## Richmond Products Terminal (Kinder Morgan) At-Berth Terminal Plan

1 GENERAL	INFORMATION					
Terminal Contact Name: Jeff Carlton						
	ber: 925-765-3275	Email: i	off carlt	con@kindermorgan.com		
Phone Number: 925-765-3275 Email: jeff_carlton@kindermorgan.com  Berths Included in this Plan:						
Name:	nmond 9			'54.80"N 122° 21'57.60"W]		
1. Rich	imona 9	1.	[37 54	54.80 N 122 21 57.60 WJ		
*The number of berths on a terminal and the spatial positioning of berths are dependent on vessel size;						
thus, the geographic boundary coordinates are approximates only.						
2. STRATEGY DETAILS						
Strategy/strategies used to comply with the requirements for ocean-going vessels visiting each berth:						
Emissions Capture and Control - Barge Based						
	,					
2.1 Strategy	y 1 - Emissions Control Barge (3 <sup>rd</sup> Party Se	rvice Pr	ovider)			
	n and description of all necessary equipme					
Equipment:			Loc	cation:		
1. Pred	conditioning Chamber.		1.	Barge		
2. Clou	ud Generation Chambers.		2.	Barge		
3. Syst	tem ID Fan.		3.	Barge		
4. Sele	ective Catalytic Reduction (SCR).		4.	Barge		
5. Hea	ter (Burner).		5.	Barge		
6. Hea	t Exchanger.		6.	Barge		
7. Exh	aust Intake Bonnet (EIB).		7.	Barge		
8. Arti	culating Arm.		8.	Barge		
9. Plac	cement Tower.		9.	Barge		
Number of vessels expected to use this strategy (applied): 40						
Number of vessels expected to use this strategy (annual): 40						
Berths where equipment will be used: Richmond 9						
Schedule for installing equipment:						
Project:	arian Cantual Bana			oletion Date:		
1. Emi	ssion Control Barge	1.	-	ember 2023 Kinder Morgan will		
				contracting with a 3 <sup>rd</sup> party service		
			•	ARB certification of a barge based		
			CAECS	for liquid bulk vessels.		

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## 3. TERMINAL/PORT BERTHING RESTRICTIONS

4. DIVISION OF ROLES AND RESPONSIBILITIES

Are there any terminal or port specific berthing restrictions? If yes, please describe.

By December 2023 Kinder Morgan will engage a 3rd party Marine Engineering firm to perform layout studies, mooring and passing vessel analysis considering the barge-based technologies currently under development. Target completion date is December 2023.

Division of responsibilities for enacting infrastructure Port:	:				
NA.					
Terminal:					
By December 2023, initiate contracting with 3rd part	y service provider.				
Are there any contractual limitations applicable to the yes, describe.	e terminal relevant to enacting the infrastructure? If				
Kinder Morgan is in the process of accessing and comparing the two currently viable barge emission capture technologies, CAEM and STAX, while also watching the market for others. Service proposals are					
being reviewed in lieu of negotiating and executing service contracts at this time. The expectation is to					
select a provider and initiate contracting by Deceml	per 2023.				
Port approval of responsibilities: N/A – no engagement with the port.					
By signing below, the port's responsible officer confirms that he/she has reviewed the division of					
responsibilities and agrees to them under penalty of perjury.					
Nome	Title				
Name: Port:	Title:				
Signature:	Date:				
oignature.					
5. SIGNATURES					
By signing below, the terminal's responsible officer confirms that he/she has reviewed this plan under					
penalty of perjury and understands this plan is subject to verification by CARB staff.					
Name: Dan Wittenberg	Title: Director of Operations				
Signature: Daniel Wittenhana	Date: 5/20/2022				

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