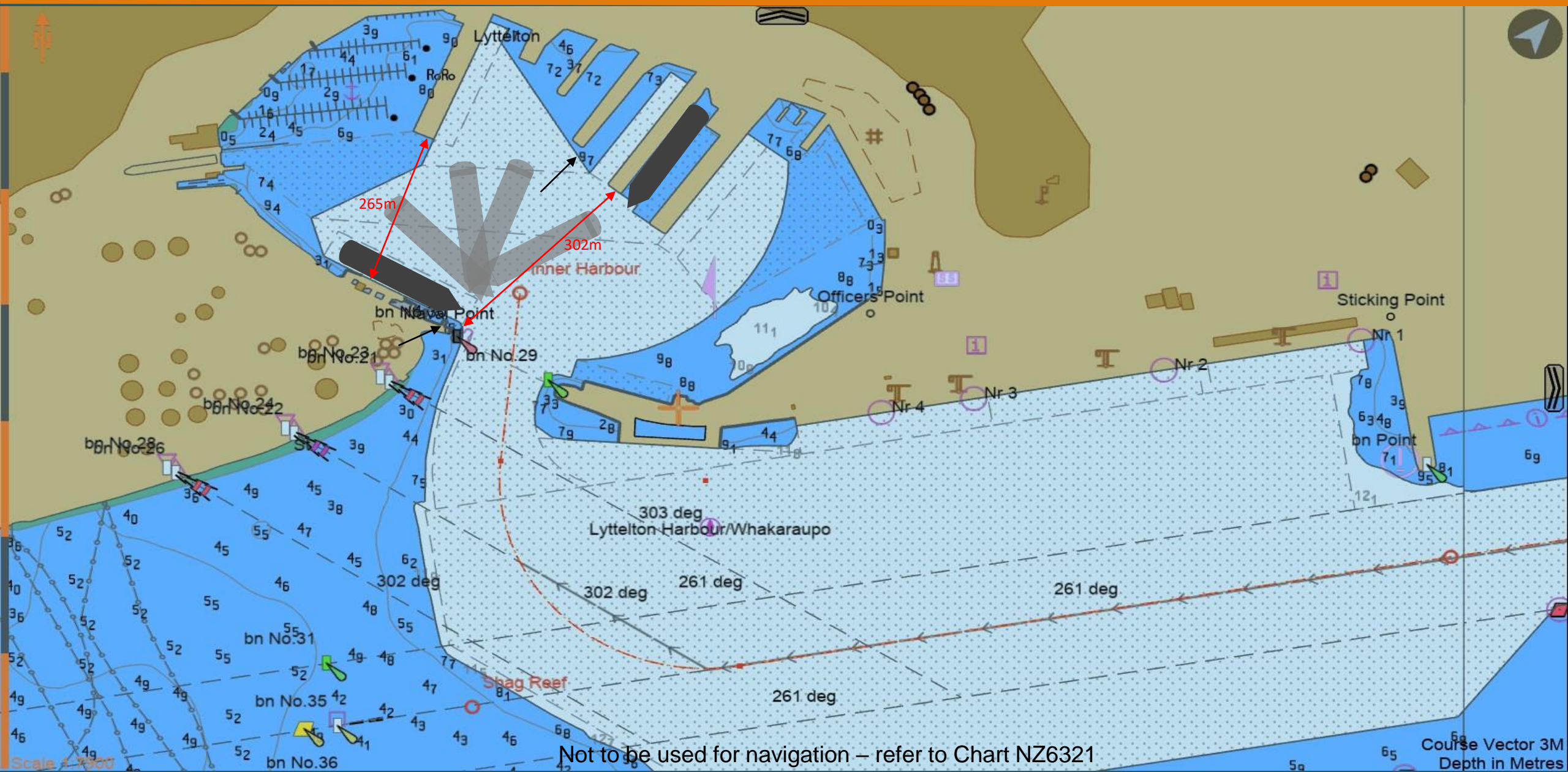


Not to be used for navigation – refer to Chart NZ6321

Shift OB SSTQ to 3E PSTQ



Shift OB SSTQ to 3E SSTQ



Not to be used for navigation – refer to Chart NZ6321

Course Vector 3M
Depth in Metres