

PACIFIC PILOTAGE AUTHORITY

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



NOTICE TO INDUSTRY

Date Issued: 06 June 2016

Notice Number: 06/2016

Subject: Lynn Terminal, Berth #4, 5 & 6

Geographic Area: Vancouver Harbour, BC

Details: Tug requirements for ship berthing/unberthing based on bollard pull rating

Guideline:

1. Port or Starboard side alongside; no bow thruster

Length Overall	Current strength	Wind Speed	Tug Bollard Pull Berthing	Tug Bollard Pull Unberthing
151m - 180m	0 - 1 knots	0 - 20 knots	1 x 20t + 1 x 30t	
		> 20 knots	1 x 20t + 1 x 30t	
	1 - 2 knots	0 - 20 knots	1 x 30t + 1 x 40t	
		>20 knots	1 x 30t + 1 x 40t	
	> 2	Current over 2 knots pilot's discretion		
181m - 210m	0 - 1 knot	0 - 20 Knots	2 x 30t	
		> 20 knots	2 x 30t	1 x 30t + 1 x 40t
	1 - 2 knots	0 - 20 knots	2 x 40t	
		> 20 knots	1 x 40t + 1 x 50t	
	>2 knots	Current over 2 knots pilot's discretion		

2. Port side alongside; 1500 horsepower bow thruster operating at 100% capacity

Length Overall	Current strength	Wind Speed	Tug Bollard Pull Berthing	Tug Bollard Pull Unberthing
181m - 210m	0 - 1 knot	0 - 20 Knots	1 x 30t	1 x 30t
		> 20 knots	1 x 20t + 1 x 30t	2 x 30t
	1 - 2 knots	0 - 20 knots	1 x 20t + 1 x 30t	1 x 30t + 1 x 40t
		> 20 knots	2 x 30t	1 x 30t + 1 x 50t
	>2 knots	Current over 2 knots pilot's discretion		

3. Starboard side alongside; 1500 horsepower bow thruster operating at 100% capacity

Length Overall	Current strength	Wind Speed	Tug Bollard Pull Berthing	Tug Bollard Pull Unberthing
181m - 210m	0 - 1 knot	0 - 20 Knots	1 x 20t + 1 x 30t	1 x 30t
		> 20 knots	1 x 20t + 1 x 40t	1 x 30t
	1 - 2 knots	0 - 20 knots	1 x 30t + 1 x 40t	1 x 20t + 1 x 30t
		> 20 knots	1 x 30t + 1 x 50t	1 x 30t + 1 x 40t
	>2 knots	Current over 2 knots pilot's discretion		

4. Port side alongside; 2500 horsepower bow thruster operating at 100% capacity

Length Overall	Current strength	Wind Speed	Tug Bollard Pull Berthing	Tug Bollard Pull Unberthing
181m - 210m	0 - 1 knot	0 - 20 Knots	1 x 30t	1 x 30t
		> 20 knots	1 x 30t	1 x 30t
	1 - 2 knots	0 - 20 knots	1 x 10t + 1 x 40t	1 x 20t + 1 x 40t
		> 20 knots	1 x 20t + 1 x 40t	1 x 30t + 1 x 50t
	>2 knots	Current over 2 knots pilot's discretion		

5. Starboard side alongside; 2500 horsepower bow thruster operating at 100% capacity

Length Overall	Current strength	Wind Speed	Tug Bollard Pull Berthing	Tug Bollard Pull Unberthing
181m - 210m	0 - 1 knot	0 - 20 Knots	1 x 30t	1 x 30t
		> 20 knots	1 x 40t	1 x 30t
	1 - 2 knots	0 - 20 knots	1 x 30t + 1 x 40t	1 x 10t + 1 x 40t
		> 20 knots	1 x 30t + 1 x 50t	1 x 20t + 1 x 40t
	>2 knots	Current over 2 knots Pilots Discretion		

Notes:

1. All ship berthing tugs must have certification indicating sustained bollard pull rating in metric tonnes.
2. Tug requirements will be reviewed annually by the PPA.
3. In all cases, pilot's discretion will apply, taking into consideration the weather, sea conditions, predicted current, freshet, draft, manoeuvring characteristics, fender capacity at the berth, and mechanical history of the vessel.
4. This berth has a 2 knot restriction and ships will not normally be moved outside this parameter.
5. The tug package allows for limited berthing space.

Please contact the PPA at marineops@ppa.gc.ca if there are any queries or concerns.

Brian Young
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