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23	COORDINATION PROCEEDING SPECIAL TITLE [CRC 3.550(c)]	JUDICIAL COUNCIL COORDINATION PROCEEDING NO. 5310	
24	FUEL INDUSTRY CLIMATE CASES	Case No - CIC 24 005210	
25		Case No.: CJC-24-005310	
26	THIS CASE RELATES TO:		
27		FIRST AMENDED COMPLAINT FOR:	
28		2	
SHER EDLING LLP	First Amendei	D COMPLAINT 1	

EDLING LLP	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	The City of Richmond, a municipal corporation, individually and on behalf of The People of the State of California v. Chevron Corporation et al., Contra Costa Superior Court, Case No.: C18-00055 THE CITY OF RICHMOND, a municipal corporation, individually and on behalf of THE PEOPLE OF THE STATE OF CALIFORNIA, Plaintiffs, vs. CHEVRON CORPORATION; CHEVRON U.S.A. INC.; EXXONMOBIL CORPORATION; EXXONMOBIL OIL CORPORATION; EXXONMOBIL OIL CORPORATION; BP P.L.C.; BP AMERICA, INC.; SHELL PLC; SHELL USA, INC., SHELL OIL PRODUCTS COMPANY LLC; CITGO PETROLEUM CORP.; CONOCOPHILLIPS; CONOCOPHILLIPS COMPANY; PHILLIPS 66; PHILLIPS 66 COMPANY; TOTAL E&P USA INC.; TOTAL SPECIALTIES USA INC.; ENI S.p.A.; ENI OIL & GAS INC.; ANADARKO PETROLEUM CORP.; OCCIDENTAL PETROLEUM CORP.; OCCIDENTAL CHEMICAL CORP.; REPSOL S.A.; REPSOL ENERGY NORTH AMERICA CORP.; REPSOL TRADING USA CORP.; MARATHON OIL COMPANY; MARATHON OIL CORPORATION; MARATHON PETROLEUM CORP.; HESS CORP.; DEVON ENERGY CORP.; DEVON ENERGY PRODUCTION COMPANY, L.P.; ENCANA CORP.; APACHE CORP.; and DOES 1 through 100, inclusive, Defendants.	 PUBLIC NUISANCE ON BEHALF OF THE PEOPLE OF THE STATE OF CALIFORNIA; PUBLIC NUISANCE; STRICT LIABILITY – FAILURE TO WARN; PRIVATE NUISANCE; NEGLIGENCE – FAILURE TO WARN; and TRESPASS. JURY TRIAL DEMANDED
	SHER EDLING LLP	First Amended C	COMPLAINT 2

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1 I. INTRODUCTION

Defendants, major corporate members of the fossil fuel industry, have known for 2 1. 3 decades that unrestricted consumption of their fossil fuel products creates greenhouse gas pollution 4 that warms the planet and changes our climate. They have known for decades that those impacts 5 could be catastrophic and that only a narrow window existed to take action before the consequences would become irreversible. They have nevertheless engaged in a coordinated, multi-6 front effort to conceal and deny their own knowledge of those consequences, discredit the growing 7 8 body of publicly available scientific evidence connecting fossil fuel consumption to climate 9 change, and persistently create doubt in the minds of customers, consumers, the media, journalists, teachers, and the public about the reality and severity of climate change. At the same time, 10 Defendants have promoted and profited from a massive increase in the consumption of oil, coal, 11 and natural gas, which has in turn caused an enormous, foreseeable, and avoidable increase in 12 global greenhouse gas pollution and a concomitant increase in the concentration of greenhouse 13 14 gases,¹ particularly carbon dioxide ("CO₂") and methane, in the Earth's atmosphere. Those disruptions of the Earth's otherwise balanced carbon cycle have substantially contributed to a wide 15 range of dire climate-related effects, including global warming, rising atmospheric and ocean 16 temperatures, ocean acidification, melting polar ice caps and glaciers, more extreme and volatile 17 weather, and sea level rise. Plaintiffs, the People of the State of California and the City of 18 Richmond,² along with the City's residents, taxpayers, and infrastructure, suffer the consequences. 19 2. Defendants are vertically integrated extractors, producers, refiners, manufacturers, 20 distributors, promoters, marketers, and sellers of fossil fuel products. Decades of scientific 21 research show that pollution from Defendants' fossil fuel products plays a direct and substantial 22 23 role in the unprecedented rise in emissions of greenhouse gas pollution and increased atmospheric 24 CO₂ concentrations since the mid-20th century. This dramatic increase in atmospheric CO₂ and 25 ¹ As used in this Complaint, "greenhouse gases" refers collectively to carbon dioxide, methane, 26 and nitrous oxide. Where a source refers to a specific gas or gases, or when a process relates only

27 || to a specific gas or gases, this Complaint refers to them by name.

28 ² As used in this Complaint, "Richmond" and "City" refer to all areas within the geographic boundaries of the City.

other greenhouse gases is the main driver of the gravely dangerous changes occurring to the global
 climate.

3 3. Anthropogenic (human-caused) greenhouse gas pollution, primarily in the form of
4 CO₂, is far and away the dominant cause of climate change and sea level rise.³ The primary source
5 of this pollution is the extraction, production and consumption of coal, oil, and natural gas, referred
6 to collectively in this Complaint as "fossil fuel products."⁴

7 4. The rate at which Defendants have extracted and sold fossil fuel products has
8 exploded since the Second World War, as have emissions from those products. The substantial
9 majority of all greenhouse gas emissions in history has occurred since the 1950s, a period known
10 as the "Great Acceleration."⁵ About three quarters of all industrial CO₂ emissions in history have
11 occurred since the 1960s,⁶ and more than half have occurred since the late 1980s.⁷ The annual rate
12 of CO₂ emissions from fossil fuels has increased by more than 60% since 1990.⁸

- 5. Defendants have known for more than 50 years that greenhouse gas pollution from
 their fossil fuel products has a significant impact on the Earth's climate and sea levels. Defendants'
 awareness of the damaging consequences of their products' ordinary use corresponds almost
 exactly with the Great Acceleration, and with skyrocketing greenhouse gas emissions. Armed with
 that knowledge, Defendants took steps to protect their own assets from these threats through
- 18

 ¹⁹ ³See IPCC, <u>2014: Climate Change 2014: Synthesis Report</u>. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, R.K. Pachauri and L.A. Meyer (eds.)]. IPCC, Geneva, Switzerland. Page 6,

^{21 ||} Figure SMP.3, https://www.ipcc.ch/report/ar5/syr/.

⁴ See C. Le Quéré et al., <u>Global Carbon Budget 2016</u>, Earth Syst. Sci. Data 8, 632 (2016),

http://www.earth-syst-sci-data.net/8/605/2016/. Cumulative emissions since the beginning of the industrial revolution to 2015 were 413 GtC attributable to fossil fuels, and 190 GtC attributable to land use change. Id. Global CO₂ emissions from fossil fuels and industry remained nearly

²⁴ constant at 9.9 GtC in 2015, distributed among coal (41 %), oil (34 %), gas (19 %), cement (5.6 %), and gas flaring (0.7 %). <u>Id.</u> at 629.

 ⁵ Will Steffen et al., <u>The Trajectory of the Anthropocene: The Great Acceleration</u> (2015), http://journals.sagepub.com/doi/abs/10.1177/2053019614564785.

 ²⁰ ⁶ R.J. Andres et al., <u>A synthesis of carbon dioxide emissions from fossil-fuel combustion</u>,
 ²⁷ ¹⁰ Biogeosciences, 9, 1851 (2012), http://www.biogeosciences.net/9/1845/2012/.

 $^{28 ||}_{8}^{7} \underline{\text{Id.}}$

immense internal investment in research, infrastructure improvements, and plans to exploit new
 opportunities in a warming world.

But instead of warning consumers and the public about the dangers of fossil fuels,

4 Defendants mounted disinformation campaigns to undermine the burgeoning scientific consensus 5 on climate change; create doubt in the minds of consumers, the media, teachers, and the public about the dire consequences of burning fossil fuels; and delay the necessary transition to a lower-6 carbon future. Defendants' climate deception campaigns, and their aggressive promotion of fossil 7 fuel products despite knowing of their dangers, had the purpose and effect of unduly and 8 9 substantially inflating and sustaining the market for fossil fuels. Defendants' tortious and deceptive conduct, both individually and collectively, drove fossil fuel consumption and delayed the 10 transition to a lower-carbon future. This caused an enormous, foreseeable, and avoidable increase 11 in anthropogenic greenhouse gas emissions and accelerated global warming, bringing devastating 12

13 consequences to the City and its people.

14 7. Extreme flooding events will more than double in frequency on California's Pacific coast by 2050.9 Flooding and storms will become more frequent and more severe, and average sea 15 level will rise substantially along California's coast, and in the San Francisco Bay Area including 16 in the City of Richmond. Disruptions to weather cycles, extreme precipitation and drought, 17 heatwaves, and associated consequences—all due to anthropogenic global warming—will increase 18 19 in the City of Richmond. The City, situated on a peninsula and surrounded on its northern, western, 20 and southern boundaries by the San Francisco Bay, is particularly vulnerable to sea level rise and water shortages, and has already spent significant funds to study, mitigate, and adapt to the effects 21 of global warming. Climate change impacts already adversely affect Richmond and jeopardize 22 23 City-owned or operated facilities deemed critical for operations, utility services, and risk

24

3

6.

⁹ Sean Vitousek et al., <u>Doubling of coastal flooding frequency within decades due to sea-level</u> <u>rise</u>, Scientific Reports, (May 18, 2017) ("Only 10 cm of SLR doubles the flooding potential in high-latitude regions with small shape parameters, notably the North American west coast (including the major population centers Vancouver, Seattle, San Francisco, and Los Angeles), and the European Atlantic coast."); USGS, <u>In Next Decades</u>, Frequency of Coastal Flooding Will <u>Double Globally</u> (May 18, 2017), https://www.usgs.gov/news/next-decades-frequency-coastalflooding-will-double-globally.

management, as well as other assets that are essential to community health, safety, and well-being.
 These impacts, as well as extreme heat, present myriad public health harms in the City, felt first
 and worst by its most vulnerable communities.

8. The City has engaged in several planning processes to prepare for the multitude of
impacts from climatic shifts, and has recognized increasingly severe consequences.

9. Defendants' promotion, marketing, and sale of fossil fuel products, and
simultaneous concealment of the known hazards of those products, substantially, actually, and
proximately caused Plaintiffs' injuries.

- 9 10. Accordingly, the City brings a claim against Defendants for Public Nuisance on
 10 behalf of the People of California as well as itself, and claims for Strict Liability for Failure to
 11 Warn, Private Nuisance, Negligence, Negligent Failure to Warn, and Trespass on behalf of itself.
- 11. Plaintiffs do not seek relief as to state-owned property and assets. Plaintiffs do not
 13 seek any remedy for harms or violations for which the State or State agencies have exclusive
 14 authority to recover damages or obtain injunctive relief.
- 15 12. Plaintiffs hereby disclaim injuries arising on federal property and those arising from
 16 Defendants' provision of non-commercial, specialized fossil fuel products to the federal
 17 government for military and national defense purposes. Plaintiffs seek no recovery or relief
 18 attributable to these injuries.
- 19 13. Plaintiffs do not seek to impose liability on Defendants for their direct emissions of
 20 greenhouse gases and do not seek to restrain Defendants from engaging in their business
 21 operations.
- 14. By this action, Plaintiffs seek to ensure that the parties responsible for causing and
 exacerbating climate change-related harms to the City bear the costs of its impacts, rather than
 Plaintiffs, local taxpayers, or residents.
- 25 II. PARTIES
 - A. Plaintiffs
- 27 15. Plaintiff, the People of the State of California ("the People"), by and through the
 28 City Attorney for the City of Richmond, brings this suit pursuant to Code of Civil Procedure

26

section 731, and Civil Code sections 3479, 3480, 3491, and 3494, to abate the nuisance caused by
 the effects of climate change in the City's jurisdiction.

- 3 16. Plaintiff the City of Richmond ("the City" or "Richmond"), a municipal
 4 corporation, is a political subdivision of the State of California. It is a city located in Contra Costa
 5 County.
- 6 17. The City is bordered by the San Francisco Bay to the North, West, and South, and
 7 the Richmond Hills to the East.
- 8 18. Richmond is already experiencing sea level rise and associated impacts. The City
 9 will experience significant additional sea level rise over the coming decades through at least 2150.
- 10 19. Sea level has already risen significantly on the City's coast. The City anticipates
 11 and is planning for significant sea level rise by the year 2100, and the State of California projects
 12 possible sea level rise well above the City's estimates in that same period under a "business-as13 usual" emissions scenario.¹⁰
- 14 20. The sea level rise impacts on the City associated with an increase in average mean 15 sea level height include, but are not limited to, increased inundation and flooding in natural and 16 built environments with higher tides and intensified wave and storm surge events; aggravated wave impacts, including erosion, damage, and destruction of built structures, as well as natural features 17 like cliffs, beaches, and dunes, with consequent landslides; changes in sediment supply that could 18 19 alter or destroy natural coastal habitats like beaches and wetlands, which would otherwise naturally 20 mitigate sea level rise impacts; saltwater intrusion on groundwater and infrastructure; magnification of other climate change impacts, due to the superimposition of sea level rise on 21 22 shifts in precipitation patterns that result in more rain and attendant flooding; increased frequency 23 and severity of storms that cause erosion, flooding, and temporary sea level rise increases; and others. Compounding these environmental impacts are cascading social and economic impacts, 24 25
- 26
- ¹⁰ Gary Griggs et al., <u>Rising Seas in California: An Update on Sea-Level Rise Science</u>, California
 Ocean Science Trust, at 26, Table 1(b) (Apr. 2017),
- 28 http://www.opc.ca.gov/webmaster/ftp/pdf/docs/rising-seas-in-california-an-update-on-sea-levelrise-science.pdf.

1 || which are secondary and tertiary injuries that arise out of physical sea level rise injuries to the City.

- 21. 2 In addition, Richmond is and will continue to be impacted by disruptions to the 3 hydrologic cycle and extreme temperatures. The City is already experiencing a climatic and 4 meteorological shift toward hotter, dryer, and longer summers, with more extreme precipitation 5 events; increased ambient temperature; and increasingly frequent and severe drought. These changes have led to increased water shortages, impacts to biodiversity, impacts to public health, 6 and economic injuries. The City will also experience public health harms disproportionately borne 7 8 by communities made vulnerable by geographic, racial, or income disparities, including, but not 9 limited to, illness and injury from extreme heat, extreme weather, air quality impacts from wildfire smoke, and increased vector borne illnesses. The City must expend substantial funds to plan for 10 11 and respond to these phenomena, and to mitigate their secondary and tertiary impacts.
- 12 22. Compounding these environmental impacts are cascading social and economic
 13 impacts, that cause injuries to the City that will arise out of localized climate change-related
 14 conditions.
- 23. Municipal assets in the City that will be impacted by climate change and consequent 15 16 sea level rise and disruption of the hydrologic cycle include, but are not limited to, housing and schools, water supply, wastewater infrastructure, stormwater infrastructure, transportation 17 infrastructure, flood management infrastructure, energy infrastructure, solid waste/hazardous 18 19 materials management, parks, natural areas, and ecosystems, some of which have already suffered damage from rising sea levels and hydrologic regime shifts, and/or will suffer increasing damage 20 in the future through rising sea levels and through the exacerbation of natural climate-driven 21 phenomena such as drought and coastal erosion. 22
- 23

B. Defendants

24 24. When reference in this complaint is made to an act or omission of the Defendants,
25 unless specifically attributed or otherwise stated, such references should be interpreted to mean
26 that the officers, directors, agents, employees, or representatives of the Defendants committed or
27 authorized such an act or omission, or failed to adequately supervise or properly control or direct
28 their employees while engaged in the management, direction, operation, or control of the affairs

of Defendants, and did so while acting within the scope of their employment or agency.

