Appendix F Air Quality and Greenhouse Gas Report

Newport Harbor Dredging (CEQA Projects) - Air Pollutant Emission Inventory - CO

Year 2022 Load Fac Phase/Subphase/Equipment Fac # Equip Equip Hp Day Days Phase 1: Excavate CAD Subphase 1a: Excavate CAD 59 3.73 2 100 0.38 Crew/Work Box Mechanical Dredger 1 2500 10 59 0.29 1.02 16.2 Split Hull Barge 2 350 59 0.38 3.73 6.6 3 59 Tugboat 8 3.73 1 2000 0.31 40.8 Phase 2: Dredge Unsuitable Material and Place in CAD Subphase 2a: Dredge Unsuitable Material and Place in CAD 2500 10 0.29 1.02 Mechanical Dredge 13 5 3.73 25.5 2000 13 0.31 Tugboa 1 Crew/Work Boat 100 5 13 0.38 3.73 3.1 Split Hull Barge 350 3 13 0.38 3.73 Phase 3: Dredge Newport Channel 3 for Interim Cover Subphase 3a: Dredge Newport Channel 3 for Interim Cap Mechanical Dredger 2500 10 0.29 1.02 3.73 2000 5 2 0.31 25.5 Tugboat 1 Crew/Work Boa 100 5 2 0.38 3.73 3.1 Split Hull Barge 2 350 3 2 0.38 3.73 Phase 4: Dredge Non-Federal Channel Material Subphase 4a: Mobilization (Smaller Dredge Equipment) Mechanical Dredger 1400 0.29 1.02 1 2000 15 0.31 3.73 Tugboat Crew/Work Boat 2 100 5 15 0.38 3.73 Split Hull Barge 350 15 0.38 3.73 Subphase 4b: Dredging Window Crew/Work Box 2 100 5 25 0.38 3.73 Mechanical Dredge 1400 10 25 0.29 1.02 Split Hull Barge 2 350 3 25 0.38 3.73 Tugboat 1 2000 5 25 0.31 3.73 Phase 4c: Demobilization Crew/Work Boa 100 5 15 0.38 3.73 Mechanical Dredger 1 1400 2 15 0.29 1.02 Split Hull Barge 350 15 0.38 3.73 2 15 3.73 Tugboat 2000 0.31 Phase 5: Dredge Channel 3 and Place Final CAP Subphase 5a: Mobilization (Smaller Dredge Equipment) Mechanical Dredge 1400 15 0.29 1.02 5 15 3.73 2000 0.31 Tugboat 1 Crew/Work Boa 100 5 15 0.38 3.73 350 15 0.38 3.73 Subphase 5b: Dredge Channel 3 and Place in CAD for Final Cap Mechanical Dredge 1400 10 17 0.29 1.02 3.73 Tugboat 1 2000 5 17 0.31 Crew/Work Boa 100 5 17 0.38 3.73 Split Hull Barge 2 350 3 17 0.38 3.73 Subphase 5c: Dredge Remaining Material in Newport Channel 3 1400 18 0.29 1.02 Mechanical Dredger Tugboat 1 2000 5 18 0.31 3.73 Crew/Work Boat 100 5 18 0.38 3.73 Split Hull Barge 350 18 0.38 3.73 Phase 5d: Demobilization 3.73 Crew/Work Bo 2 100 5 15 0.38 1400 15 0.29 1.02 Mechanical Dredge Split Hull Barge 2 350 2 15 0.38 3.73 2000 2 15 0.31 3.73 Tugboat 1 CO Daily Average Emission (lbs/workday) 51.4 66.7 51.4 Year 2022: Total CO CO Annual Emission (tons/year)

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Newport Harbor Dredging (CEQA Projects) - Air Pollutant Emission Inventory - CO2

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Crew/Work Boa	t 2	100	5	59	0.38	486.00							407.2												
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Phase 5: Dredge Channel 3 and Place Final CAP																									
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Newport Harbor Dredging (CEQA Projects) - Air Pollutant Emission Inventory - NOx

NOx Daily Average Emission (lbs/workday)

NOx Annual Emission (tons/year)

Year 2022 Load Fac Phase/Subphase/Equipment Fac # Equip Equip Hp Day Days Phase 1: Excavate CAD Subphase 1a: Excavate CAD 59 5.50 2 100 0.38 Crew/Work Box Mechanical Dredger 1 2500 10 59 0.29 2.39 38.1 Split Hull Barge 2 350 59 0.38 5.50 9.7 3 59 Tugboat 8 5.50 60.2 1 2000 0.31 Phase 2: Dredge Unsuitable Material and Place in CAD Subphase 2a: Dredge Unsuitable Material and Place in CAD 2500 10 0.29 2.39 Mechanical Dredge 13 5 37.6 2000 13 5.50 Tugboa 1 0.31 Crew/Work Boat 100 5 13 0.38 5.50 4.6 Split Hull Barge 2 350 3 13 0.38 5.50 Phase 3: Dredge Newport Channel 3 for Interim Cover Subphase 3a: Dredge Newport Channel 3 for Interim Cap Mechanical Dredger 2500 10 0.29 2.39 5.50 2000 5 2 0.31 37.6 Tugboat 1 Crew/Work Boa 100 5 2 0.38 5.50 4.6 Split Hull Barge 2 350 3 2 0.38 5.50 Phase 4: Dredge Non-Federal Channel Material Subphase 4a: Mobilization (Smaller Dredge Equipment) Mechanical Dredger 1400 0.29 1 2000 15 0.31 5.50 Tugboat Crew/Work Boat 2 100 5 15 0.38 5 50 Split Hull Barge 350 15 0.38 5.50 Subphase 4b: Dredging Window Crew/Work Box 2 100 5 25 0.38 5.50 Mechanical Dredge 1400 10 25 0.29 2.39 Split Hull Barge 2 350 3 25 0.38 5.50 Tugboat 1 2000 5 25 0.31 5.50 Phase 4c: Demobilization Crew/Work Boa 100 5 15 0.38 5.50 Mechanical Dredger 1 1400 2 15 0.29 2.39 Split Hull Barge 350 15 0.38 5.50 2 15 5.50 Tugboat 2000 0.31 Phase 5: Dredge Channel 3 and Place Final CAP Subphase 5a: Mobilization (Smaller Dredge Equipment) Mechanical Dredge 1400 15 0.29 2.39 5 15 5.50 2000 0.31 Tugboat 1 Crew/Work Boa 100 5 15 0.38 5.50 350 15 0.38 5.50 Subphase 5b: Dredge Channel 3 and Place in CAD for Final Cap Mechanical Dredge 1400 10 17 0.29 5.50 2.39 Tugboat 1 2000 5 17 0.31 Crew/Work Boa 100 5 17 0.38 5.50 Split Hull Barge 2 350 3 17 0.38 5.50 Subphase 5c: Dredge Remaining Material in Newport Channel 3 1400 18 0.29 Mechanical Dredger Tugboat 1 2000 5 18 0.31 2.39 Crew/Work Boat 100 5 18 0.38 5.50 Split Hull Barge 350 18 0.38 5.50 Phase 5d: Demobilization 5 50 Crew/Work Bo 2 100 5 15 0.38 1400 15 0.29 2.39 Mechanical Dredge 5.50 Split Hull Barge 2 350 2 15 0.38 2000 2 15 0.31 5.50 Tugboat 1