2

1

25. <u>Chevron Entities:</u> Chevron Corporation and Chevron U.S.A. Inc.

a. Defendant Chevron Corporation is a multinational, vertically integrated
energy and chemicals company incorporated in Delaware, with its global headquarters and
principal place of business in San Ramon, California. Chevron Corporation, through its
predecessor Standard Oil Company of California, has been registered to do business in California
since 1926. Chevron Corporation was formerly known as, did or does business as, and/or is the
successor in liability to Standard Oil Company of California (also known as "Socal"), Texaco Inc.,
and ChevronTexaco Corporation.

b. Chevron Corporation operates through a web of United States and
international subsidiaries at all levels of the fossil fuel supply chain. Chevron Corporation and its
subsidiaries' operations include, but are not limited to: exploration, development, production,
storage, transportation, and marketing of crude oil and natural gas; refining crude oil into
petroleum products and marketing those products; and manufacturing and marketing commodity
petrochemicals, plastics for industrial uses, and fuel and lubricant additives.

16 c. Chevron Corporation controls and has controlled group-wide decisions
17 about the quantity and rate of fossil fuel production and sales, including those of its subsidiaries.
18 Chevron Corporation determines whether and to what extent its corporate holdings market,
19 produce, and/or distribute fossil fuel products.

d. Chevron Corporation controls and has controlled group-wide decisions,
including those of its subsidiaries, related to marketing, advertising, greenhouse gas emissions and
climate change resulting from the company's fossil fuel products, and communications strategies
concerning climate change and the link between fossil fuel use and climate-related impacts on the
environment and humans. Overall accountability for climate change within Chevron Corporation
lies with Chevron Corporation's Board of Directors and Executive Committee.

e. Defendant Chevron U.S.A. Inc. is a wholly owned subsidiary of Chevron
Corporation that acts on Chevron Corporation's behalf and is subject to Chevron Corporation's
control. Chevron U.S.A. Inc. is a Pennsylvania corporation, with its principal place of business in

San Ramon, California. Through its predecessors, Chevron U.S.A. Inc. has been registered to do
 business in California since 1965. Chevron U.S.A. Inc. was formerly known as, did or does
 business as, and/or is the successor in liability to Gulf Oil Corporation, Gulf Oil Corporation of
 Pennsylvania, Chevron Products Company, Chevron Chemical Company, and Chevron Chemical
 Company LLC.

f. Defendants Chevron Corporation and Chevron U.S.A. Inc., together with
their predecessors, successors, parents, subsidiaries, affiliates, and divisions, are collectively
referred to herein as "Chevron."

g. Plaintiffs' claims against Chevron arise out of and are related to the acts and
omissions of Chevron in California and elsewhere that caused and will cause injuries in California,
including in Richmond.

h. Chevron has purposefully directed its tortious conduct toward California by 12 distributing, marketing, advertising, promoting, and supplying its fossil fuel products in California, 13 14 with knowledge that the intended use of those products for combustion has caused and will continue to cause climate change-related harms in Richmond, including Plaintiffs' injuries. 15 16 Chevron's statements in California and elsewhere made in furtherance of its campaign of deception about and denial of climate change, and Chevron's affirmative promotion of its fossil fuel products 17 as safe with knowledge of how the intended use of those products would cause climate change-18 19 related harms, were designed to conceal and mislead consumers and the public, including 20 Richmond and its residents, about the serious adverse consequences that would result from continued use of Chevron's products. That conduct was purposefully directed to reach Richmond 21 22 and obscure the dangers of Chevron's fossil fuel products from Richmond and its residents such 23 that use of Chevron's fossil fuel products in Richmond would not decline.

i. Over the last several decades and continuing to the present day, Chevron
spent millions of dollars on radio, television, online, social media, and outdoor advertisements in
the California market related to its fossil fuel products. Since at least 1970, and continuing to the
present day, Chevron has advertised in print publications circulated widely to California
consumers, including but not limited to the following: <u>The Atlantic, Life, National Geographic</u>,

The New York Times, Sports Illustrated, Time Magazine, The Wall Street Journal, and The 1 Washington Post. As further detailed herein, these include advertisements containing false or 2 misleading statements, misrepresentations, and/or material omissions obfuscating the connection 3 4 between the production and use of Chevron's fossil fuel products and climate change, and/or 5 misrepresenting Chevron's products or Chevron itself as environmentally friendly.

Significant quantities of Chevron's fossil fuel products are or have been 6 j. 7 transported, traded, distributed, promoted, marketed, manufactured, sold, and/or consumed in 8 California, from which activities Chevron derives and has derived substantial revenue. Chevron 9 conducts and controls, either directly or through franchise agreements, retail fossil fuel sales at gas station locations throughout California, at which locations it promotes, advertises, and sells its 10 11 fossil fuel products under its various brand names, including Chevron, Texaco, and other brand names. Chevron operates over 1,500 Chevron-branded petroleum service stations in California. 12 Chevron has owned and operated an oil refinery in Richmond, California, since 1902, and has 13 14 owned and operated an oil refinery in El Segundo, California, since 1911. During the period relevant to this Complaint, Chevron sold a substantial percentage of all retail gasoline sold in 15 California. 16

Chevron historically directed its fossil fuel product advertising, marketing, 17 k. and promotional campaigns to California, including through maps that identified the locations of 18 19 its service stations in California. Chevron markets and advertises its fossil fuel products in 20 California to California residents by maintaining an interactive website available to prospective customers by which it directs California residents to Chevron's nearby retail service stations. 21 22 Chevron markets and sells engine lubricants and motor oils to California customers under its Delo, IsoClean, Techron, and Havoline brand names at retail outlets. Chevron offers a proprietary credit 23 24 card known as the "Chevron Techron Advantage Credit Card," which allows consumers in 25 California to pay for gasoline and other products at Chevron-branded service stations, and which encourages California consumers to use Chevron-branded service stations by offering various 26 rewards, including discounts on gasoline purchases at Chevron service stations and cash rebates. 27 Chevron further maintains two smartphone applications known as the "Chevron App" and the 28

"Texaco App," both part of the "Chevron Texaco Rewards" program. The program offers
California consumers a cashless payment method for gasoline and other products at Chevron- and
Texaco-branded service stations. California consumers utilize the payment method by providing
their credit card information through the application. California consumers can also receive
rewards, including discounts on gasoline purchases, by registering their personal identifying
information in the apps and by using the applications to identify and activate gas pumps at Chevron
and Texaco service stations during a purchase.

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26. <u>Exxon Entities:</u> Exxon Mobil Corporation and ExxonMobil Oil Corporation

9 a. Defendant Exxon Mobil Corporation is a New Jersey corporation headquartered in Spring, Texas, and has been registered to do business in California since 1972. 10 11 Exxon Mobil Corporation is a multinational, vertically integrated energy and chemical company and one of the largest publicly traded international oil and gas companies in the world. Exxon 12 Mobil Corporation was formerly known as, did or does business as, and/or is the successor in 13 14 liability to Exxon Corporation; ExxonMobil Refining and Supply Company; Exxon Chemical U.S.A.; ExxonMobil Chemical Corporation; ExxonMobil Chemical U.S.A.; ExxonMobil Refining 15 16 & Supply Corporation; Exxon Company, U.S.A.; Standard Oil Company of New Jersey; and Mobil Corporation. 17

b. Defendant ExxonMobil Oil Corporation is a wholly owned subsidiary of
Exxon Mobil Corporation, acts on Exxon Mobil Corporation's behalf, and is subject to Exxon
Mobil Corporation's control. ExxonMobil Oil Corporation is a New York corporation
headquartered in Spring, Texas, and has been registered to do business in California since 1959.
ExxonMobil Oil Corporation was formerly known as, did or does business as, and/or is the
successor in liability to Mobil Oil Corporation. ExxonMobil Oil Corporation is engaged in the
business of oil and natural gas production, refining, marketing, and distribution.

c. Exxon Mobil Corporation controls and has controlled group-wide decisions
about the quantity and rate of fossil fuel production and sales, including those of its subsidiaries.
Exxon Mobil Corporation's 2022 Form 10-K filed with the United States Securities and Exchange
Commission ("SEC") represents that its success, including its "ability to mitigate risk and provide

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attractive returns to shareholders, depends on [its] ability to successfully manage [its] overall
portfolio, including diversification among types and locations of [its] projects, products produced,
and strategies to divest assets." Exxon Mobil Corporation determines whether and to what extent
its subsidiaries market, produce, and/or distribute fossil fuel products. For example, on October
11, 2023, Exxon Mobil Corporation announced its acquisition of Pioneer Natural Resources in a
press release that referred to the corporate family generally as "ExxonMobil."

d. Exxon Mobil Corporation controls and has controlled group-wide 7 8 decisions, including those of its subsidiaries, related to marketing, advertising, greenhouse gas 9 emissions and climate change resulting from the company's fossil fuel products, and communications strategies concerning climate change and the link between fossil fuel use and 10 11 climate-related impacts on the environment and humans. Exxon Mobil Corporation's Board holds the highest level of direct responsibility for climate change policy. Exxon Mobil Corporation's 12 Chairman of the Board and Chief Executive Officer, its President, and the other members of its 13 14 Management Committee have been actively engaged in discussions relating to greenhouse gas 15 emissions and the risks of climate change on an ongoing basis. Exxon Mobil Corporation requires 16 its subsidiaries, when seeking funding for capital investments, to provide estimates of project costs related to greenhouse gas emissions. 17

18 e. Defendants Exxon Mobil Corporation, ExxonMobil Oil Corporation, and
19 their predecessors, successors, parents, subsidiaries, affiliates, and divisions, are collectively
20 referred to herein as "Exxon."

f. Plaintiffs' claims against Exxon arise out of and are related to the acts and
omissions of Exxon in California and elsewhere that caused and will cause injuries in California,
including in Richmond.

g. Exxon consists of numerous divisions and affiliates in all areas of the fossil
fuel industry, including exploration for and production of crude oil and natural gas; manufacture
of petroleum products; and transportation, promotion, marketing, and sale of crude oil, natural gas,
and petroleum products. Exxon is also a major manufacturer and marketer of commodity
petrochemical products.

h. Exxon has purposefully directed its tortious conduct toward California by 1 distributing, marketing, advertising, promoting, and supplying its fossil fuel products in California, 2 3 with knowledge that the intended use of those products for combustion has caused and will 4 continue to cause climate change-related harms in Richmond, including Plaintiffs' injuries. 5 Exxon's statements in California and elsewhere made in furtherance of its campaign of deception about and denial of climate change, and Exxon's affirmative promotion of its fossil fuel products 6 7 as safe with knowledge of how the intended use of those products would cause climate change-8 related harms, were designed to conceal and mislead consumers and the public, including 9 Richmond and its residents, about the serious adverse consequences that would result from continued use of Exxon's products. That conduct was purposefully directed to reach Richmond 10 11 and obscure the dangers of Exxon's fossil fuel products from Richmond and its residents such that use of Exxon's fossil fuel products in Richmond would not decline. 12

- i. Over the past several decades and continuing to the present day, Exxon 13 14 spent millions of dollars on radio, television, online, social media, and outdoor advertisements in the California market related to its fossil fuel products. Since at least 1972, and continuing to the 15 16 present day, Exxon has advertised its fossil fuel products in print publications circulated widely to California consumers, including but not limited to: The Atlantic, Life, National Geographic, The 17 New York Times, People, Sports Illustrated, Time, The Wall Street Journal, and The Washington 18 19 Post. As further detailed herein, these include advertisements containing false or misleading statements, misrepresentations, and/or material omissions designed to hide the connection between 20 the production and use of Exxon's fossil fuel products and climate change, and/or misrepresenting 21 22 Exxon's products or Exxon itself as environmentally friendly.
- j. Significant quantities of Exxon's fossil fuel products are or have been
 transported, traded, distributed, promoted, marketed, manufactured, sold, and/or consumed in
 California, from which activities Exxon derives and has derived substantial revenue. Exxon owns
 and operates a petroleum storage and transport facility in the San Ardo Oil Field in San Ardo,
 California. Exxon and its predecessors owned and operated an oil refinery in Torrance, California,
 from 1966 to 2016, shortly after an explosion disabled the refinery. Exxon Co. USA, an

ExxonMobil subsidiary, operated a petroleum refinery in Benicia, California, from 1968 to 2000. 1 Exxon also-both directly and through its subsidiaries and/or predecessors-in-interest-has 2 3 supplied substantial quantities of fossil fuel products to California during the period relevant to 4 this Complaint. Currently, Exxon promotes, markets, and sells gasoline and other fossil fuel 5 products to California consumers through approximately 600 Exxon- and Mobil-branded petroleum service stations in California. During the period relevant to this Complaint, Exxon sold 6 a substantial percentage of all retail gasoline in California. Exxon also markets and sells petroleum 7 products, including engine lubricants and motor oils sold under the "Mobil 1" brand name, to 8 9 California customers through local retailers.

k. Exxon historically directed its fossil fuel product advertising, marketing, 10 11 and promotional campaigns to California residents, including through maps that identify the locations of its service stations in California. To this day, Exxon continues to market and advertise 12 its fossil fuel products in California to California residents by maintaining an interactive website 13 14 available to prospective customers that directs California residents to Exxon's nearby retail service stations and lubricant distributors. Further, Exxon promotes its products in California by regularly 15 16 updating and actively promoting its mobile device application, "Exxon Mobil Rewards+," throughout California, which encourages California users to consume fuel at Exxon stations in 17 California in exchange for rewards on every fuel purchase. 18

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27. <u>BP Entities:</u> BP P.L.C. and BP America Inc.

Defendant **BP P.L.C.** is a multinational, vertically integrated energy and 20 a. petrochemical public limited company, registered in England and Wales with its principal place of 21 22 business in London, England. BP P.L.C. consists of three main operating segments: (1) exploration and production, (2) refining and marketing, and (3) "gas and low-carbon energy." BP P.L.C. is the 23 24 ultimate parent company of numerous subsidiaries, referred to collectively as the "BP Group," 25 which explore for and extract oil and gas worldwide; refine oil into fossil fuel products such as gasoline; and market and sell oil, gasoline, other refined petroleum products, and natural gas 26 27 worldwide. BP P.L.C.'s subsidiaries explore for oil and natural gas under a wide range of licensing, joint arrangement, and other contractual agreements. 28

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b. BP P.L.C. controls and has controlled group-wide decisions about the 1 quantity and rate of fossil fuel production and sales, including those of its subsidiaries. BP P.L.C. 2 3 is the ultimate decisionmaker on fundamental decisions about the BP Group's core business, i.e., 4 the volume of group-wide fossil fuels to produce and market, including among BP P.L.C.'s 5 subsidiaries. For instance, BP P.L.C. reported that, in 2016–17, it brought online thirteen major exploration and production projects. These contributed to a 12% increase in the BP Group's overall 6 fossil fuel product production. These projects were carried out by BP P.L.C.'s subsidiaries. Based 7 8 on these projects, BP P.L.C. expected the BP Group to deliver to customers 900,000 barrels of 9 new product per day by 2021. BP P.L.C. further reported that in 2017 it sanctioned three new exploration projects in Trinidad, India, and the Gulf of Mexico. 10

11 c. BP P.L.C. controls and has controlled group-wide decisions, including those of its subsidiaries, related to marketing, advertising, climate change, and greenhouse gas 12 emissions from its fossil fuel products, as well as communications strategies concerning climate 13 14 change and the link between fossil fuel use and climate-related impacts on the environment and humans. BP P.L.C. makes decisions on production and use of fossil fuel reserves for the entire BP 15 16 Group based on factors including climate change. BP P.L.C.'s Board of Directors is the company's highest decision-making body, with direct responsibility for the BP Group's policies concerning 17 climate change policies. BP P.L.C.'s chief executive is responsible for maintaining the BP Group's 18 19 system of internal control that governs the BP Group's business conduct. BP P.L.C.'s senior leadership directly oversees a carbon steering group, which manages climate-related matters and 20 consists of two committees-both overseen directly by the Board-focused on climate-related 21 22 investments.

d. Defendant BP America Inc. is a wholly owned subsidiary of BP P.L.C. that
acts on BP P.L.C.'s behalf and is subject to BP P.L.C.'s control. BP America Inc. is a vertically
integrated energy and petrochemical company incorporated in the state of Delaware with its
headquarters and principal place of business in Houston, Texas. BP America Inc. is registered to
do business in California. BP America Inc. consists of numerous divisions and affiliates in all
aspects of the fossil fuel industry, including exploration for and production of crude oil and natural

gas; manufacture of petroleum products; and transportation, marketing, and sale of crude oil,
natural gas, and petroleum products. BP America Inc. was formerly known as, did or does business
as, is or was affiliated with, and/or is the successor in liability to Amoco Oil Company; Amoco
Production Company; ARCO Products Company; BP Exploration & Oil, Inc.; BP Products North
America Inc.; BP Amoco Corporation; BP Oil, Inc.; BP Oil Company; Sohio Oil Company;
Standard Oil of Ohio (SOHIO); Standard Oil (Indiana); and Atlantic Richfield Company (a
Pennsylvania Corporation) and its division, the Arco Chemical Company.

8 e. Defendants BP P.L.C. and BP America, Inc., together with their
9 predecessors, successors, parents, subsidiaries, affiliates, and divisions, are collectively referred to
10 herein as "BP."

f. Plaintiffs' claims against BP arise out of and are related to the acts and
 omissions of BP in California and elsewhere that caused or will cause injuries in California,
 including in Richmond.

14 g. BP has purposefully directed its tortious conduct toward California by distributing, marketing, advertising, promoting, and supplying its fossil fuel products in California, 15 16 with knowledge that the intended use of those products for combustion have caused and will continue to cause climate change-related harms in Richmond, including Plaintiffs' injuries. BP's 17 statements in California and elsewhere made in furtherance of its campaign of deception about and 18 19 denial of climate change, and BP's affirmative promotion of its fossil fuel products as safe with 20 knowledge of how the intended use of those products would cause climate change-related harms, were designed to conceal and mislead consumers and the public, including Richmond and its 21 residents, about the serious adverse consequences that would result from continued use of BP's 22 23 products. That conduct was purposefully directed to reach Richmond and obscure the dangers of 24 BP's fossil fuel products from Richmond and its residents such that use of BP's fossil fuel products 25 in Richmond would not decline.

h. Over the last several decades and continuing to the present day, BP—
especially BP p.l.c.—spent millions of dollars on radio, television, online, social media, and
outdoor advertisements in the California market related to its fossil fuel products. Since at least

1 1988 and continuing to the present day, BP has advertised in print publications circulated widely
2 to California consumers, including but not limited to the following: <u>The Atlantic, Life, National</u>
3 <u>Geographic, The New York Times, People, Sports Illustrated, Time, The Wall Street Journal, and</u>
4 <u>The Washington Post</u>. As further detailed herein, these include advertisements containing false or
5 misleading statements, misrepresentations, and/or material omissions obfuscating the connection
6 between the production and use of BP's fossil fuel products and climate change, and/or
7 misrepresenting BP's products or BP itself as environmentally friendly.

Significant quantities of BP's fossil fuel products are or have been 8 i. 9 transported, traded, distributed, promoted, marketed, manufactured, sold, and/or consumed in California, from which activities BP derives and has derived substantial revenue. BP conducts and 10 11 controls, either directly or through franchise agreements, retail fossil fuel sales at gas station locations in substantial portions of California, at which locations it promotes, advertises, and sells 12 its fossil fuel products under its ARCO brand name. Among other operations, BP operates more 13 14 than 300 ARCO-licensed and branded gas stations in California. From 2000 to 2013, BP also owned and operated an oil refinery in Carson, California. During the period relevant to this 15 16 Complaint, BP sold a substantial percentage of all retail gasoline sold in California. BP's marketing and trading business maintains an office in Irvine, California. BP maintains an energy 17 research center in San Diego, California. 18

j. BP also markets and sells other fossil fuel products, including engine
lubricant and motor oils, to Richmond and California consumers under its Castrol brand name.

k. BP historically directed its fossil fuel product advertising, marketing, and
promotional campaigns to California, including through maps that identified the locations of its
service stations in California. BP markets and advertises its fossil fuel products in California to
California residents by maintaining an interactive website available to prospective customers by
which it directs California residents to BP's nearby retail service stations and/or lubricant
distributors.

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By BP's own description, its "retail stations in California serve more than
 640,000 customers every day."¹¹ BP claims to support 3,000 jobs in California, including at least
 1,400 BP employees, and has invested over \$100 million through vendors in California.

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28. <u>Shell Entities:</u> Shell plc, Shell USA, Inc., and Shell Oil Products Company LLC

a. Defendant Shell plc (formerly Royal Dutch Shell PLC) is a vertically
integrated multinational energy and petrochemical company. Shell plc is incorporated in England
and Wales, with its headquarters and principal place of business in The Hague, Netherlands. Shell
plc is the ultimate parent company of numerous divisions, subsidiaries, and affiliates, referred to
collectively as the "Shell Group," that engage in all aspects of fossil fuel production, including
exploration, development, extraction, manufacturing and energy production, transport, trading,
marketing, and sales.

b. Shell plc controls and has controlled group-wide decisions about the
quantity and extent of fossil fuel production and sales, including those of its subsidiaries. Shell
plc's Board of Directors determines whether and to what extent Shell subsidiary holdings around
the globe produce Shell-branded fossil fuel products.

Shell plc controls and has controlled group-wide decisions, including those 16 c. of its subsidiaries, related to marketing, advertising, greenhouse gas emissions and climate change 17 resulting from the company's fossil fuel products, and communications strategies concerning 18 19 climate change and the link between fossil fuel use and climate-related impacts on the environment and humans. Overall accountability for climate change within the Shell Group lies with Shell plc's 20 Chief Executive Officer and Executive Committee. For instance, at least as early as 1988, Shell 21 plc, through its predecessors and subsidiaries, was researching company-wide CO₂ emissions and 22 23 concluded that the Shell Group accounted for 4% of the CO₂ emitted worldwide from combustion, 24 and that climatic changes could compel the Shell Group, as controlled by Shell plc, to examine the 25 possibilities of expanding and contracting its business accordingly.

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¹¹ BP, <u>Bp in California</u>, https://www.bp.com/content/dam/bp/country-sites/en_us/united-states/home/documents/where-we-operate/states/bp%20in%20California.pdf.

Defendant Shell USA, Inc. (formerly Shell Oil Company) is a wholly 1 d. owned subsidiary of Shell plc that acts on Shell plc's behalf and is subject to Shell plc's control. 2 3 Shell USA, Inc. is incorporated in Delaware, with its principal place of business in Houston, Texas. 4 Shell USA, Inc. has been registered to do business in California since 1949. Shell USA, Inc. was 5 formerly known as, did or does business as, and/or is the successor in liability to Shell Oil Company; Shell Oil; Deer Park Refining LP; Shell Oil Products US; Shell Chemical LP; Shell 6 Trading (US) Company; Shell Energy Resources Company; Shell Energy Services Company, 7 8 L.L.C.; The Pennzoil Company; and Pennzoil-Quaker State Company.

9 e. Defendant Shell Oil Products Company LLC is a wholly owned
10 subsidiary of Shell USA, Inc., that acts on Shell USA, Inc.'s behalf and is subject to Shell USA,
11 Inc.'s control. Shell Oil Products Company LLC is incorporated in Delaware, with its principal
12 place of business in Houston, Texas, and has been registered to do business in California since
13 2001. Shell Oil Products Company LLC was formerly known as, did or does business as, and/or
14 is the successor in liability to Shell Oil Products Company, which was a Delaware corporation that
15 converted to a limited liability company in 2001.

16 f. Defendants Shell plc, Shell USA, Inc., Shell Oil Products Company LLC,
17 and their predecessors, successors, parents, subsidiaries, affiliates, and divisions are collectively
18 referred to herein as "Shell."

19 g. Plaintiffs' claims against Shell arise out of and are related to the acts and
20 omissions of Shell in California and elsewhere that caused and will cause injuries in California,
21 including in Richmond.

h. Shell has purposefully directed its tortious conduct toward California by
distributing, marketing, advertising, promoting, and supplying its fossil fuel products in California,
with knowledge that the intended use of those products for combustion has caused and will
continue to cause climate change-related harms in Richmond, including Plaintiffs' injuries. Shell's
statements in California and elsewhere made in furtherance of its campaign of deception about and
denial of climate change, and Shell's affirmative promotion of its fossil fuel products as safe with
knowledge of how the intended use of those products would cause climate change-related harms,

were designed to conceal these harms and mislead consumers and the public, including Richmond
 and its residents, about the serious adverse consequences that would result from continued use of
 Shell's products. That conduct was purposefully directed to reach Richmond and obscure the
 dangers of Shell's fossil fuel products from Richmond and its residents such that use of Shell's
 fossil fuel products in Richmond would not decline.

Over the last several decades and continuing to the present day, Shell spent 6 i. millions of dollars on radio, television, online, social media, and outdoor advertisements in the 7 8 California market related to its fossil fuel products. Since at least 1970, and continuing to the 9 present day, Shell has advertised its fossil fuel products in print publications circulated widely to California consumers, including but not limited to the following: The Atlantic, Life, National 10 11 Geographic, The New York Times, People, Sports Illustrated, Time, The Wall Street Journal, and The Washington Post. As further detailed herein, these include advertisements containing false or 12 misleading statements, misrepresentations, and/or material omissions obfuscating the connection 13 14 between the production and use of Shell's fossil fuel products and climate change, and/or misrepresenting Shell's products or Shell itself as environmentally friendly. 15

16 Significant quantities of Shell's fossil fuel products are or have been i. transported, traded, distributed, promoted, marketed, manufactured, sold, and/or consumed in 17 California, from which activities Shell derives and has derived substantial revenue. Shell conducts 18 19 and controls, either directly or through franchise agreements, retail fossil fuel sales at gas station 20 locations throughout California, at which locations it promotes, advertises, and sells its fossil fuel products under its Shell brand name. Shell operates over 1,000 Shell-branded petroleum service 21 22 stations in California. During the period relevant to this Complaint, Shell sold a substantial percentage of all retail gasoline sold in California. Shell also supplies, markets, and promotes its 23 24 Pennzoil line of lubricants at retail and service stations throughout California. From 1924 to 1992, 25 Shell owned and operated an oil refinery in Carson, California, where it now owns and operates 26 the property as a distribution facility for petroleum and petroleum products throughout Southern 27 California. From 1915 to 2020, Shell owned and operated an oil refinery in Martinez, California.

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1 From 1998 to 2007, Shell owned and operated an oil refinery in Wilmington, California. From 2 1998 to 2005, Shell owned and operated an oil refinery in Bakersfield, California.

3 k. Shell historically directed its fossil fuel product advertising, marketing, and 4 promotional campaigns to California, including through maps that identified the locations of its 5 service stations in California. Shell markets and advertises its fossil fuel products in California to California residents by maintaining an interactive website available to prospective customers by 6 which it directs California residents to Shell's nearby retail service stations. Shell offers a 7 proprietary credit card known as the "Shell Fuel Rewards Card," which allows consumers in 8 9 California to pay for gasoline and other products at Shell-branded service stations, and which encourages consumers to use Shell-branded gas stations by offering various rewards, including 10 11 discounts on gasoline purchases. Shell further maintains a smartphone application known as the "Shell US App" that offers California consumers a cashless payment method for gasoline and other 12 products at Shell-branded service stations. California consumers utilize the payment method by 13 14 providing their credit card information through the application. California consumers can also receive rewards, including discounts on gasoline purchases, by registering their personal 15 16 identifying information in the Shell US App and using the application to identify and activate gas pumps at Shell service stations during a purchase. 17

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<u>Citgo Petroleum Corporation ("Citgo")</u> 29.

19 Citgo is a direct, wholly owned subsidiary of PDV America, Incorporated, a. which is a wholly owned subsidiary of PDV Holding, Incorporated. These organizations' ultimate 20 parent is Petroleos de Venezuela, S.A. ("PDVSA"), an entity wholly owned by the Republic of 21 22 Venezuela that plans, coordinates, supervises and controls activities carried out by its subsidiaries. 23 Citgo is incorporated in the State of Delaware and maintains its headquarters in Houston, Texas.

24 Citgo and its subsidiaries are engaged in the refining, marketing, and b. 25 transportation of petroleum products including gasoline, diesel fuel, jet fuel, petrochemicals, lubricants, asphalt, and refined waxes. 26

27 Citgo is registered to do business in the State of California and has c. designated an agent for service of process in California. Citgo further does substantial fossil fuel 28

product-related business in California, and a substantial portion of its fossil fuel products are
extracted, refined, transported, traded, distributed, marketed, and/or sold in California. For
instance, Citgo sells significant volumes of fossil-fuel derived consumer motor oils and automobile
lubricants through retail and wholesale distributers. Citgo further sells a wide variety of greases
and oils for use in construction, mining, agricultural, and metalworking machinery and vehicles,
and in many other industrial and commercial settings, through licensed distributors in California.

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30. <u>ConocoPhillips Entities:</u> ConocoPhillips, ConocoPhillips Company, Phillips 66, and Phillips 66 Company

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a. Defendant ConocoPhillips is a multinational energy company incorporated
 in Delaware, with its principal place of business in Houston, Texas. ConocoPhillips consists of
 numerous divisions, subsidiaries, and affiliates that execute ConocoPhillips's fundamental
 decisions related to all aspects of fossil fuel production, including exploration, extraction,
 production, manufacture, transport, and marketing.

b. ConocoPhillips controls and has controlled group-wide decisions about the 15 quantity and rate of fossil fuel production and sales, including those of its subsidiaries. 16 ConocoPhillips determines whether and to what extent its corporate holdings market, produce, 17 and/or distribute fossil fuel products. ConocoPhillips's most recent annual report to the Securities 18 and Exchange Commission subsumes the operations of ConocoPhillips's subsidiaries under its 19 name. In ConocoPhillips's Form 10-K filed with the SEC for Fiscal Year 2022, the company 20 represents that its value-for which ConocoPhillips maintains ultimate responsibility-is a 21 function of its decisions to direct subsidiaries to develop crude oil, bitumen, natural gas, and natural 22 gas liquids from ConocoPhillips's reserves into fossil fuel products and to explore for and replace 23 those reserves with more fossil fuels: "Unless we successfully develop resources, the scope of our 24 business will decline, resulting in an adverse impact to our business. . . . If we are not successful 25 in replacing the resources we produce with good prospects for future organic development or 26 through acquisitions, our business will decline." 27

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c. ConocoPhillips optimizes the ConocoPhillips group's oil and gas portfolio
to fit ConocoPhillips's strategic plan. For example, ConocoPhillips' 10-K in 2022 summarizes the
"continued development of onshore assets" in the United States and new exploration activities in
Alaska, Canada, the North Sea, and elsewhere. Similarly, in November 2016, ConocoPhillips
announced a plan to generate \$5 billion to \$8 billion of proceeds over two years by optimizing its
business portfolio, including its fossil fuel product business, to focus on low cost-of-supply fossil
fuel production projects that strategically fit its development plans.