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Newport Harbor Dredging (CEQA Projects) - Air Pollutant Emission Inventory - PM10

Year 2022 Load Phase/Subphase/Equipment # Equip Equip Hp Fac Day Days Phase 1: Excavate CAD Subphase 1a: Excavate CAD 59 2 100 0.38 0.20 Crew/Work Box -5 Mechanical Dredger 1 2500 10 59 0.29 0.06 1.0 Split Hull Barge 2 350 59 0.38 0.20 0.4 3 59 Tugboat 8 2.2 1 2000 0.31 0.20 Phase 2: Dredge Unsuitable Material and Place in CAD Subphase 2a: Dredge Unsuitable Material and Place in CAD 2500 10 0.29 0.06 Mechanical Dredge 13 5 2000 13 0.20 Tugboa 1 0.31 1.4 Crew/Work Boat 100 5 13 0.38 0.20 Split Hull Barge 2 350 3 13 0.38 0.20 Phase 3: Dredge Newport Channel 3 for Interim Cover Subphase 3a: Dredge Newport Channel 3 for Interim Cap Mechanical Dredger 2500 10 0.29 0.06 2000 5 2 0.31 0.20 Tugboat 1 1.4 Crew/Work Boa 100 5 2 0.38 0.20 0.2 Split Hull Barge 2 350 3 2 0.38 0.20 Phase 4: Dredge Non-Federal Channel Material Subphase 4a: Mobilization (Smaller Dredge Equipment) Mechanical Dredger 1400 0.29 0.06 1 2000 15 0.31 0.20 Tugboat Crew/Work Boat 2 100 5 15 0.38 0.20 Split Hull Barge 350 15 0.38 0.20 Subphase 4b: Dredging Window Crew/Work Box 2 100 5 25 0.38 0.20 Mechanical Dredge 1400 10 25 0.29 0.06 Split Hull Barge 2 350 3 25 0.38 0.20 Tugboat 1 2000 5 25 0.31 0.20 Phase 4c: Demobilization Crew/Work Boa 100 5 15 0.38 0.20 Mechanical Dredger 1 1400 2 15 0.29 0.06 Split Hull Barge 350 15 0.38 0.20 2 15 Tugboat 2000 0.31 0.20 Phase 5: Dredge Channel 3 and Place Final CAP Subphase 5a: Mobilization (Smaller Dredge Equipment) Mechanical Dredge 1400 15 0.29 0.06 5 15 0.20 2000 0.31 Tugboat 1 Crew/Work Boa 100 5 15 0.38 0.20 350 15 0.38 0.20 Subphase 5b: Dredge Channel 3 and Place in CAD for Final Cap Mechanical Dredger 1400 10 17 0.29 0.06 0.20 Tugboat 1 2000 5 17 0.31 Crew/Work Boa 100 5 17 0.38 0.20 Split Hull Barge 2 350 3 17 0.38 0.20 Subphase 5c: Dredge Remaining Material in Newport Channel 3 1400 10 18 0.29 0.06 Mechanical Dredger Tugboat 1 2000 5 18 0.31 0.20 Crew/Work Boat 100 5 18 0.38 0.20 Split Hull Barge 350 18 0.38 0.20 Phase 5d: Demobilization Crew/Work Bo 2 100 5 15 0.38 0.20 1400 15 0.29 0.06 Mechanical Dredge Split Hull Barge 2 350 2 15 0.38 0.20 2000 2 15 0.31 0.20 Tugboat 1 PM10 Daily Average Emission (lbs/workday) 3.7 Year 2022: Total PM10 PM10 Annual Emission (tons/year) 0.13 tons

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Newport Harbor Dredging (CEQA Projects) - Air Pollutant Emission Inventory - PM25