8 d. ConocoPhillips controls and has controlled group-wide decisions, including 9 those of its subsidiaries, related to marketing, advertising, climate change and greenhouse gas emissions from its fossil fuel products, and communications strategies concerning climate change 10 11 and the link between fossil fuel use and climate-related impacts on the environment and communities. For instance, ConocoPhillips's board has the highest level of direct responsibility 12 for climate change policy within the company. ConocoPhillips has developed and purportedly 13 14 implements a corporate Climate Change Action Plan to govern climate change decision-making across all entities in the ConocoPhillips group. 15

e. Defendant ConocoPhillips Company is a wholly owned subsidiary of
ConocoPhillips that acts on ConocoPhillips's behalf and is subject to ConocoPhillips's control.
ConocoPhillips Company is incorporated in Delaware, with its principal place of business in
Houston, Texas, and has been registered to do business in California since 1947. ConocoPhillips
Company was formerly known as, did or does business as, and/or is the successor in liability to
Phillips Petroleum Company.

f. Defendant Phillips 66 is a multinational energy and petrochemical
company incorporated in Delaware, with its principal place of business in Houston, Texas. It
encompasses downstream fossil fuel processing, refining, transport, and marketing segments that
were formerly owned and/or controlled by ConocoPhillips.

g. Defendant Phillips 66 Company is a wholly owned subsidiary of Phillips
66 that acts on Phillips 66's behalf and is subject to Phillips 66's control. Phillips 66 Company is
incorporated in Delaware, with its principal place of business in Houston, Texas, and has been

registered to do business in California since 2011. Phillips 66 Company had been registered since
1964 under a different name, Phillips Chemical Company, which was a wholly owned subsidiary
of the Phillips Petroleum Company. Phillips Chemical Company changed its name to Phillips 66
Company in 1985, and that iteration of Phillips 66 Company was terminated in 1991. Phillips 66
Company was formerly known as, did or does business as, and/or is the successor in liability to
Phillips Petroleum Company; Phillips Chemical Company; Conoco, Inc.; Tosco Corporation; and
Tosco Refining Co.

8 h. Defendants ConocoPhillips, ConocoPhillips Company, Phillips 66, and
9 Phillips 66 Company, as well as their predecessors, successors, parents, subsidiaries, affiliates, and
10 divisions, are collectively referred to herein as "ConocoPhillips."

i. Plaintiffs' claims against ConocoPhillips arise out of and are related to the
 acts and omissions of ConocoPhillips in California and elsewhere that caused and will cause
 injuries in California, including in Richmond.

14 į. ConocoPhillips has purposefully directed its tortious conduct toward California by distributing, marketing, advertising, promoting, and supplying its fossil fuel products 15 16 in California, with knowledge that the intended use of those products for combustion has caused and will continue to cause climate change-related harms in Richmond, including Plaintiffs' 17 injuries. ConocoPhillips's statements in California and elsewhere made in furtherance of its 18 19 campaign of deception about and denial of climate change, and ConocoPhillips's affirmative 20 promotion of its fossil fuel products as safe with knowledge of how the intended use of those products would cause climate change-related harms, were designed to conceal and mislead 21 22 consumers and the public, including Richmond and its residents, about the serious adverse 23 consequences that would result from continued use of ConocoPhillips's products. That conduct 24 was purposefully directed to reach Richmond and obscure the dangers of ConocoPhillips's fossil 25 fuel products from Richmond and its residents such that use of ConocoPhillips's fossil fuel products in Richmond would not decline. 26

k. Over the last several decades and continuing to the present day,
ConocoPhillips spent millions of dollars on radio, television, online, social media, and outdoor

advertisements in the California market related to its fossil fuel products. Since at least 1970, and 1 continuing to the present day, ConocoPhillips has advertised in print publications circulated widely 2 3 to California consumers, including but not limited to the following: The Atlantic, Life, National 4 Geographic, The New York Times, People, Sports Illustrated, Time, The Wall Street Journal, and 5 The Washington Post. As further detailed herein, these include advertisements containing false or misleading statements, misrepresentations, and/or material omissions obfuscating the connection 6 between the production and use of ConocoPhillips's fossil fuel products and climate change, 7 8 and/or misrepresenting ConocoPhillips's products or ConocoPhillips itself as environmentally 9 friendly.

1. Significant quantities of ConocoPhillips's fossil fuel products are or have 10 11 been transported, traded, distributed, promoted, marketed, manufactured, sold, and/or consumed in California, from which activities ConocoPhillips derives and has derived substantial revenue. 12 ConocoPhillips conducts and controls, either directly or through franchise agreements, retail fossil 13 14 fuel sales at gas station locations throughout California, at which locations it promotes, advertises, 15 and sells its fossil fuel products under its various brand names, including Conoco, Phillips 66, and 16 76. ConocoPhillips also markets and sells to California customers at retail outlets engine lubricants and motor oils under its Phillips 66, Kendall, and Red Line brand names. ConocoPhillips operates 17 hundreds of 76-branded petroleum service stations throughout California. During the period 18 19 relevant to this Complaint, ConocoPhillips sold a substantial percentage of all retail gasoline sold in California. 20

ConocoPhillips does substantial fossil fuel product-related business in 21 m. 22 California, and a substantial quantity of its fossil fuel products are extracted, refined, transported, 23 traded, distributed, marketed, and/or sold in California. For instance, ConocoPhillips owns and/or 24 operates oil and natural gas terminals in Richmond and Los Angeles, California; owns and operates 25 oil refineries in Arroyo Grande, Colton, and Wilmington, California; and distributes ConocoPhillips fossil fuel products throughout California. Phillips 66 also owns and operates oil 26 27 refineries in Rodeo, Santa Maria, and Los Angeles, California. All of these refineries were owned and operated by ConocoPhillips and its predecessors-in-interest from 1997 to 2012. 28

ConocoPhillips has historically directed its fossil fuel product advertising, 1 n. marketing, and promotional campaigns to California, including through maps identifying its 2 3 services throughout California. ConocoPhillips markets and advertises its fossil fuel products in 4 California to California residents by maintaining an interactive website available to prospective 5 customers by which it directs California residents to ConocoPhillips's nearby retail service stations. ConocoPhillips offers a proprietary credit card known as the "76 Credit Card," which 6 7 allows consumers in California to pay for gasoline and other products at 76-branded service 8 stations, and which encourages California consumers to use 76-branded service stations by 9 offering various rewards, including discounts on gasoline purchases at 76-branded service stations and cash rebates. ConocoPhillips further maintains a nationwide smartphone application known as 10 the "Fuel Forward App." The application offers California consumers a cashless payment method 11 for gasoline and other products at 76-branded service stations. California consumers utilize the 12 payment method by providing their credit card information through the application. California 13 14 consumers can also apply for a 76 Credit Card through the application. By registering their personal identifying information in the application and by using the application to identify and 15 16 activate gas pumps at 76-branded service stations, California consumers can receive additional rewards, such as further discounts on ConocoPhillips gasoline purchases. 17

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31. <u>Total Entities:</u> Total E&P USA Inc. and Total Specialties USA Inc.

a. Total E&P USA Inc. is a wholly owned subsidiary of Total S.A.—a French
energy conglomerate—engaged in the North American segment of Total SA's fossil fuel productsrelated business. Total E&P USA Inc. and its subsidiaries are involved in the exploration for,
extraction, transportation, research, and marketing of Total S.A.'s fossil fuel products. Total E&P
USA Inc. is registered to do business in the State of California and has designated an agent for
service of process in California.

b. Total Specialties USA Inc., is a wholly owned subsidiary of Total SA,
involved in the marketing and distribution of Total S.A.'s fossil fuel products. Total Specialties
USA Inc. is incorporated in the State of Delaware and headquartered in Houston, Texas. Total
Specialties USA Inc. is registered to do business in the State of California and has designated an

agent for service of process in California. Total Specialties USA Inc. does substantial fossil fuel
product-related business in California, and a substantial portion of its fossil fuel products are
extracted, refined, transported, traded, distributed, marketed, and/or sold in California. For
instance, Total Specialties USA Inc. maintains regular distributorship relationships with several
California distributors of Total fossil fuel products, including engine oils, lubricants, greases, and
industrial petroleum products.

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32. <u>Eni Entities:</u> Eni S.p.A and Eni Oil & Gas Inc.

8 a. Eni S.p.A. is a vertically integrated, multinational energy company 9 focusing on petroleum and natural gas. Eni is incorporated in the Republic of Italy, with its 10 principal place of business in Rome, Italy. With its consolidated subsidiaries, Eni engages in the 11 exploration, development, and production of hydrocarbons; in the supply and marketing of gas, 12 liquid natural gas, and power; in the refining and marketing of petroleum products; in the 13 production and marketing of basic petrochemicals, plastics and elastomers; in commodity trading; 14 and in electricity marketing and generation.

b. Eni Oil & Gas Inc. is incorporated in Texas, with its principal place of 15 16 business in Houston, Texas. Eni Oil & Gas Inc., is a wholly owned subsidiary of Eni America Ltd., a Delaware corporation doing business in the United States. Eni America, Ltd. Is a wholly owned 17 subsidiary of Eni UHL Ltd., a British corporation with its registered office in London, United 18 19 Kingdom. Eni UHL Ltd. is a wholly owned subsidiary of Eni ULT, Ltd., a British corporation with 20 its registered office on London, United Kingdom. Eni ULT, Ltd. is a wholly owned subsidiary of Eni Lasmo Plc, a British corporation with its registered office on London, United Kingdom. Eni 21 22 Investments Plc, a British corporation with its registered office in London, United Kingdom, holds 23 a 99.9% ownership interest in Eni Lasmo Plc (the other 0.01% ownership interest is held by another 24 Eni entity, Eni UK Ltd, a British corporation with its registered office in London, United 25 Kingdom). Eni S.p.A owns a 99.99% interest in Eni Investments Plc. Eni UK Ltd. holds the remainder interest in Eni Investments Plc. Collectively, these entities are referred to as "Eni." 26

27 c. Eni Oil & Gas Inc. is a successor-in-interest to Golden Eagle Refining
28 Company, Inc. ("Golden Eagle"). At times relevant to this complaint, Golden Eagle did substantial

fossil fuel-related business in California. Specifically, Golden Eagle owned and/or operated oil
 refineries in Carson (Los Angeles County) and Martinez (Contra Costa County), California, and
 owned and/or operated oil pipelines in or near Long Beach (Los Angeles County), California.

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33. <u>Anadarko Petroleum Corp. ("Anadarko")</u>

Anadarko is incorporated in the State of Delaware and maintains its 5 a. principal place of business in The Woodlands, Texas. Anadarko is a multinational, vertically 6 7 integrated energy company comprised of multiple upstream and downstream segments. These 8 include exploration, production, gathering, processing, treating, transporting, marketing, and 9 selling fossil fuel products derived primarily from petroleum and natural gas. In the United States, Anadarko entities operate fossil fuel product exploration and production concerns in Texas, the 10 11 Gulf of Mexico, Alaska, the Powder River Basin, Utah, Colorado, and the Marcellus Shale Formation. Anadarko operates fossil fuel product production and exploration activities 12 internationally in Algeria, Ghana, Mozambique, and Columbia, among others. Anadarko 13 14 Petroleum Corporation is registered to do business in California and has designated an agent for service of process in California. 15

b. 16 Anadarko Petroleum Corporation is a successor-in-interest to HS Resources Inc. ("HS"). HS was an energy company headquartered in San Francisco, San Francisco County, 17 18 California. It owned natural gas reserves in Colorado, North Dakota, South Dakota, Montana, and 19 along the coasts of Texas and Louisiana, which it extracted and imported to California. HS was acquired by Kerr-McGee Corporation in 2001. Kerr-McGee was an energy exploration and 20 production company owning oil and natural gas rights in the Gulf of Mexico, Colorado, and Utah, 21 22 with its corporate headquarters in Oklahoma. Anadarko Petroleum Corporation acquired Kerr-23 McGee Corporation in 2006.

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34. <u>Occidental Entities:</u> Occidental Petroleum Corporation and Occidental Chemical Corporation

a. Occidental Petroleum Corporation is a multinational, vertically
integrated energy and chemical company incorporated in the State of Delaware and with its
principal place of business in Houston, Texas. Occidental's operations consist of three segments:

1 (1) the exploration for, extraction of, and production of oil and natural gas products; (2) the manufacture and marketing of chemicals and vinyls; and (3) processing, transport, storage, 2 3 purchase, and marketing of oil, natural gas, and power. Occidental Petroleum Corporation is 4 registered to do business in the State of California and has designated an agent for service of process in the State of California. 5

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b. Occidental Chemical Corporation, a manufacturer and marketer of petrochemicals, such as polyvinyl chloride resins, is a wholly owned subsidiary of Occidental 7 8 Petroleum Corporation. Occidental Chemical Corporation is registered to do business in the State 9 of California and has designated an agent for service of process in the State of California.

c. Defendants Occidental Petroleum Corporation and Occidental Chemical 10 Corporation are collectively referred to as "Occidental." 11

d. Occidental does substantial fossil fuel product-related business in the State 12 of California, and a substantial portion of its fossil fuel products are extracted, refined, transported, 13 14 traded, distributed, marketed and/or sold in California. For instance, Occidental extracted and transported its fossil fuel products from approximately 30,900 drilling locations within the San 15 16 Joaquin, Los Angeles, Ventura, and Sacramento Basins in California.

In addition, Occidental conducts has conducted substantial activities in the 17 e. state, including marketing and promotion; efforts to avoid or minimize regulation of greenhouse 18 19 gas pollution in and from California; and efforts to influence statutory and regulatory debate 20 regarding fossil fuel consumption, electric power distribution, and greenhouse gas pollution policies such that the exercise of jurisdiction comports with traditional notions of fair play and 21 substantial justice. Since 1999, Occidental Petroleum Corp. and its subsidiaries have reported more 22 23 than \$4.6 million in lobbying expenditures directed at numerous statutory and regulatory proposals 24 before the California legislature and executive agencies, including the California Energy 25 Commission, California Air Resources Board, and California Public Utilities Commission, related to its fossil fuel products business. 26

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35. Repsol Entities: Repsol S.A., Repsol Energy North America Corporation, and 2 **Repsol Trading USA Corporation**

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Repsol S.A. is a vertically integrated, multinational global energy company, a. 4 incorporated in the Kingdom of Spain, with its principal place of business in Madrid, Spain. Repsol 5 is involved in multiple aspects of the fossil fuel industry, including exploration, production, marketing, and trading. Repsol engages in significant fossil fuel exploration and production 6 activities in the United States, including in the Gulf of Mexico, the Marcellus Shale in 7 8 Pennsylvania, the Eagle Ford Shale in South Texas, the Mississippi Lime in Oklahoma and Kansas, 9 the North Slope in Alaska, and the Trenton-Black River in New York

b. Repsol does substantial fossil fuel product-related business in the State of 10 11 California, and a substantial portion of its fossil fuel products are extracted, refined, transported, traded, distributed, marketed and/or sold in California. For instance, Repsol subsidiary Repsol 12 **Energy North America Corporation**, incorporated in the State of Texas and with its principal 13 14 place of business in The Woodlands, Texas, is listed as a natural gas procurement, storage, transportation, scheduling, and risk management provider by Pacific Gas and Electric, a California 15 16 utility. Repsol Energy North America Corporation is registered to do business in California and has designated an agent for service of process in California. Repsol subsidiary Repsol Trading 17 18 **USA Corporation**, incorporated in the State of Texas and with its principal place of business in 19 The Woodlands, Texas, is also registered do business in California and has designated an agent 20 for service of process in California. Additionally, Repsol represents on its website that it is engaging in strategic opportunities involving its fossil fuel products in California, which may 21 22 consist of crude oil, gasoline, diesel, and/or jet fuel.