Year 2022 Load PM25 Phase/Subphase/Equipment # Equip Equip Hp Fac Fac Day Days Phase 1: Excavate CAD Subphase 1a: Excavate CAD 59 2 100 0.38 Crew/Work Box -5 0.18 Mechanical Dredger 1 2500 10 59 0.29 0.06 0.9 Split Hull Barge 2 350 59 0.38 0.18 0.3 3 59 Tugboat 8 1 2000 0.31 0.18 2.0 Phase 2: Dredge Unsuitable Material and Place in CAD Subphase 2a: Dredge Unsuitable Material and Place in CAD 2500 10 0.29 0.06 Mechanical Dredge 13 5 2000 13 0.18 1.2 Tugboa 1 0.31 Crew/Work Boat 100 5 13 0.38 0.18 Split Hull Barge 2 350 3 13 0.38 0.18 Phase 3: Dredge Newport Channel 3 for Interim Cover Subphase 3a: Dredge Newport Channel 3 for Interim Cap Mechanical Dredger 2500 10 0.29 0.06 2000 5 2 0.31 0.18 Tugboat 1 1.2 Crew/Work Boa 100 5 2 0.38 0.18 0.2 Split Hull Barge 2 350 3 2 0.38 0.18 Phase 4: Dredge Non-Federal Channel Material Subphase 4a: Mobilization (Smaller Dredge Equipment) Mechanical Dredger 1400 0.29 0.06 1 2000 15 0.31 0.18 Tugboat Crew/Work Boat 2 100 5 15 0.38 0.18 Split Hull Barge 350 15 0.38 0.18 Subphase 4b: Dredging Window Crew/Work Box 2 100 5 25 0.38 0.18 Mechanical Dredge 1400 10 25 0.29 0.06 Split Hull Barge 2 350 3 25 0.38 0.18 Tugboat 1 2000 5 25 0.31 0.18 Phase 4c: Demobilization Crew/Work Boa 100 5 15 0.38 0.18 Mechanical Dredger 1 1400 2 15 0.29 0.06 Split Hull Barge 350 15 0.38 0.18 2 15 Tugboat 2000 0.31 0.18 Phase 5: Dredge Channel 3 and Place Final CAP Subphase 5a: Mobilization (Smaller Dredge Equipment) Mechanical Dredge 1400 15 0.29 0.06 5 15 2000 0.31 0.18 Tugboat 1 Crew/Work Boa 100 5 15 0.38 0.18 350 15 0.38 0.18 Subphase 5b: Dredge Channel 3 and Place in CAD for Final Cap Mechanical Dredger 1400 10 17 0.29 0.06 Tugboat 1 2000 5 17 0.31 0.18 Crew/Work Boa 100 5 17 0.38 0.18 Split Hull Barge 2 350 3 17 0.38 0.18 Subphase 5c: Dredge Remaining Material in Newport Channel 3 1400 10 18 0.29 0.06 Mechanical Dredger Tugboat 1 2000 5 18 0.31 0.18 Crew/Work Boat 100 5 18 0.38 0.18 Split Hull Barge 350 18 0.38 0.18 Phase 5d: Demobilization Crew/Work Bo 2 100 5 15 0.38 0.18 1400 15 0.29 0.06 Mechanical Dredge Split Hull Barge 2 350 2 15 0.38 0.18 2000 2 15 0.31 0.18 Tugboat 1 PM25 Daily Average Emission (lbs/workday) 3.3 2.6 Year 2022: Total PM25 PM25 Annual Emission (tons/year) 0.12 tons

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2000

Tugboat

ROG Daily Average Emission (lbs/workday)

ROG Annual Emission (tons/year)

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0.31

0.31

Year 2022: Total ROG

Newport Harbor Dredging (CEQA Projects) - Air Pollutant Emission Inventory - ROG Year 2022 Load ROG Phase/Subphase/Equipment # Equip Equip Hp Fac Fac Day Days Phase 1: Excavate CAD Subphase 1a: Excavate CAD 59 2 100 0.38 0.31 Crew/Work Box -5 Mechanical Dredger 1 2500 10 59 0.29 0.20 3.2 Split Hull Barge 2 350 59 0.38 0.31 0.5 3 59 Tugboat 8 1 2000 0.31 0.31 3.3 Phase 2: Dredge Unsuitable Material and Place in CAD Subphase 2a: Dredge Unsuitable Material and Place in CAD 2500 10 0.29 0.20 Mechanical Dredge 13 5 2.1 2000 13 0.31 Tugboa 1 0.31 Crew/Work Boat 100 5 13 0.38 0.31 0.3 Split Hull Barge 2 350 3 13 0.38 0.31 Phase 3: Dredge Newport Channel 3 for Interim Cover Subphase 3a: Dredge Newport Channel 3 for Interim Cap Mechanical Dredger 2500 10 0.29 0.20 2000 5 2 0.31 0.31 2.1 Tugboat 1 Crew/Work Boa 100 5 2 0.38 0.31 0.3 Split Hull Barge 2 350 3 2 0.38 0.31 Phase 4: Dredge Non-Federal Channel Material Subphase 4a: Mobilization (Smaller Dredge Equipment) Mechanical Dredger 1400 0.29 0.20 1 2000 15 0.31 0.31 Tugboat Crew/Work Boat 2 100 5 15 0.38 0.31 Split Hull Barge 350 15 0.38 0.31 Subphase 4b: Dredging Window Crew/Work Box 2 100 5 25 0.38 0.31 Mechanical Dredge 1400 10 25 0.29 0.20 Split Hull Barge 2 350 3 25 0.38 0.31 Tugboat 1 2000 5 25 0.31 0.31 Phase 4c: Demobilization Crew/Work Boa 100 5 15 0.38 0.31 Mechanical Dredger 1 1400 2 15 0.29 0.20 Split Hull Barge 350 15 0.38 0.31 2 15 Tugboat 2000 0.31 0.31 Phase 5: Dredge Channel 3 and Place Final CAP Subphase 5a: Mobilization (Smaller Dredge Equipment) Mechanical Dredge 1400 15 0.29 0.20 5 15 2000 0.31 0.31 Tugboat 1 Crew/Work Boa 100 5 15 0.38 0.31 350 15 0.38 0.31 Subphase 5b: Dredge Channel 3 and Place in CAD for Final Cap Mechanical Dredger 1400 10 17 0.29 0.20 0.20 Tugboat 1 2000 5 17 0.31 Crew/Work Boa 100 5 17 0.38 0.31 Split Hull Barge 2 350 3 17 0.38 0.31 Subphase 5c: Dredge Remaining Material in Newport Channel 3 1400 10 18 0.29 0.20 Mechanical Dredger Tugboat 1 2000 5 18 0.31 0.20 Crew/Work Boat 100 5 18 0.38 0.31 Split Hull Barge 350 18 0.38 0.31 Phase 5d: Demobilization Crew/Work Bo 2 100 5 15 0.38 0.31 1400 15 0.29 0.20 Mechanical Dredge Split Hull Barge 2 350 2 15 0.38 0.31

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Newport Harbor Dredging (CEQA Projects) - Air Pollutant Emission Inventory - SO2

SO2 Daily Average Emission (lbs/workday)

SO2 Annual Emission (tons/year)

Year 2022 Load Fac Phase/Subphase/Equipment Fac # Equip Equip Hp Day Days Phase 1: Excavate CAD Subphase 1a: Excavate CAD 59 2 100 0.38 Crew/Work Box 0.00 Mechanical Dredger 1 2500 10 59 0.29 0.01 0.1 Split Hull Barge 2 350 59 0.38 0.00 0.0 3 59 Tugboat 8 1 2000 0.31 0.00 0.0 Phase 2: Dredge Unsuitable Material and Place in CAD Subphase 2a: Dredge Unsuitable Material and Place in CAD 2500 10 0.29 0.01 Mechanical Dredge 13 5 2000 13 0.0 Tugboa 0.31 0.00 Crew/Work Boat 100 5 13 0.38 0.00 Split Hull Barge 350 3 13 0.38 0.00 Phase 3: Dredge Newport Channel 3 for Interim Cover Subphase 3a: Dredge Newport Channel 3 for Interim Cap Mechanical Dredger 2500 10 0.29 0.01 2000 5 2 0.31 0.00 Tugboat 1 0.0 Crew/Work Boa 100 5 2 0.38 0.00 0.0 Split Hull Barge 2 350 3 2 0.38 0.00 Phase 4: Dredge Non-Federal Channel Material Subphase 4a: Mobilization (Smaller Dredge Equipment) Mechanical Dredger 1400 0.29 0.01 1 2000 15 0.31 0.00 Tugboat Crew/Work Boat 2 100 5 15 0.38 0.00 Split Hull Barge 350 15 0.38 0.00 Subphase 4b: Dredging Window Crew/Work Box 2 100 5 25 0.38 0.00 Mechanical Dredge 1400 10 25 0.29 0.01 Split Hull Barge 2 350 3 25 0.38 0.00 Tugboat 1 2000 5 25 0.31 0.00 Phase 4c: Demobilization Crew/Work Boa 100 5 15 0.38 0.00 Mechanical Dredger 1 1400 2 15 0.29 0.01 Split Hull Barge 350 15 0.38 0.00 2 15 Tugboat 2000 0.31 0.00 Phase 5: Dredge Channel 3 and Place Final CAP Subphase 5a: Mobilization (Smaller Dredge Equipment) Mechanical Dredge 1400 15 0.29 0.01 5 15 2000 0.31 0.00 Tugboat 1 Crew/Work Boa 100 5 15 0.38 0.00 350 15 0.38 0.00 Subphase 5b: Dredge Channel 3 and Place in CAD for Final Cap Mechanical Dredger 1400 10 17 0.29 0.01 0.00 Tugboat 1 2000 5 17 0.31 Crew/Work Boa 100 5 17 0.38 0.00 Split Hull Barge 2 350 3 17 0.38 0.00 Subphase 5c: Dredge Remaining Material in Newport Channel 3 1400 10 18 0.29 0.01 Mechanical Dredger Tugboat 1 2000 5 18 0.31 0.00 Crew/Work Boat 100 5 18 0.38 0.00 Split Hull Barge 350 18 0.38 0.00 Phase 5d: Demobilization Crew/Work Bo 2 100 5 15 0.38 0.00 1400 15 0.29 0.01 Mechanical Dredge Split Hull Barge 2 350 2 15 0.38 0.00 2000 2 15 0.31 0.00 Tugboat 1

Year 2022: Total SO2

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Newport Harbor Dredging (NEPA Projects) - Air Pollutant Emission Inventory - CO

	1	Equip	Hours/	Work	Load	CO	Nov		2020		Dec		2020	1	Jan	
Phase/Subphase/Equipment	# Equip	Equip Hp	Dav	Davs	Fac	Fac	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd
Phase 1: Entrance Channel Dredging and Rock Revetment	# Equip	пр	Day	Days				1								
Subphase 1a - Mobilization (Larger Dredge Equipment) Crew/Work Boat	2	100	5	15	0.38	3.73	-			3.1			-		<u> </u>	
		2500	2		0.38	1.00	-			3.1					<u> </u>	
Mechanical Dredger		350	3	15	0.29		-			6.6					<u> </u>	
Split Hull Barge		2000	2	15 15	0.38	3.73 3.73				10.2					<u> </u>	
Tugboat	1	2000		15	0.51	3.73				10.2	T				<u> </u>	
Subphase 1b: Dredge Entrance Channel Mechanical Dredger	1	2500	10	16	0.29	1.00							16.0			
Mechanical Dredger Tugboat		2000	5	16 16	0.29	3.73	-				-		25.5			
Crew/work Boat		100			0.31		-				-		3.1			
Split Hull Barge		350	5	16 16	0.38	3.73 3.73	-		-				6.6			
		350	-3	10	0.38	3.73	-				-		0.0	<u> </u>		
Subphase 1c: Rock Revetment Repairs Dozer	1	215	10	60	0.40	2.37	-						4.5			
	1	170	10	60	0.40	3.56	-						3.9		-	
Crane Haul Truck	1	485	10	60	0.29	1.41	-						5.7			
Front Loader		485	10	60	0.36	6.77	-						2.6		-	
Subphase 1d: Demobilization	1	40	10	- 00	0.30	0.77	-				-		2.0	T		I
Supprase 1d: Demobilization Crew/work Boat	2	100	5	15	0.38	3.73						 			<u> </u>	
Mechanical Dredger		2500	2	15	0.38	1.00	-					+			-	
Split Hull Barge		350	12	15	0.29	3.73						 			<u> </u>	
Tugboat		2000	2	15	0.31	3.73	-					+			<u> </u>	
	1	2000	<u> </u>	- 10	0.01	0.70	-					+			<u> </u>	
Phase 2: Dredge Suitable Material in Federal Channels Subphase 2a: Mobilization												-			<u> </u>	
, ·	2	100	5	15	0.38	3.73	-					-			<u> </u>	
Crew/work boat		2500	2	15 15	0.38	1.00	-					-			<u> </u>	
Mechanical Dredger		350	3	15	0.29	3.73					<u> </u>				<u> </u>	
Split Hull Barge		2000	2		0.38	3.73						+			<u> </u>	
Tugboat Phase 2b: Dredge Suitable Material in Federal Channels	1	2000		15	0.31	3.73	-		-		-	+	+	1	 	
	2	100	5	157	0.38	3.73	-		-			1		1	<u> </u>	
Crew/work boat Mechanical Dredger		2500	10	157	0.38	1.00	-		-			+		1	-	
		350	3	157	0.29	3.73	-		1		1	+		1	 	
Split Hull Barge						3.73	-		-		1			1	-	
Tugboat	1	2000	8	157	0.31	3./3	-		-		-	1	1		 	
CO Daily Average Emission (lbs/workday)		l								23.1			67.8			
CO Annual Emission (tons/year)							Voor 202	0: Total CO		23.1		0.00	67.8 3 tons		Voor 202	1: Total CO
CO Annuai Emission (tons/year)							rear 202	o. Total CC	,			0.83	tons		rear 202	ı. Total CC