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36. Marathon Entities: Marathon Oil Company, Marathon Oil Corporation, and **Marathon Petroleum Corporation**

25 a. Marathon Oil Company is an energy company incorporated in the State 26 of Ohio and with its principal place of business in Houston, Texas. Marathon Oil Company is 27 registered to do business in California and has designated an agent for service of process in California. Marathon Oil Company is a corporate ancestor of Marathon Oil Corporation and 28

1 Marathon Petroleum Company.

b. Marathon Oil Company is a successor-in-interest to Husky Oil Ltd.
("Husky"), which it acquired in 1984. During times relevant to this Complaint, Husky operated oil
production facilities near Santa Maria (Santa Barbara County), California, where it produced
nearly 1,100 barrels per day. During the period relevant to this litigation, Husky did substantial
fossil fuel product-related business in California.

c. Marathon Oil Corporation is a multinational energy company
incorporated in the State of Delaware and with its principal place of business in Houston, Texas.
Marathon Oil Corporation consists of multiple subsidiaries and affiliates involved in the
exploration for, extraction, production, and marketing of fossil fuel products.

d. Marathon Petroleum Corporation is a multinational energy company
incorporated in Delaware and with its principal place of business in Findlay, Ohio. Marathon
Petroleum Corporation was spun off from the operations of Marathon Oil Corporation in 2011. It
consists of multiple subsidiaries and affiliates involved in fossil fuel product refining, marketing,
retail, and transport, including both petroleum and natural gas products.

- 16 e. Defendants Marathon Oil Company, Marathon Oil Corporation, and
 17 Marathon Petroleum Corporation are collectively referred to as "Marathon."
- f. Marathon has purposefully directed its tortious conduct toward California
 by distributing, marketing, advertising, promoting, and supplying its fossil fuel products in
 California, with knowledge that the intended use of those products for combustion has caused and
 will continue to cause climate change-related harms in Richmond, including Plaintiffs' injuries.
 That conduct was purposefully directed to reach Richmond and obscure the dangers of Marathon's
 fossil fuel products from Richmond and its residents such that the use of Marathon's fossil fuel
 products in Richmond would not decline.
- 25

37. Hess Corporation ("Hess")

a. Hess is a global, vertically integrated petroleum exploration and extraction
company incorporated in the State of Delaware with its headquarters and principal place of
business in New York, New York.

LP	FIRST AMENDED COMPLAINT 35
28	business in California. Specifically, this included owning and operating a petroleum refinery in
27	Company ("Pauley"). At times relevant to this complaint, Pauley did substantial fossil-fuel related
26	c. Devon Energy Corp. is a successor-in-interest to the Pauley Petroleum
25	California.
24	process in California. Devon Energy does substantial fossil fuel product-related business in
23	registered to do business in the State of California and with a designated agent for service of
22	b. Devon Energy Production Company, L.P. is a Devon subsidiary
21	production, and marketing of its fossil fuel products.
20	engaged in multiple aspects of the fossil fuel industry, including exploration, development,
19	Delaware and maintains its principal place of business in Oklahoma City, Oklahoma. Devon is
18	exploration, development, and production of oil, and natural gas. It is incorporated in the State of
17	a. Devon Energy Corp. is an independent energy company engaged in the
16	Company, L.P.
15	38. <u>Devon Energy Entities:</u> Devon Energy Corp. and Devon Energy Production
14	Richmond would not decline.
13	fuel products from Richmond and its residents such that the use of Hess's fossil fuel products in
12	conduct was purposefully directed to reach Richmond and obscure the dangers of Hess's fossil
11	continue to cause climate change-related harms in Richmond, including Plaintiffs' injuries. That
10	with knowledge that the intended use of those products for combustion has caused and will
9	distributing, marketing, advertising, promoting, and supplying its fossil fuel products in California,
8	c. Hess has purposefully directed its tortious conduct toward California by
7	Hess also operated oil refineries in the continental United States and U.S. Virgin Islands.
6	the United States, including in California during times relevant to this complaint. Prior to 2013,
5	name and through subsidiaries. Hess owned and operated more than 1,000 gas stations throughout
4	Thailand, and Norway. Prior to 2014, Hess also conducted extensive retail operations in its own
3	operations are located primarily in the United States, Denmark, Equatorial Guinea, Malaysia,
2	transportation, purchase, marketing, and sale of crude oil and natural gas. Its oil and gas production
1	b. Hess is engaged in the exploration, development, production,

Newhall (Los Angeles County), California from 1959 to 1989, and a refinery in Wilmington (Los
 Angeles, Los Angeles County), California from 1988 to 1992. Pauley merged with Hondo Oil and
 Gas Co. ("Hondo") in 1987. Subsequently, Devon Energy Corp. acquired Hondo in 1992.

4 d. Defendants Devon Energy Production Company, L.P. and Devon Energy
5 Corp. are collectively referred to as "Devon."

6

39. Encana Corporation ("Encana")

a. Encana is a Canadian corporation with its principal place of business in
Calgary, Alberta, Canada. Encana is an extractor and marketer of oil and natural gas and has
facilities including gas plants and gas wells in Colorado, Texas, Wyoming, Louisiana, and
New Mexico. By approximately 2005, Encana was the largest independent owner and operator of
natural gas storage facilities in North America.

b. Encana has done and continues to do substantial fossil fuel product-related
business in California. Between 1997 and 2006, Encana owned and operated the Wild Goose
Storage underground natural gas storage facility in Butte County, California. In 2003, Encana
began transporting natural gas through a 25-mile pipeline from the Wild Goose Station to a Pacific
Gas & Electric Co. ("PG&E") compressor station in Colusa County, where gas entered the main
PG&E pipeline. Encana invested in a 100 billion cubic foot expansion of the facility in 2004,
bringing gas storage capacity at Wild Goose to 24 billion cubic feet.

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40. Apache Corporation ("Apache")

a. Apache is a publicly traded Delaware corporation with its principal place of
business in Houston, Texas. Apache is an oil and gas exploration and production company, with
crude oil and natural gas exploration and extraction operations in the United States, Canada, Egypt,
and in the North Sea.

b. During the time at issue, Apache extracted natural gas from wells developed
on approximately seven million acres of land held in the Canadian provinces of British Columbia,
Alberta, and Saskatchewan, and Apache did substantial fossil fuel product-related business in
California. Apache transported a substantial volume of the natural gas extracted from its Canadian
holdings to California, where it sold that gas to electric utilities, end-users, other fossil fuel

companies, supply aggregators, and other fossil fuel marketers. Apache directed sales of its natural
 gas to California in addition to markets in Washington state, Chicago, and western Canada, to
 intentionally retain a diverse customer base and maximize profits from the differential price rates
 and demand levels in those respective markets.

5

Doe Defendants

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6 41. The true names and capacities, whether individual, corporate, associate, or
7 otherwise of Defendants Does 1 through 100, inclusive, are unknown to Plaintiffs, who therefore
8 sue said Defendants by such fictitious names pursuant to California Code of Civil Procedure
9 Section 474. Plaintiffs are informed and believe, and on that basis allege, that each of the
10 fictitiously named Defendants is responsible in some manner for the acts and occurrences herein
11 alleged, and that Plaintiffs' damages were caused by such Defendants.

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D. Relevant Non-Parties: Defendants' Agents and Front Groups

42. As detailed below, each Defendant had actual knowledge, or should have known,
that its fossil fuel products were hazardous because the intended use of the fossil fuel products for
combustion would substantially contribute to climate change and result in harms to Plaintiffs.
Defendants obtained knowledge of the hazards of their products independently and through their
membership and involvement in trade associations.

18 43. Defendants employed, financed, and participated in several industry-created front 19 groups to serve their mission of flooding the markets with climate change disinformation and 20 denialism. These organizations, acting on behalf of and under Defendants' supervision and control, 21 assisted the deception campaign by implementing public advertising and outreach campaigns to 22 discredit climate science, as well as funding scientists to cast doubt upon climate science and upon 23 the extent to which climate change is caused by human activity. In sum, Defendants, through their 24 front groups, engaged in a significant marketing campaign that misrepresented and concealed the 25 dangers of their fossil fuel products with the aim of protecting or enhancing sales of these products 26 to consumers, including consumers in California. Defendants actively supervised, facilitated, 27 consented to, and/or directly participated in the misleading messaging of these front groups, from 28 which Defendants profited significantly, including in the form of increased sales in California.

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44.

The American Petroleum Institute (API)

a. API is a national trade association representing the oil and gas industry,
formed in 1919. With more than 600 members, API is the country's largest oil trade association.
API's purpose is to advance its members' collective business interests, which includes increasing
consumer consumption of oil and gas for the financial profit of Defendants and other oil and gas
companies. Among other functions, API also coordinates members of the petroleum industry,
gathers information of interest to the industry, and disseminates that information to its members.

8 b. Acting on behalf of and under the supervision and control of Defendants, 9 API has, since at least 1988, participated in and led several coalitions, front groups, and organizations that have promoted disinformation about the climate impacts of fossil fuel products 10 11 to consumers—including, but not limited to, the Global Climate Coalition, Partnership for a Better Energy Future, Coalition for American Jobs, Alliance for Energy and Economic Growth, and 12 Alliance for Climate Strategies. These front groups were formed to promote climate disinformation 13 14 and advocacy from a purportedly objective source, when in fact these groups were financed and 15 controlled by Defendants and other oil and gas companies. Defendants have benefited from the 16 spread of this disinformation because, among other things, it has ensured a thriving consumer market for oil and gas, resulting in substantial profits for Defendants. In effect, API acts and has 17 18 acted as a marketing arm for its member companies, including Defendants. Over the last several 19 decades, API has spent millions of dollars on television, newspaper, radio, social media, and 20 internet advertisements in the California market.

Member companies participate in API strategy, governance, and operation

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c.

boards, committees, and task forces. Defendants have collectively steered the policies and trade
practices of API through membership, Executive Committee roles, and/or providing budgetary
funding for API. Defendants have used their control over and involvement in API to develop and
execute a long-term advertising and communications campaign centered on climate change
denialism. The goal of the campaign was to influence consumer demand for Defendants' fossil
fuel products. Defendants directly controlled, supervised, and participated in API's misleading

through their membership dues and by contributing company officers and other personnel to API

messaging regarding climate change. That conduct directly impacted California, as Defendants
 worked with API to create and disseminate misleading advertisements that promote consumption
 of fossil fuel products in California.

d. The following Defendants and/or their predecessors in interest are and/or 4 5 have been API members at times relevant to this litigation: Chevron, ExxonMobil, Shell, ConocoPhillips, Anadarko, Occidental, Repsol, Marathon, EnCana, BP, Citgo, Hess, and Apache. 6 Each of these Defendants consistently holds API leadership positions, participates in API 7 8 committees and task forces formed to address climate change issues, makes decisions that 9 determine API's conduct, and works with other Defendants to achieve these ends. Their control of and leadership roles in API are longstanding, deeply rooted, and continuous throughout relevant 10 11 time periods.

For example, Defendants served as corporate officers during the relevant 12 e. time period, including executives from Exxon, Shell, Chevron, ConocoPhillips, Marathon, Hess 13 14 and BP serving as API Board Chairman and on the Board's Executive Committee. Exxon's CEO served on API's Executive Committee, including as President and Chairman, for 21 of the 29 years 15 between 1991 and 2020.¹² Multiple high-level executives from Exxon, such as Presidents, Vice 16 Presidents, CEOs, COOs, and Chairmen, served on API's Board in each year between 1994–2002. 17 BP's CEO served as API's Chairman in 1988, 1989, and 1998. Multiple high-level executives 18 19 from BP served on API's Board of Directors between 1994–2002. The Chairman and CEO of BP's 20 predecessor ARCO served as API treasurer in 1998 and Chairman in 1999. Chevron's CEO served as API Chairman in 1994, 1995, 1997, 1998, 2003, and 2012. In 2002, Chevron's CEO served as 21 API treasurer. Chairman and CEO of Chevron's predecessor Texaco served as API Board 22 23 Chairman in 2001, and as treasurer in 1999. Multiple high-level executives from Chevron served 24 on API's Board of Directors in each year between 1994-2002. Shell's President served as API 25 treasurer in 1997 and sat on the Board's Executive Committee from at least 2005–2006. Multiple high-level Shell executives served on API's Board of Directors between 1994–2002. 26

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¹² 1991, 1996–1997, 2001, 2002, 2003, 2005–2016, 2018–2020.

1 ConocoPhillips Chairman and CEO was API Chairman from 2016–2018, and currently serves on API's Executive Committee. In 2020, API elected Phillips 66 Chairman and CEO to serve a two-2 3 year term as its Board President, and Phillips 66's current President and CEO is on the API Board's 4 Executive Committee. Multiple high-level ConocoPhillips executives served on API's Board of 5 Directors between 1994–2002. Marathon or its predecessors' CEOs served on the API Board's Executive Committee across multiple decades, for example Marathon's then-CEO was Treasurer 6 7 and testified to Congress on behalf of API in 1994. Multiple high-level executives from Marathon 8 served on API's Board of Directors between 1994–2002. Multiple CITGO high-level executives 9 served on API's Board of Directors between 1995–2002. Hess high-level executives served on API's Board of Directors in 1994 and 1995; and Hess' CEO currently serves on the API Board's 10 Executive Committee and served on API's Board of Directors from at least 2015 to 2021. Multiple 11 high-level executives from Occidental served on API's Board of Directors between 1994–2002. 12 Anadarko or its predecessors' high-level executives served on API's Board of Directors between 13 14 1994-2002. Anadarko's then-President and COO served on API's Executive Committee as treasurer in 2001. 15

f Relevant information was shared among API and Defendants and 16 Defendants' predecessors-in-interest through the following: (1) API's distribution of information 17 to its members, and/or (2) participation of Defendants' officers and other personnel, and those of 18 19 Defendants' predecessors-in-interest, on API boards, committees, and task forces. This includes representatives of Exxon, Chevron, BP, Shell, and ConocoPhillips sitting on both API's 20 Committee for Air and Water Conservation and a special advisory group to API's Committee for 21 Public Affairs, which worked together to develop research reports on air emissions and other 22 environmental topics. Different representatives of Exxon, Chevron, BP, Shell, ConocoPhillips, and 23 24 Marathon rotated in and out of these positions throughout the time periods discussed in this 25 Complaint. Representatives from Marathon sat on the Executive Committee to API's Engineering and Technical Research Committee and on the Committee for Air and Water Conservation. 26 Representatives from Chevron and Exxon chaired API's Engineering and Technical Research 27 Committee, and representatives from BP and Exxon chaired API's Health and Biological Research 28

Committee, also developing research documents. Different representatives of Exxon, Chevron,
 BP, Shell and ConocoPhillips rotated in and out of these positions throughout the time periods
 discussed in this Complaint.¹³

4 45. <u>The Information Council for the Environment (ICE)</u> was formed by coal
5 companies and their allies, including Western Fuels Association and the National Coal
6 Association. Associated companies included Pittsburg and Midway Coal Mining (Chevron).¹⁴

46. The Global Climate Coalition (GCC) was an industry group formed to preserve 7 8 and expand consumer demand for fossil fuels by publicly casting doubt on climate science and 9 opposing greenhouse gas emission reduction initiatives. The GCC was founded in 1989 in reaction to the first meeting of the Intergovernmental Panel on Climate Change (IPCC), the United Nations 10 body for assessing the science related to climate change, and to NASA scientist James Hansen's 11 presentation to the Senate Committee on Energy and Natural Resources, in which Hansen 12 emphasized that climate change was already happening and would lead to dire consequences if left 13 14 unaddressed. The GCC disbanded in or around 2001. Founding members included API, Shell Oil Company (currently, Shell); Texaco, Inc. (currently, Chevron); Amoco (currently, BP); ARCO 15 (owned by BP at the time); and Phillips Petroleum Company (currently, ConocoPhillips). GCC 16 board membership during its existence included high-level executives from the founding members 17 and Chevron, Exxon, and Mobil (Exxon). Tom Lambrix, director of government relations for 18 19 Phillips Petroleum, was the first chairman of the GCC. Exxon was also a corporate member of the GCC over the course of the GCC's existence. 20

21 III. AGENCY

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- ²⁵ ¹³ American Petroleum Institute, Comm. For Air and Water Conservation & Comm. On Public
 ²⁶ ¹³ Affairs, <u>Environmental Research: A Status Report</u> (1972) (listing members of relevant

partner, aider and abettor, co-conspirator, and/or joint venturer of each of the remaining

At all times herein mentioned, each of the Defendants was the agent, servant,

- committees and their fossil fuel company affiliations),
 https://files.eric.ed.gov/fulltext/ED066339.pdf.
- ¹⁴ Hereinafter, parenthetical references to Defendants indicate corporate ancestry and/or affiliation.