202		Feb		2021		Mar		2021		Nov		2021		Dec		2021		Jan		2022	2	Feb	
3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd
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	10	6.1					42.8						23.1			66.6							
			0.74	tons														Year 202	2: Total C	0			5.23

2022	,	Mar		2022	2	Apr		2022		May		2022	!	Jun		2022	!	Jul		2022	<u>. </u>
3rd	4th	1st	2nd	3rd	4th	Apr 1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
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Newport Harbor Dredging (NEPA Projects) - Air Pollutant Emission Inventory - CO2

Year 2020

	1	Eauin	Hours/	Work	Load	CO2	Nov		202	20	Dec		202	0	Jan
Phase/Subphase/Equipment	# Equip	Equip Hp	Day	Davs	Fac	Fac	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st
Phase 1: Entrance Channel Dredging and Rock Revetment	" Equip	пр	Duy	Duys				1		-		-		-	
8 8							+	1							
Subphase 1a - Mobilization (Larger Dredge Equipment) Crew/Work Boat	2	100	5	15	0.38	468.00	-	-		392.1				+	-
Mechanical Dredge		2500	2	15	0.38	472.05	1			1509.3					-
Split Hull Barge		350	3	15	0.29	468.00	-	-		823.5				+	+
Spiit Hull Barge Tugboai		2000	2	15	0.38	468.00	-	+		1279.6				+	
Subphase 1b: Dredge Entrance Channel	1	2000		13	0.51	400.00	-	-		12/9.0	T		-	+	-
Mechanical Dredge	1	2500	10	16	0.29	472.05	1	_	+		1		7,546.4		
Tugboa		2000	5	16	0.29	468.00	1				-		3,199.0		_
Crew/work Boat		100	5	16	0.31	468.00	1	_	-		1		392.1		
Split Hull Barge		350	3	16	0.38	468.00	1		 		1		823.5		
Subphase 1c: Rock Revetment Repairs		330		10	0.56	400.00	1		+		1		023.3	T	
Dozei	1	215	10	60	0.40	474.79	1	_	+		1		900.3		
Crane	1	170	10	60	0.40	474.79	1		+		1		515.9		
Cranc Haul Truck	1	485	10	60	0.29	474.59	1		+		-		1928.6		_
Front Loader		48	10	60	0.36	524.70	1		+		1		1928.0		
Subphase 1d: Demobilization	1	- 40	10	00	0.50	324.70	1	+	+		1		199.9	Т	
Crew/work Boat	2	100	5	15	0.38	468.00	1	+	 		1			+	
Mechanical Dredger		2500	2	15	0.29	472.05	1	+			1	+		+	_
Split Hull Barge		350	12	15	0.29	468.00	1	+	+		1			+	
Tugboat		2000	2	15	0.31	468.00	1		 		1				_
	1	2000		-10	0.01	100100		+	+		+	+		+	+
Phase 2: Dredge Suitable Material in Federal Channels							-		-		-			+	+
Subphase 2a: Mobilization Crew/work boar	2	100	5	15	0.38	468.00	1		1		-			-	
							1		-		-			-	_
Mechanical Dredger		2500 350	3	15 15	0.29	472.05 468.00	1		-		-				_
Split Hull Barge				_		468.00	1		-		-				_
Tugboat	1	2000	2	15	0.31	468.00	-	_	-			_		+	
Phase 2b: Dredge Suitable Material in Federal Channels	\vdash	100		157	0.20	460 00	1		+		-	+	+		+
Crew/work boat		100	5	157	0.38	468.00 472.05	1		+	+	-	+	+	+	+
Mechanical Dredger		2500	10	157	0.29		1		-					+	_
Split Hull Barg		350	3	157	0.38	468.00	1		+	+	—		-	-	_
Tugboad	1	2000	8	157	0.31	468.00	1		1		<u> </u>				_
COAD 3 A F 1 1 (II / II)							1			400 4 7			15 505 (
CO2 Daily Average Emission (lbs/workday)										4004.5			15,505.8	5	V 200
CO2 Annual Emission (tons/year)							Year 20	20: Total C	UZ				.9 tons		Year 202

162.3 MT

	202	1	Feb		202	21	Mar		2021		Nov		202	1	Dec		202	1	Jan		202	22	Feb
2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st
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		3,	544.5					6475.0						4004.5			13880.4						
Total C	.02				8 tons														Year 20	22: Total	COZ		

119.5 MT

	2022	2	Mar		2022	!	lAnr		2022		May		2022		Jun		2022	<u> </u>	Jul		2022	
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							754	6.4														
							823	3.5														
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1089.	5 tons																				-	

988.3 MT

Newport Harbor Dredging (NEPA Projects) - Air Pollutant Emission Inventory - NOx

r						2020 NO	Is:		202	0	In.		303	10	1.	
DI (C.I.I. /E	l	Equip	Hours/	Work	Load	NOx	Nov	2 1	202		Dec	<u> </u>	202		Jan	
Phase/Subphase/Equipment	# Equip	Hp	Day	Days	Fac	Fac	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd
Phase 1: Entrance Channel Dredging and Rock Revetment																
Subphase 1a - Mobilization (Larger Dredge Equipment)																
Crew/Work Boa		100	5	15	0.38	5.50				4.6						
Mechanical Dredge	1	2500	2	15	0.29	2.36				7.5						
Split Hull Barg	2	350	3	15	0.38	5.50				9.7						
Tugboa	1	2000	2	15	0.31	5.50				15.0						
Subphase 1b: Dredge Entrance Channel																
Mechanical Dredge		2500	10	16	0.29	2.36							37.7			
Tugboa		2000	5	16	0.31	5.50							37.6			
Crew/work Boa		100	5	16	0.38	5.50							4.6			
Split Hull Barg	2	350	3	16	0.38	5.50							9.7			
Subphase 1c: Rock Revetment Repairs																
Doze		215	10	60	0.40	6.50							12.3			
Cran	1	170	10	60	0.29	5.57							6.1			
Haul Truck		485	10	60	0.38	2.35							9.5			
Front Loade	1	48	10	60	0.36	5.25	ļ						2.0			
Subphase 1d: Demobilization																
Crew/work Boa		100	5	15	0.38	5.50									1	
Mechanical Dredge		2500	2	15	0.29	2.36										
Split Hull Barg		350	12	15	0.38	5.50										
Tugboa	1	2000	2	15	0.31	5.50										
Phase 2: Dredge Suitable Material in Federal Channels																
Subphase 2a: Mobilization																
Crew/work boa	2	100	5	15	0.38	5.50										
Mechanical Dredge	1	2500	2	15	0.29	2.36										
Split Hull Barg	2	350	3	15	0.38	5.50										
Tugboa	1	2000	2	15	0.31	5.50										
Phase 2b: Dredge Suitable Material in Federal Channels																
Crew/work boa		100	5	157	0.38	5.50										
Mechanical Dredge		2500	10	157	0.29	2.36										
Split Hull Barg	2	350	3	157	0.38	5.50										
Tugboa	1	2000	8	157	0.31	5.50										
NOx Daily Average Emission (lbs/workday)										36.9			1.0			
NOx Annual Emission (tons/year)							Year 202	0: Total N	Ох			1.4	4 tons		Year 20	21: Total N

2021		Feb		2021		Mar		2021		Nov		2021		Dec		2021		Jan		2022		Feb	
3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd
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x			1.1	8 tons														Year 202	22: Total N	Юx			8.8

2022		Mar		2022	;	Apr		2022		May		2022	!	Jun		2022	!	Jul		2022	Σ
3rd	4th	1st	2nd	3rd	4th	Apr 1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
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Newport Harbor Dredging (NEPA Projects) - Air Pollutant Emission Inventory - PM10

						2020 DM10	Is:		2020	`	In		303	10	1.	
Db /Cbb /E /	l	Equip	Hours/	Work	Load		Nov	21	2020		Dec	21	202		Jan	21
Phase/Subphase/Equipment	# Equip	Hp	Day	Days	Fac	Fac	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd
Phase 1: Entrance Channel Dredging and Rock Revetment																
Subphase 1a - Mobilization (Larger Dredge Equipment)																
Crew/Work Bo	at 2	100	5	15	0.38	0.20				0.2						
Mechanical Dredg	er 1	2500	2	15	0.29	0.06				0.2						
Split Hull Bar	ge 2	350	3	15	0.38	0.20				0.4						
Tugbo	at 1	2000	2	15	0.31	0.20				0.6						
Subphase 1b: Dredge Entrance Channel																
Mechanical Dredg	er 1	2500	10	16	0.29	0.06							1.0			
Tugbo	at 1	2000	5	16	0.31	0.20							1.4			
Crew/work Bo	at 2	100	5	16	0.38	0.20							0.2			
Split Hull Bar	ge 2	350	3	16	0.38	0.20							0.4			
Subphase 1c: Rock Revetment Repairs																
Doz	er 1	215	10	60	0.40	0.32							0.6			
Cra	1e 1	170	10	60	0.29	0.30							0.3			
Haul Tru	ck 1	485	10	60	0.38	0.09							0.3			
Front Load	er 1	48	10	60	0.36	0.47							0.2			
Subphase 1d: Demobilization																
Crew/work Bo	at 2	100	5	15	0.38	0.20										
Mechanical Dredg	er 1	2500	2	15	0.29	0.06										
Split Hull Bar	,	350	12	15	0.38	0.20										
Tugbo	at 1	2000	2	15	0.31	0.20										
Phase 2: Dredge Suitable Material in Federal Channels																
Subphase 2a: Mobilization												1			1	1
Crew/work bo	at 2	100	5	15	0.38	0.20										
Mechanical Dredg	er 1	2500	2	15	0.29	0.06										1
Split Hull Bar	ge 2	350	3	15	0.38	0.20										1
Tugbo	at 1	2000	2	15	0.31	0.20										1
Phase 2b: Dredge Suitable Material in Federal Channels																1
Crew/work bo	at 2	100	5	157	0.38	0.20										1
Mechanical Dredg	er 1	2500	10	157	0.29	0.06										1
Split Hull Bar	ge 2	350	3	157	0.38	0.20										1
Tugbo	at 1	2000	8	157	0.31	0.20										1
Î																1
PM10 Daily Average Emission (lbs/workday)	1		•				1			1.3			4.3			
PM10 Annual Emission (tons/year)							Year 202	0: Total PI	M10			0.0	5 tons		Year 20	21: Total P
,									-							

202		Feb		202		Mar		2021		Nov		2021		Dec		202		Jan		202		Feb	
3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd
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IO			0.0	is tons														Year 20)22: Total I	PIVITU			0.

2022	2	Mar		2022		Apr 1st		2022		May		2022		Jun		2022	,	Jul		2022	
3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
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tons																				•	

Newport Harbor Dredging (NEPA Projects) - Air Pollutant Emission Inventory - PM25