1 Defendants herein and was at all times operating and acting within the purpose and scope of said agency, service, employment, partnership, conspiracy, and joint venture and rendered substantial 2 3 assistance and encouragement to the other Defendants, knowing that their conduct was wrongful 4 and/or constituted a breach of duty.

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IV. JURISDICTION AND VENUE

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48. This Court's personal jurisdiction over Defendants named herein is proper because each Defendant maintains substantial contacts with California by and through their fossil fuel 7 8 business operations in this state, as described above, and because Plaintiffs' injuries described 9 herein arose out of and relate to those operations and occurred in California. Each Defendant purposefully availed itself of the California market, and thus of the benefits of the laws of the State, 10 during all times relevant to this Complaint, so as to render California courts' exercise of 11 jurisdiction over each Defendant consistent with traditional notions of fair play and substantial 12 justice. Each Defendant researched, developed, manufactured, designed, marketed, distributed, 13 14 released, promoted, and/or otherwise sold its fossil fuel products in markets around the United States, including within California. 15

Additionally, jurisdiction is proper over each non-resident Defendant for the 49. 16 following reasons: 17

With respect to its subsidiaries, each non-resident Defendant controls and 18 a. 19 has controlled its direct and indirect subsidiaries' decisions about the quantity and extent of its 20 fossil fuel production and sales; determines whether and to what extent to market, produce, and/or distribute its fossil fuel products; and controls and has controlled its direct and indirect 21 22 subsidiaries' decisions related to its marketing and advertising, specifically communications 23 strategies concerning climate change and the link between fossil fuel use and impacts on the 24 environment. Each subsidiary Defendant is the agent of its parent Defendant. As agents, the subsidiaries of each non-resident Defendant conducted activities in California at the direction and 25 for the benefit of its parent company. Specifically, the subsidiaries furthered each parent 26 27 company's campaign of deception and denial through misrepresentations, omissions, and affirmative promotion of the company's fossil fuel products as safe with knowledge of the climate 28

change-related harms that would result from the intended use of those products, all of which
 resulted in climate change-related injuries in Richmond and increased sales to the parent company.
 The subsidiaries' jurisdictional activities are properly attributed to each parent company and serve
 as a basis to assert jurisdiction over each of the non-resident Defendant parent companies.

b. Through their various agreements with dealers, franchises, or otherwise, the
Defendants direct and control the branding, marketing, sales, promotions, image development,
signage, and advertising of their branded fossil fuel products at their respectively branded gas
stations in California, including point-of-sale advertising and marketing. The Defendants dictate
which grades and formulations of their gasoline may be sold at their respectively branded stations.

Defendants, in coordination with API and other organizations, conspired to 10 c. 11 conceal and misrepresent the known dangers of burning fossil fuels, to knowingly withhold material information regarding the consequences of using fossil fuel products, to spread knowingly 12 false and misleading information to the public regarding the weight of climate science research, 13 14 and to promote their fossil fuel products which they knew were harmful. Through their own actions 15 and through their membership and participation in climate denialist front groups, API and each 16 Defendant were and are members of that conspiracy. Defendants committed substantial acts to further the conspiracy in California by making misrepresentations and misleading omissions to 17 California consumers about the existence, causes, and effects of global warming; by affirmatively 18 19 promoting the Defendants' fossil fuel products as safe, with knowledge of the disastrous impacts that would result from the intended use of those products; and by failing to warn California 20 consumers about the disastrous impacts of fossil fuel use. A substantial effect of the conspiracy 21 22 has also and will also occur in Richmond, as the City and its residents have suffered and will suffer 23 injuries from Defendants' wrongful conduct, including but not limited to the following: sea level 24 rise, massive storms, flooding, extreme heat, reduced air quality, and other social and economic 25 consequences of these environmental changes. Defendants knew or should have known based on information provided to them from their internal research divisions, affiliates, trade associations, 26 and industry groups that their actions in California and elsewhere would result in these injuries in 27 and to Richmond and its residents. Finally, the climate effects described herein are direct and 28

1 || foreseeable results of Defendants' conduct in furtherance of the conspiracy.

2

50. The Superior Court of California for Contra Costa County is a court of general jurisdiction and therefore has subject matter jurisdiction over this action.

3

4 51. Venue is proper in Contra Costa County pursuant to Code of Civil Procedure
5 sections 395 and 395.5 because the injury giving rise to the City's claims occurred in Contra Costa
6 County. Defendants have contributed to the creation of a public nuisance in Richmond, and the
7 Richmond City Attorney has the right and authority to seek abatement of that nuisance on behalf
8 of the People of the State of California. Injuries Richmond has suffered personally have also
9 occurred within Contra Costa County.

52. Additionally, venue is also proper in San Francisco County for pre-trial purposes
pursuant to the February 5, 2024 order from Judge Treat in Contra Costa Superior Court and
February 9, 2024 order from the Judicial Council of California. Those orders coordinated this and
other actions into JCCP 5310, Fuel Industry Climate Cases, in San Francisco County.

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V.

FACTUAL BACKGROUND

A. Global Warming—Observed Effects and Known Cause

53. The Earth is warming at a rate unprecedented in human history.

54. The Earth's atmosphere is warming, sea level is rising, snow and ice cover is 17 diminishing, oceans are warming and acidifying, and hydrologic systems have been altered, among 18 19 other rapidly accelerating changes to our climate. These changes are directly harming people's 20 health, lives, lifestyles, and livelihoods, including in Richmond. According to the IPCC, the evidence that humans are causing this warming of the Earth is unequivocal.¹⁵ Greenhouse gas 21 emissions caused by human activities are the most significant drivers of climate change.¹⁶ Over 22 the past couple of decades, those emission rates have exceeded those predicted under previous 23 24 "worst case" global emissions scenarios.

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¹⁵ <u>Climate Change 2021: The Physical Science Basis</u>, THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE, at v, 4, 41, 63, 150, 425, 506 (2021), https://report.ipcc.ch/ar6/wg1/IPCC_AR6_WGI_FullReport.pdf.

28 $16 \frac{16}{\text{Id.}}$ at 41.

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1	55. Greenhouse gases are largely byproducts of human combustion of fossil fuels to
2	produce energy and use of fossil fuels to create petrochemical products. While there are several
3	greenhouse gases contributing to climate change, CO ₂ is the primary greenhouse gas emitted as a
4	result of human activities.

5 56. Atmospheric and ocean temperatures have both increased substantially since the
6 beginning of the global industrial revolution, and the rate of warming has also dramatically
7 increased since the end of World War II.

8 57. In the geological short term, ocean and land surface temperatures have increased at
9 a rapid pace during the late 20th and early 21st centuries:

10 58. 2023 was the hottest year on record by globally averaged surface temperatures,
11 exceeding mid-20th century mean ocean and land surface temperatures by approximately 2.12° F.
12 Each month in 2023 was hotter by globally averaged surface temperatures than those respective
13 months in any previous year. June, July, August, September, October, November and December
14 2023 were all the hottest average surface temperatures for those months.¹⁷

15 59. The second hottest year on record by globally averaged surface temperatures was
16 2016, and the third hottest was 2020.¹⁸

17 60. The ten hottest years on record by globally averaged surface temperature have all
18 occurred since 2014.¹⁹

19 61. The average global surface and ocean temperature in 2023 was approximately
20 2.12° F warmer than the 20th century baseline, which is the greatest positive anomaly observed
21 since at least 1850.²⁰ The increase in hotter temperatures and more frequent positive anomalies
22 during the Great Acceleration is occurring both globally and locally, including in Richmond. The

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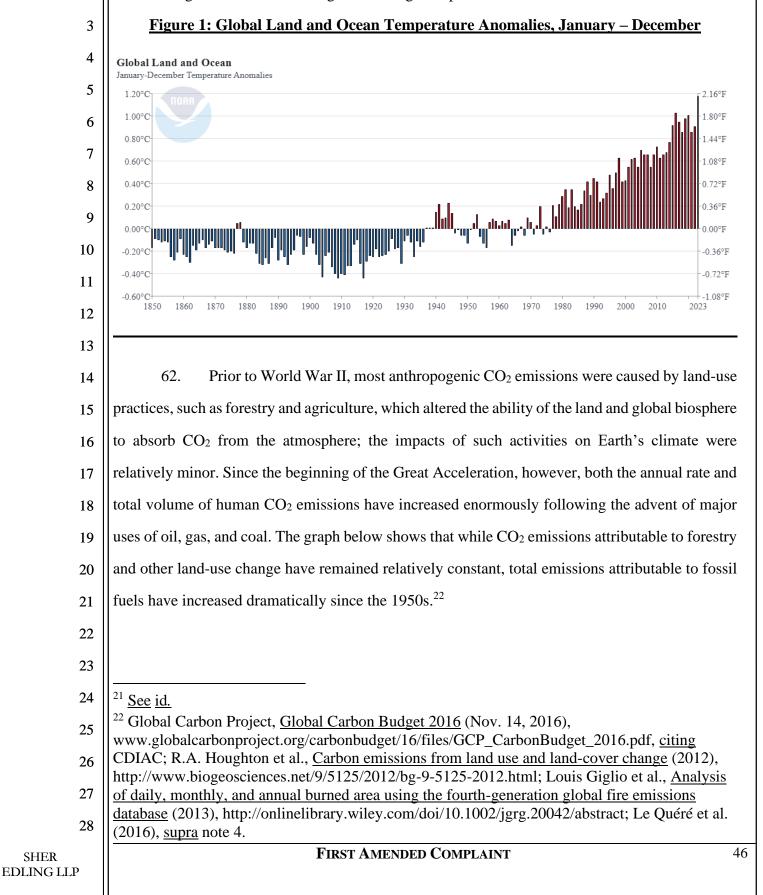
¹⁹ Id.

²⁰ Id.

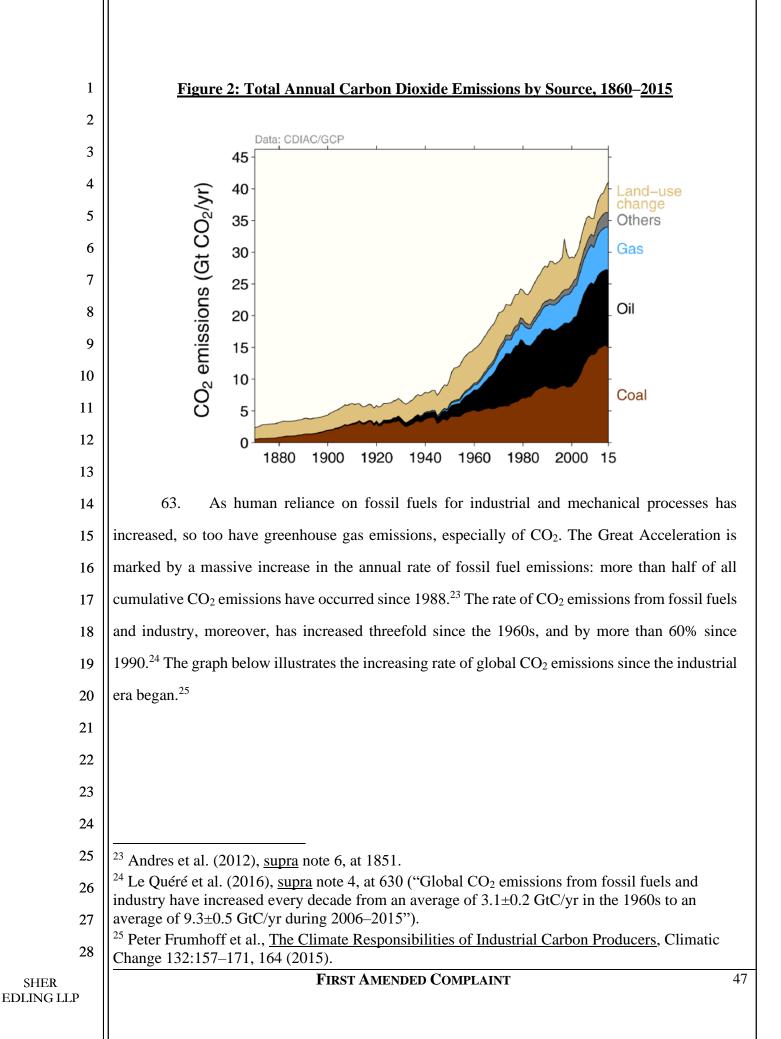
¹⁷ NOAA National Center for Environmental Information, NOAA, <u>Annual 2023 Global Climate</u>
 <u>Report</u> (Jan. 2024), https://www.ncei.noaa.gov/access/monitoring/monthly-report/global/202313.
 ¹⁸ Id.