Phase Phas								2020			202		_		202			
Phase 1: Entrance Channel Dredging and Rock Revetment	D1 (C.1.1. /T)			•														
Subphase la - Mobilization (Larger Dredge Equipment)	1 1	# Eq	ıip H	p	Day	Days	Fac	Fac	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd
CrewWork Boat 2 100 5 15 0.38 0.18 0.2	Phase 1: Entrance Channel Dredging and Rock Revetment																	
Mechanical Dredger 1 2500 2 15 0.29 0.06 0.2 0.05 0.	Subphase 1a - Mobilization (Larger Dredge Equipment)																	
Split Hull Barge 2 350 3 15 0.38 0.18 0.3 0.18	Crew/Work	oat 2	10	00	5	15	0.38	0.18				0.2						
Tugboat 1 2000 2 15 0.31 0.18 0.5	Mechanical Dre	lger 1	25	00	2	15	0.29	0.06				0.2						
Subphase 1b: Dredge Entrance Channel	Split Hull B	rge 2	35	50	3	15												
Mechanical Dredger 1 2500 10 16 0.29 0.06 0.09	Tug	oat 1	20	00	2	15	0.31	0.18				0.5						
Tugboat 1 2000 5 16 0.31 0.18	Subphase 1b: Dredge Entrance Channel																	
Crew/work Boat Split Hull Barge 2 350 3 16 0.38 0.18	Mechanical Dre	lger 1	25	00	10	16	0.29								0.9			
Subphase 1c: Rock Revetment Repairs	Tug	oat 1	20	00	5	16												
Subphase Ic: Rock Revetment Repairs	Crew/work	oat 2	10	00	5	16									0.2			
Dozer Crane 1 215 10 60 0.40 0.29 0.66	Split Hull B	rge 2	35	50	3	16	0.38	0.18							0.3			
Crane Haul Truck 1 485 10 60 0.29 0.27	Subphase 1c: Rock Revetment Repairs																	
Haul Truck Front Loader 1 485 10 60 0.38 0.08	D	ozer 1		_	10	60												
Subphase Id: Demobilization Crew/work Boat Mechanical Dredger Split Hull Barge Tugboat Subphase 2a: Mobilization Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Subphase 2b: Dredge Suitable Material in Federal Channels Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Subphase 2b: Dredge Suitable Material in Federal Channels Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Subphase 2b: Dredge Suitable Material in Federal Channels Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Subphase 2b: Dredge Suitable Material in Federal Channels Crew/work boat Subphase 2b: Dredge Suitable Material in Federal Channels Crew/work boat Mechanical Dredger Split Hull Barge Spli						60												
Subphase 1d: Demobilization Crew/work Boat 2 100 5 15 0.38 0.18	Haul To	uck 1			_	60												
Crew/work Boat Mechanical Dredger Split Hull Barge Tugboat Subphase 2a: Mobilization Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Crew/work boat Mechanical Dredger Split Hull Barge Tugboat Crew/work boat Tugboat Crew/work boat Tugboat Crew/work boat Cr	Front Los	der 1	4	8	10	60	0.36	0.44							0.2			
Mechanical Dredger 1 2500 2 15 0.29 0.06	Subphase 1d: Demobilization																	
Split Hull Barge Tugboat 1 2000 2 15 0.38 0.18				_	5	15												
Tugboat 1 2000 2 15 0.31 0.18																		
Phase 2: Dredge Suitable Material in Federal Channels Subphase 2a: Mobilization Crew/work boat Mechanical Dredger Split Hull Barge Tugboat 1 2000 2 15 0.38 0.18																		
Crew/work boat 2 100 5 15 0.38 0.18	Tug	oat 1	20	00	2	15	0.31	0.18										
Crew/work boat 2 100 5 15 0.38 0.18	Phase 2: Dredge Suitable Material in Federal Channels																	
Mechanical Dredger 1 2500 2 15 0.29 0.06	Subphase 2a: Mobilization																	
Split Hull Barge 2 350 3 15 0.38 0.18	Crew/work	oat 2	10	00	5	15	0.38	0.18										
Tugboat 1 2000 2 15 0.31 0.18	Mechanical Dre	lger 1	25	00	2	15	0.29	0.06										
Phase 2b: Dredge Suitable Material in Federal Channels	Split Hull B	rge 2	35	50	3	15	0.38	0.18										
Crew/work boat 2 100 5 157 0.38 0.18 Mechanical Dredger 1 2500 10 157 0.29 0.06 Split Hull Barge 2 350 3 157 0.38 0.18 Tugboat 1 2000 8 157 0.31 0.18	Tug	oat 1	20	00	2	15	0.31	0.18										
Mechanical Dredger 1 2500 10 157 0.29 0.06 Split Hull Barge 2 350 3 157 0.38 0.18 Tugboat 1 2000 8 157 0.31 0.18	Phase 2b: Dredge Suitable Material in Federal Channels			一														
Split Hull Barge 2 350 3 157 0.38 0.18 Tugboat 1 2000 8 157 0.31 0.18	Crew/work	oat 2	10	0	5	157	0.38	0.18										
Tugboat 1 2000 8 157 0.31 0.18	Mechanical Dre	lger 1	25	00	10	157	0.29	0.06										
	Split Hull B	rge 2	35	50	3	157	0.38	0.18										
DM25 Daily Avange Emission (lbs/worlder)	Tug	oat 1	20	00	8	157	0.31	0.18										
DM25 Daily Average Emission (lbs/worlder)																		
[F19125 Dany Average Emission (105/workday)	PM25 Daily Average Emission (lbs/workday)		-		<u> </u>			-		•		1.1			3.9			
PM25 Annual Emission (tons/year) Year 2020: Total PM25 0.05 tons Year 202	PM25 Annual Emission (tons/year)								Year 202	0: Total PI	W25			0.0	5 tons		Year 20	21: Total P

2021	Feb		202		Mar		2021		Nov		2021		Dec		202		Jan		202		Feb	
3rd 4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd
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	0.04 tons											1.1			5.5)22: Total				0.

2022	2	Mar		2022		Apr		2022		May		2022		Jun		2022		Jul		2022	
3rd	4th	1st	2nd	3rd	4th	Apr 1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
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Newport Harbor Dredging (NEPA Projects) - Air Pollutant Emission Inventory - ROG

Phase/Subphase/Equipment #1 Phase 1: Entrance Channel Dredging and Rock Revetment Subphase 1a - Mobilization (Larger Dredge Equipment) Crew/Work Boat Mechanical Dredger Split Hull Barge	# Equip 2 1	Equip Hp	Hours/ Day	Work Days	Load Fac		Nov 1st	2nd	2020 3rd	4th	Dec 1st	2nd	202 3rd	0 4th	Jan 1st	3-1
Phase 1: Entrance Channel Dredging and Rock Revetment Subphase 1a - Mobilization (Larger Dredge Equipment) Crew/Work Boat Mechanical Dredger	2	•	Day	Days	Fac	Fac	1st	2nd	3rd	4th	11st	2nd	3rd	4th	Hist	
Subphase 1a - Mobilization (Larger Dredge Equipment) Crew/Work Boat Mechanical Dredger	1	100													1-50	2nd
Crew/Work Boat Mechanical Dredger	1	100														
Mechanical Dredger	1	100														
			5	15	0.38	0.31				0.3						
Split Hull Barge		2500	2	15	0.29	0.18				0.6						
	2	350	3	15	0.38	0.31				0.5						
Tugboat	1	2000	2	15	0.31	0.31				0.8						
Subphase 1b: Dredge Entrance Channel																
Mechanical Dredger	1	2500	10	16	0.29	0.18							2.9			
Tugboat	1	2000	5	16	0.31	0.31							2.1			
Crew/work Boat	2	100	5	16	0.38	0.31							0.3			
Split Hull Barge	2	350	3	16	0.38	0.31							0.5			
Subphase 1c: Rock Revetment Repairs																
Dozer	1	215	10	60	0.40	0.62							1.2			
Crane	1	170	10	60	0.29	0.54							0.6			
Haul Truck	1	485	10	60	0.38	0.25							1.0			
Front Loader	1	48	10	60	0.36	1.48							0.6			
Subphase 1d: Demobilization																
Crew/work Boat	2	100	5	15	0.38	0.31										
Mechanical Dredger	1	2500	2	15	0.29	0.18										
Split Hull Barge	2	350	12	15	0.38	0.31										
Tugboat	1	2000	2	15	0.31	0.31										
Phase 2: Dredge Suitable Material in Federal Channels																
Subphase 2a: Mobilization																
Crew/work boat	2	100	5	15	0.38	0.31										
Mechanical Dredger	1	2500	2	15	0.29	0.18										
Split Hull Barge	2	350	3	15	0.38	0.31										
Tugboat	1	2000	2	15	0.31	0.31										
Phase 2b: Dredge Suitable Material in Federal Channels																
Crew/work boat	2	100	5	157	0.38	0.31										
Mechanical Dredger	1	2500	10	157	0.29	0.18										
Split Hull Barge	2	350	3	157	0.38	0.31										
Tugboat	1	2000	8	157	0.31	0.31										
ROG Daily Average Emission (lbs/workday)			·							2.2			9.1			
ROG Annual Emission (tons/year)							Year 2020): Total RC	G			0.1	1 tons		Year 202	21: Total R

202		Feb		202		Mar		2021		Nov		2021		Dec		202		Jan		202		Feb	
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ì			0.0	9 tons														Year 20	22: Total I	KUG			0.

2022	2	Mar		2022		Apr		2022		May		2022		Jun		2022		Jul		2022	
3rd	4th	1st	2nd	3rd	4th	Apr 1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
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tons																				•	

Newport Harbor Dredging (NEPA Projects) - Air Pollutant Emission Inventory - SO2

	1	Equip	Hours/	Work	Load	SO2	Nov		2020		Dec		2020	1	Jan	
Phase/Subphase/Equipment	# Equip	Equip Hp	Dav	Davs	Fac	Fac	1st	2nd		4th	1st	2nd	3rd	4th	1st	2nd
	# Equip	110	Day	Days												
Phase 1: Entrance Channel Dredging and Rock Revetment																
Subphase 1a - Mobilization (Larger Dredge Equipment) Crew/Work Boat	2	100		15	0.38	0.01				0.0					<u> </u>	
		2500	5 2		0.38	0.01				0.0			1		<u> </u>	
Mechanical Dredger		350	3	15	0.29	0.01				0.0					<u> </u>	
Split Hull Barge		2000	2	15 15	0.38	0.01				0.0			-		<u> </u>	
Tugboat	1	2000		15	0.51	0.01				0.0	T		1		<u> </u>	
Subphase 1b: Dredge Entrance Channel Mechanical Dredger	1	2500	10	16	0.29	0.01							0.1			
Mechanical Dredger Tugboat		2000	5	16 16	0.29	0.01							0.1			
Crew/work Boat		100	5		0.31	0.01					-		0.0			
Split Hull Barge		350	3	16 16	0.38	0.01							0.0			1
		350	-3	10	0.58	0.01					-		1 0.0	<u> </u>		
Subphase 1c: Rock Revetment Repairs Dozer	1	215	10	60	0.40	0.01					-		0.0			
	1	170	10	60	0.40	0.01							0.0		-	
Crane Haul Truck	1	485	10	60	0.29	0.01	-						0.0			
Front Loader		485	10	60	0.36	0.01							0.0		-	
	1	40	10	- 00	0.50	0.01	-						1 0.0	T		l I
Subphase 1d: Demobilization Crew/work Boat	2	100	5	15	0.38	0.01									<u> </u>	
Mechanical Dredger		2500	2	15	0.38	0.01						+			-	
Split Hull Barge		350	12	15	0.29	0.01						+	1		<u> </u>	
Tugboat		2000	2	15	0.31	0.01	-					+	-		<u> </u>	
	1	2000	<u> </u>	- 10	0.01	0.01	-		<u> </u>			+	1		 	
Phase 2: Dredge Suitable Material in Federal Channels Subphase 2a: Mobilization												-			<u> </u>	
, ·	2	100	5	15	0.38	0.01						-			<u> </u>	
Crew/work boat				15	0.38	0.01						-			<u> </u>	
Mechanical Dredger		2500 350	3	15 15	0.29	0.01							-		<u> </u>	
Split Hull Barge		2000	2		0.38	0.01						+	1		<u> </u>	
Tugboat Phase 2b: Dredge Suitable Material in Federal Channels	1	2000		15	0.51	0.01		-			-	+	+	1	 	
	2	100	5	157	0.38	0.01						1	1	1	<u> </u>	
Crew/work boat Mechanical Dredger		2500	10	157	0.38	0.01						+	1	1	 	
		350	3	157	0.29	0.01					<u> </u>	+	+	1	 	
Split Hull Barge						0.01					-	+	1	1	<u> </u>	
Tugboat	1	2000	8	157	0.31	0.01		-			-	1	1		 	
SO2 Daily Average Emission (lbs/workday)		l						<u> </u>		0.0	<u> </u>		0.2			
SO2 Annual Emission (tons/year)							Voor 202	0: Total SC	12	0.0		0.00	tons		Voor 202	1: Total SC
502 Annuai Einission (tons/year)							rear 202	o. Total SC	12			0.00	tons		rear 202	1. Total SC

2021		Feb		2021		Mar		2021		Nov		2021		Dec		2021		Jan		2022		Feb	
3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd
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2			0.0	0 tons														Vear 202	22: Total S	02			0.0

2022	2	Mar		2022		Apr 1st		2022		May		2022		Jun		2022		Jul		2022	
3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
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