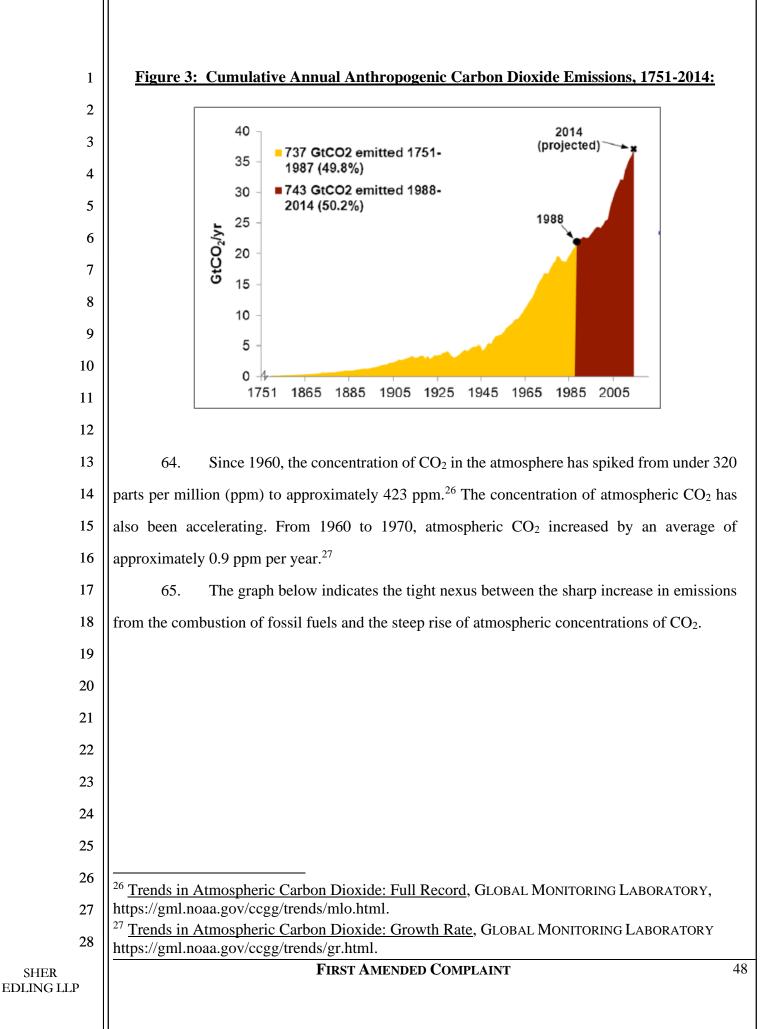
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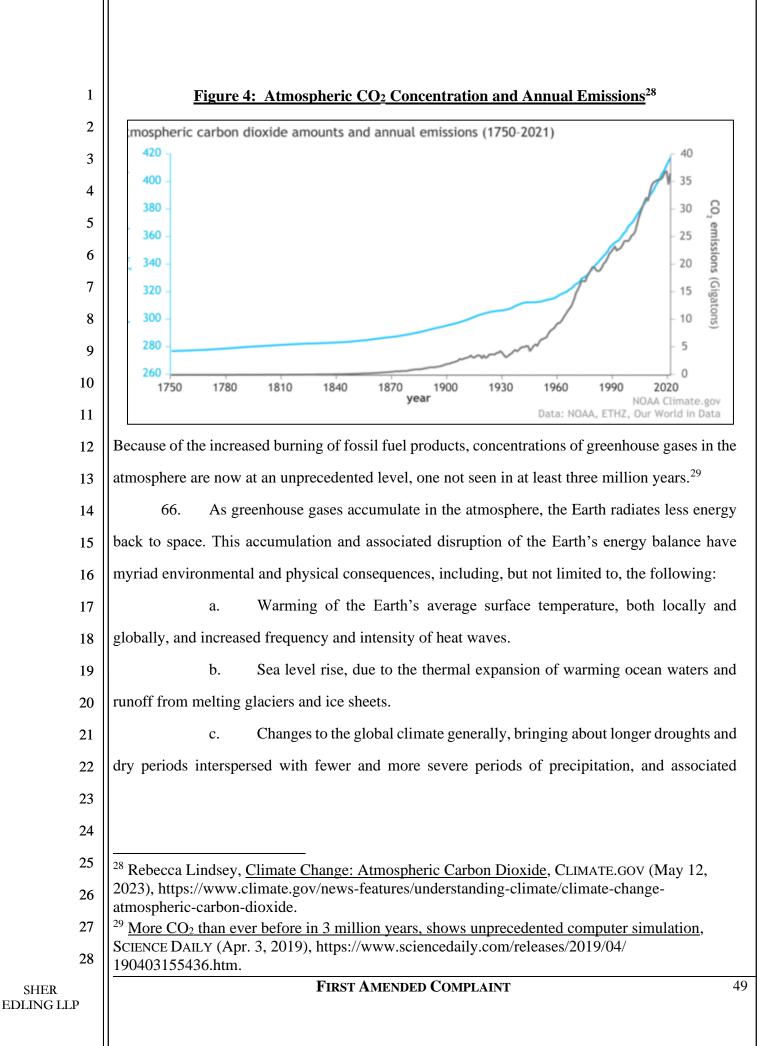
graph below shows the increase in global land and ocean temperature anomalies since 1850, as 1 measured against the 1901–2000 global average temperature.²¹ 2



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impacts to the quantity and quality of water resources available to both human and ecological
 systems.

d. Increased frequency and intensity of extreme weather events due to
increases in evaporation, evapotranspiration, and precipitation, a consequence of the warming
atmosphere's increased ability to hold moisture.

e. Adverse impacts on human health associated with extreme weather,
extreme heat, worsening air quality, and vector-borne illnesses.

8 f. Flooding and inundation of land and infrastructure, increased erosion,
9 higher wave run-up and tides, increased frequency and severity of storm surges, saltwater
10 intrusion, and other impacts of higher sea levels.

g. Ocean acidification, primarily due to the increased uptake of atmospheric
carbon dioxide by the oceans.

h. Changes to terrestrial and marine ecosystems, and consequent impacts on
the populations and ranges of flora and fauna.

B. Defendants Went to Great Lengths to Understand, and Either Knew or Should Have Known the Dangers Associated With Their Fossil Fuel Products.

67. For decades, Defendants have known that their fossil fuel products pose risks of 17 "severe" and even "catastrophic" impacts on the global climate through the work and warnings of 18 their own scientists and/or through trade associations such as API. Defendants consistently 19 researched or funded research into significant issues relevant to fossil fuels, and were aware of 20 significant scientific reports on climate change science and impacts at the time they were issued. 21 Thus, Defendants developed a sophisticated understanding of climate change that far exceeded the 22 knowledge of the public, ordinary consumers, and Plaintiffs. Yet each Defendant decided to 23 continue its conduct and commit itself to massive fossil fuel promotion. This was a deliberate 24 decision to place company profits ahead of human safety and well-being, and to foist onto the 25 public the costs of abating and adapting to the public nuisance of global warming. 26

27 68. Although concealed at the time, the industry's knowledge was later uncovered
28 by journalists at <u>Inside Climate News</u> and the <u>Los Angeles Times</u>, among others. In 1954,

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geochemist Harrison Brown and his colleagues at the California Institute of Technology wrote 1 2 to API, informing the trade association that preliminary measurements of natural archives 3 of carbon in tree rings indicated that fossil fuels had caused atmospheric carbon dioxide levels to increase by about 5% since 1840.³⁰ API provided those scientists funding for various 4 research projects, and measurements of carbon dioxide continued for at least one year and 5 possibly longer, although the results were never published or otherwise made available to the 6 public.³¹ In 1957, H.R. Brannon of Humble Oil Company (predecessor-in-interest to Exxon) 7 measured an increase in atmospheric carbon dioxide attributable to fossil fuels, similar to-and 8 in agreement with—that measured by Harrison Brown.³² 9

69. In 1959, API organized a centennial celebration of the American oil industry at 10 Columbia University in New York City.³³ High-level representatives of Defendants were in 11 attendance. One of the keynote speakers was nuclear physicist Edward Teller. Teller warned the 12 industry that "a temperature rise corresponding to a 10[%] increase in carbon dioxide will be 13 sufficient to melt the icecap and submerge . . . [a]ll the coastal cities." Teller added that since "a 14 considerable percentage of the human race lives in coastal regions, I think that this chemical 15 contamination is more serious than most people tend to believe."³⁴ Following his speech, Teller 16 17 was asked to "summarize briefly the danger from increased carbon dioxide content in the atmosphere in this century." He responded that "there is a possibility the icecaps will start melting 18 and the level of the oceans will begin to rise."35 19

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- 22 $|_{30}$ See Benjamin Franta, Early Oil Industry Knowledge of CO₂ and Global Warming, 8 Nature Climate Change 1024, 1024–25 (2018).
- 23 3¹ <u>Id.</u>
- ³² Id.; H.R. Brannon, Jr. et al., <u>Radiocarbon Evidence on the Dilution of Atmospheric and</u> Oceanic Carbon by Carbon from Fossil Fuels, 38 Am. Geophysical Union Transactions 643, 644–46 (1957).
- 26 ³³ <u>See</u> Allan Nevins & Robert G. Dunlop, <u>Energy and Man: A Symposium</u> (Appleton-Century-Crofts, New York 1960); <u>see also</u> Franta, <u>supra</u> note 30, at 1024–25.
- 27 ³⁴ Edward Teller, <u>Energy Patterns of the Future, in Energy and Man: A Symposium</u>, at 53–72 (1960).
 28 ³⁵ Edward Teller, <u>50</u>
 - 1^{35} <u>Id.</u> at 70.

70. In 1965, the president of API, Frank Ikard, relayed the findings of a recent report 1 2 to leaders of the fossil fuel industry at API's annual meeting, saying, "[o]ne of the most important 3 predictions of the report is that carbon dioxide is being added to the earth's atmosphere by the 4 burning of coal, oil, and natural gas at such a rate that by the year 2000 the heat balance will be so modified as possibly to cause marked changes in climate beyond local or even national efforts," 5 and quoting the report's finding that "the pollution from internal combustion engines is so serious, 6 and is growing so fast, that an alternative nonpolluting means of powering automobiles, buses, and 7 trucks is likely to become a national necessity."³⁶ 8

9 71. Thus, by 1965, Defendants and their predecessors-in-interest were aware that the
10 scientific community had found that fossil fuel products, if used profligately, would cause global
11 warming by the end of the century, and that such global warming would have wide-ranging and
12 costly consequences.

72. By 1965, concern about the risks of anthropogenic greenhouse gas emissions 13 14 reached the highest level of the United States' scientific community. In that year, President Lyndon B. Johnson's Science Advisory Committee Panel on Environmental Pollution reported that by the 15 year 2000, anthropogenic CO₂ emissions would "modify the heat balance of the atmosphere to 16 such an extent that marked changes in climate . . . could occur."³⁷ President Johnson announced in 17 a special message to Congress that "[t]his generation has altered the composition of the atmosphere 18 on a global scale through ... a steady increase in carbon dioxide from the burning of fossil fuels."³⁸ 19 73. 20 These statements from the Johnson Administration, at a minimum, put Defendants on notice of the potentially substantial dangers to people, communities, and the planet associated 21 22 23 ³⁶ Ikard, Meeting the Challenges of 1966, in Proceedings of the American Petroleum Institute 24 (1965), at 13, available at https://www.documentcloud.org/documents/5348130-1965- API-25 Proceedings. ³⁷ President's Science Advisory Committee, Restoring the Quality of Our Environment: Report 26 of the Environmental Pollution Panel, page 9 (Nov. 1965), https://hdl.handle.net/2027/uc1.b4315678. 27 ³⁸ President Lyndon B. Johnson, Special Message to Congress on Conservation and Restoration 28

of Natural Beauty (Feb. 8, 1965), http://acsc.lib.udel.edu/items/show/292.

with use of their fossil fuel products. Moreover, Defendants had amassed a considerable body of 1 2 knowledge on the subject through their own independent efforts.

In 1968, API received a report from the Stanford Research Institute, which it had 3 74. hired to assess the state of research on environmental pollutants, including carbon dioxide.³⁹ The 4 assessment endorsed the findings of President Johnson's Scientific Advisory Council from three 5 years prior, stating that carbon dioxide emissions were "almost certain" to produce "significant" 6 temperature increases by 2000, and that these emissions were almost certainly attributable to fossil 7 fuels. The report warned of "major changes in the earth's environment" and a "rise in sea levels," 8 and concluded: "there seems to be no doubt that the potential damage to our environment could be 9 severe." The scientists warned of "melting of the Antarctic ice cap" and informed API that "[p]ast 10 and present studies of CO₂ are detailed and seem to explain adequately the present state of CO₂ in 11 the atmosphere." What was missing, the scientists said, was work on "air pollution technology 12 and . . . systems in which CO₂ emissions would be brought under control."⁴⁰ 13

75. 14 In 1969, the Stanford Research Institute delivered a supplemental report on air pollution to API, projecting with alarming particularity that atmospheric CO_2 concentrations 15 would reach 370 parts per million ("ppm") by 2000.⁴¹ This projection turned out to almost exactly 16 match the actual CO₂ concentrations measured in 2000 of 369.64 ppm.⁴² The report explicitly 17 connected the rise in CO₂ levels to the combustion of fossil fuels, finding it "unlikely that the 18 19 observed rise in atmospheric CO₂ has been due to changes in the biosphere."

76. 20 By virtue of their membership and participation in API at that time, Defendants received or should have received the Stanford Research Institute reports and were on notice of 21 their conclusions. 22

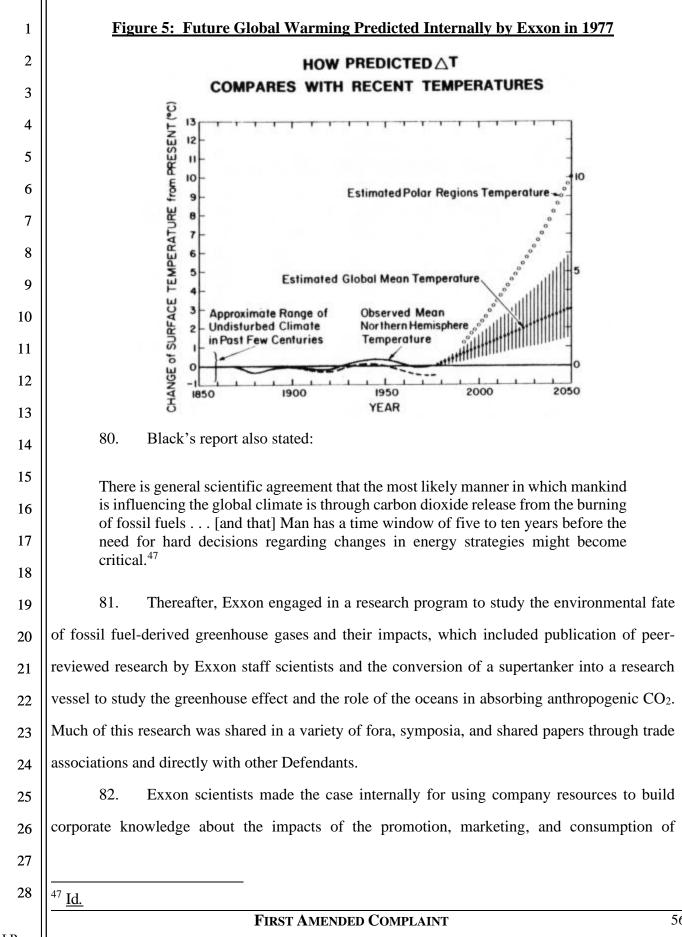
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- ³⁹ Elmer Robinson & R.C. Robbins, <u>Sources, Abundance, and Fate of Gaseous Atmospheric</u> 24 Pollutants, Stanford Rsch. Inst. (Feb. 1968),
- 25 https://www.smokeandfumes.org/documents/document16.
- ⁴⁰ Id. at 108, 112. 26
- ⁴¹ Elmer Robinson & R.C. Robbins, <u>Sources, Abundance, and Fate of Gaseous Atmospheric</u> Pollutants Supplement, Stanford Rsch. Inst. (June 1969). 27
- ⁴² NASA Goddard Institute for Space Studies, Global Mean CO2 Mixing Ratios (ppm): 28 Observations, https://data.giss.nasa.gov/modelforce/ghgases/Fig1A.ext.txt.

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In 1972, API members, including Defendants, received a status report on all 8 78. 9 environmental research projects funded by API. The report summarized the 1968 SRI report describing the impact of Defendants' fossil fuel products on the environment, including global 10 warming and sea level rise. Industry participants who received this report include: American 11 Standard of Indiana (BP), Asiatic (Shell), Ashland (Marathon), Atlantic Richfield (BP), British 12 Petroleum (BP), Chevron Standard of California (Chevron), Cities Service (Citgo), Continental 13 14 (ConocoPhillips), Dupont (former owner of Conoco), Esso Research (Exxon), Ethyl (formerly affiliated with Esso, which was subsumed by Exxon), Getty (Lukoil/Exxon), Gulf (Chevron, 15 among others), Humble Standard of New Jersey (Exxon/Chevron/BP), Marathon, Mobil (Exxon), 16 Pan American (BP), Phillips (ConocoPhillips), Shell, Standard of Ohio (BP), Texaco (Chevron), 17 Union (Chevron), Edison Electric Institute (representing electric utilities), Bituminous Coal 18 19 Research (coal industry research group), Mid-Continent Oil & Gas Association (presently the U.S. 20 Oil & Gas Association, a national trade association), Western Oil & Gas Association, National Petroleum Refiners Association (presently the American Fuel and Petrochemical Manufacturers 21 Association, a national trade association), Champlin (Anadarko), Skelly (Lukoil/Exxon), Colonial 22 Pipeline (ownership has included BP, Citgo, Exxon, ConocoPhillips, Chevron entities, among 23 others) and Caltex (Chevron), among others.⁴⁴ 24

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- ⁴³ M.M. Patterson, <u>An Ocean Data Gathering Program for the Gulf of Mexico</u>, Society of
 Petroleum Engineers (1969), https://www.onepetro.org/conference-paper/SPE-2638-MS.
 ⁴⁴ American Petroleum Institute, <u>Environmental Research</u>, <u>A Status Report</u>, Committee for Air and Water Conservation (January 1972), http://files.eric.ed.gov/fulltext/ED066339.pdf.

1	79. In 1977, James Black of Exxon gave a presentation to Exxon executives on the
2	"greenhouse effect," which was summarized in an internal memo the following year. Black
3	reported that "current scientific opinion overwhelmingly favors attributing atmospheric carbon
4	dioxide increase to fossil fuel consumption," and that doubling atmospheric carbon dioxide would,
5	according to the best climate model available, "produce a mean temperature increase of about 2° C
6	to 3° C over most of the earth," with two to three times as much warming at the poles. ⁴⁵ Black
7	reported that the impacts of global warming would include "more rainfall," which would "benefit
8	some areas and would harm others," and that "[s]ome countries would benefit, but others could
9	have their agricultural output reduced or destroyed." "Even those nations which are favored,
10	however, would be damaged for a while since their agricultural and industrial patterns have been
11	established on the basis of the present climate." Finally, Black reported that "[p]resent thinking
12	holds that man has a time window of five to ten years before the need for hard decisions regarding
13	changes in energy strategies might become critical." ⁴⁶ The figure below, reproduced from Black's
14	memo, illustrates Exxon's understanding of the timescale and magnitude of global warming that
15	its products would cause.
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26	⁴⁵ J.F. Black, Exxon Research and Engineering Co., memorandum to F.G. Turpin, <u>Exxon</u> <u>Research and Engineering Co. re The Greenhouse Effect</u> (June 6, 1978) at 2, 23, available at
27	https://www.documentcloud.org/documents/2805568-1978-Exxon-Presentation-on- GreenhouseEffect.
28	⁴⁶ <u>Id.</u> at 2.
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Defendants' fossil fuel products. Exxon climate researcher Henry Shaw wrote in 1978: "The 1 2 rationale for Exxon's involvement and commitment of funds and personnel is based on our need 3 to assess the possible impact of the greenhouse effect on Exxon business. Exxon must develop a 4 credible scientific team that can critically evaluate the information generated on the subject and be able to carry bad news, if any, to the corporation."⁴⁸ Shaw's internal memo to Exxon's John W. 5 Harrison reported that "[t]he climatic effects of carbon dioxide release may be the primary limiting 6 factor on energy production from fossil fuels[.]"49 Moreover, Shaw emphasized the need to 7 collaborate with universities and government to more completely understand what he called the 8 "CO₂ problem."⁵⁰ 9

83. In 1979, API and its members, including Defendants, convened a Task Force to 10 monitor and share cutting edge climate research among the oil industry. The group was initially 11 12 called the CO₂ and Climate Task Force, but changed its name to the Climate and Energy Task Force in 1980 (hereinafter referred to as "API CO₂ Task Force"). API kept and distributed meeting 13 14 minutes to Task Force members. Membership included senior scientists and engineers from nearly every major U.S. and multinational oil and gas company, including Exxon, Mobil (Exxon), Amoco 15 (BP), Phillips (ConocoPhillips), Texaco (Chevron), Shell, Sunoco, Sohio (BP) as well as Standard 16 17 Oil of California (Chevron) and Gulf Oil (Chevron, among others). The Task Force was charged with assessing the implications of emerging science on the petroleum and gas industries and 18 19 identifying where reductions in greenhouse gas emissions from Defendants' fossil fuel products could be made.⁵¹ 20

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⁴⁸Henry Shaw, <u>Memo to Edward David Jr. on the "Greenhouse Effect"</u>, Exxon Research and Engineering Company (Dec. 7, 1978).

⁴⁹ Henry Shaw, <u>Environmental Effects of Carbon Dioxide, Climate Investigations Ctr.</u> (Oct. 31, 1977), https://www.industrydocuments.ucsf.edu/docs/tpwl0228. ⁵⁰ Id.

- ⁵¹American Petroleum Institute, <u>AQ-9 Task Force Meeting Minutes</u> (Mar. 18, 1980),
- 27 http://insideclimatenews.org/sites/default/files/documents/AQ-
- 9%20Task%20Force%20Meeting%20%281980%29.pdf (AQ-9 refers to the API CO₂ Task Force).

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1	84. In 1979, API sent its members a background memo related to the API CO ₂ Task
2	Force's efforts, stating that CO ₂ concentrations were rising steadily in the atmosphere, and
3	predicting when the first clear effects of climate change might be felt. ⁵²
4	85. Also in 1979, Exxon scientists advocated internally for additional fossil fuel
5	industry-generated atmospheric research in light of the growing consensus that consumption of
6	fossil fuel products was changing the Earth's climate:
7	"We should determine how Exxon can best participate in all these [atmospheric
8	science research] areas and influence possible legislation on environmental controls. It is important to begin to anticipate the strong intervention of
9	environmental groups and be prepared to respond with reliable and credible data. It behooves [Exxon] to start a very aggressive defensive program in the indicated
10	areas of atmospheric science and climate because there is a good probability that
11	legislation affecting our business will be passed. Clearly, it is in our interest for such legislation to be based on hard scientific data. The data obtained from research
12	on the global damage from pollution, e.g., from coal combustion, will give us the needed focus for further research to avoid or control such pollutants." ⁵³
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14	86. That same year, Exxon Research and Engineering reported that: "The most widely
15	held theory [about increasing CO ₂ concentration] is that the increase is due to fossil fuel
16	combustion, increasing CO ₂ concentration will cause a warming of the earth's surface, and the
17	present trend of fossil fuel consumption will cause dramatic environmental effects before the year
18	2050."54 Further, the report stated that unless fossil fuel use was constrained, there would be
19	"noticeable temperature changes" associated with an increase in atmospheric CO ₂ from about 280
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22	⁵² Neela Banerjee, <u>Exxon's Oil Industry Peers Knew About Climate Dangers in the 1970s, Too</u> , Inside Climate News (Dec. 22, 2015), https://insideclimatenews.org/news/22122015/exxon-
23	mobil-oil-industry-peers-knew-about-climate-change-dangers-1970s-american-petroleum- institute-api-shell-chevron-texaco.
24	⁵³ Henry Shaw, <u>Exxon Memo to H.N. Weinberg about "Research in Atmospheric Science"</u> ,
25	Exxon Inter-Office Correspondence (Nov. 19, 1979), https://insideclimatenews.org/sites/default/files/documents/Probable%20Legislation%20Memo%
26	20(1979).pdf. ⁵⁴ W.L. Ferrall, <u>Exxon Memo to R.L. Hirsch about "Controlling Atmospheric CO₂"</u> , Exxon
27	Research and Engineering Company (Oct. 16, 1979),
28	http://insideclimatenews.org/sites/default/files/documents/CO2%20and%20Fuel%20Use%20Projections.pdf.
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parts per million before the Industrial Revolution to 400 parts per million by the year 2010.⁵⁵ Those
projections proved remarkably accurate—atmospheric CO₂ concentrations surpassed 400 parts per
million in May 2013, for the first time in millions of years.⁵⁶ In 2015, the annual average CO₂
concentration rose above 400 parts per million, and in 2016 the annual low surpassed 400 parts
per million, meaning atmospheric CO₂ concentration remained above that threshold all year.⁵⁷ In
1980, API's CO₂ Task Force members discussed the oil industry's responsibility to reduce CO₂
emissions by changing refining processes and developing fuels that emit less CO₂.

87. In or around February 29, 1980, Dr. John Laurmann, a "recognized expert in the 8 field of CO₂ and climate," made a presentation to its members.⁵⁸ The meeting lasted for seven 9 hours and included a "complete technical discussion" of global warming caused by fossil fuels, 10 including "the scientific basis and technical evidence of CO₂ buildup, impact on society, methods 11 of modeling and their consequences, uncertainties, policy implications, and conclusions that can 12 be drawn from present knowledge." His presentation identified the "scientific consensus on the 13 14 potential for large future climatic response to increased CO2 levels" as a reason for API members to have concern with the "CO₂ problem" and informed attendees that there was "strong empirical 15 evidence that rise [in CO_2 concentration was] caused by anthropogenic release of CO_2 , mainly 16 from fossil fuel combustion."⁵⁹ Moreover, Dr. Laurmann warned that the amount of CO₂ in the 17 atmosphere could double by 2038, which he said would likely lead to a 2.5° C (4.5° F) rise in 18 19 global average temperatures with "major economic consequences." He then told the Task Force

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⁵⁵ Id.

²² ⁵⁶ Nicola Jones, <u>How the World Passed a Carbon Threshold and Why it Matters</u>, Yale
 ²³ Environment 360 (Jan. 26, 2017), http://e360.yale.edu/features/how-the-world-passed-a-carbon-threshold-400ppm-and-why-it-matters.

24 57 <u>Id.</u>

25 ⁵⁸ J. J. Nelson, American Petroleum Institute, <u>letter to AQ-9 Task Force re The CO₂ Problem;</u> Addressing Research Agenda Development (Mar. 18, 1980) at 2, available at

- 26 https://www.industrydocuments.ucsf.edu/docs/gffl0228.
- ⁵⁹ American Petroleum Institute, <u>AQ-9 Task Force Meeting Minutes</u> (Mar. 18, 1980),
- 27 || http://insideclimatenews.org/sites/default/files/documents/AQ-

28 9%20Task%20Force%20Meeting%20%281980%29.pdf (AQ-9 refers to the API CO₂ Task Force).

that models showed a 5° C (9° F) rise by 2067, with "globally catastrophic effects."⁶⁰ He also 1 2 suggested that, despite uncertainty, "THERE IS NO LEEWAY" in the time for acting. A Task 3 Force member and representative of Texaco leadership present at the meeting posited that the API CO₂ Task Force should develop ground rules for energy release of fuels and the cleanup of fuels 4 as they relate to CO₂ creation. Attendees to the presentation also included scientists and executives 5 from API, Exxon, and SOHIO (a predecessor to BP), and the minutes of the meeting were 6 distributed to the entire Task Force. API minutes show that the Task Force discussed topics 7 including "the technical implications of energy source changeover," "ground rules for energy 8 release of fuels and the cleanup of fuels as they relate to CO₂ creation," and researching "the 9 Market Penetration Requirements of Introducing a New Energy Source into World Wide Use."61 10 The Task Force even asked the question "what is the 50 year future of fossil fuels?" 11

12 88. In 1980, the API CO₂ Task Force also discussed a potential area for investigation:
13 alternative energy sources as a means of mitigating CO₂ emissions from Defendants' fossil fuel
14 products. These efforts called for research and development to "Investigate the Market Penetration
15 Requirements of Introducing a New Energy Source into World Wide Use." Such investigation was
16 to include the technical implications of energy source changeover, research timing, and
17 requirements.⁶²

89. By 1980, Exxon's senior leadership had become intimately familiar with the 18 19 greenhouse effect and the role of CO₂ in the atmosphere. In that year, Exxon Senior Vice President 20 and Board member George Piercy questioned Exxon researchers on the minutiae of the ocean's role in absorbing atmospheric CO₂, including whether there was a net CO₂ flux out of the ocean 21 into the atmosphere in certain zones where upwelling of cold water to the surface occurs, because 22 Piercy evidently believed that the oceans could absorb and retain higher concentrations of CO₂ 23 24 25 26 ⁶⁰ Id. 27

SHER EDLING LLP ⁶¹ Id.

⁶² Id.

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than the atmosphere.⁶³ This inquiry aligned with Exxon supertanker research into whether the
ocean would act as a significant CO₂ sink that would sequester atmospheric CO₂ long enough to
allow reckless emissions without triggering dire climatic consequences. As described below,
Exxon eventually scrapped this research before it produced enough data from which to derive a
conclusion.⁶⁴

90. Also in 1980, Imperial Oil (Exxon) reported to Esso and Exxon managers and 6 7 environmental staff that increases in fossil fuel usage aggravates CO₂ in the atmosphere. Noting 8 that the United Nations was encouraging research into the carbon cycle, Imperial reported that 9 there was "no doubt" that fossil fuels were aggravating the build-up of CO₂ in the atmosphere and that "[t]echnology exists to remove CO₂ from [fossil fuel power plant] stack gases but removal of 10 only 50% of the CO₂ would double the cost of power generation." Imperial also reported that its 11 coordination department had been internally evaluating its and Exxon's products to determine 12 whether disclosure of a human health hazard was necessary. The report notes that Section (8e) of 13 14 Toxic Substances Control Act, 55 U.S.C. §§ 1601 et seq., requires that anyone who discovers that a material or substance in commercial use is or may be a significant risk to human health must 15 16 report such findings to the Environmental Protection Agency within 15 days. Although greenhouse gases are human health hazards (because they have serious consequences in terms of global food 17 production, disease virulence, and sanitation infrastructure, among other impacts), neither 18 19 Imperial, Exxon, nor any other Defendant has ever filed a disclosure with the U.S. Environmental 20 Protection Agency pursuant to the Toxic Substances Control Act.

21 22 91. Exxon scientist Roger Cohen warned his colleagues in a 1981 internal memorandum that "future developments in global data gathering and analysis, along with advances

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- ⁶³ Neela Banerjee, <u>More Exxon Documents Show How Much It Knew About Climate 35 Years</u>
 <u>Ago</u>, Inside Climate News (Dec. 1, 2015),
 <u>https://insideclimatenews.org/news/01122015/decuments.exxons.eerly.co2.position.senior</u>
- ²⁵ https://insideclimatenews.org/news/01122015/documents-exxons-early-co2-position-senior executives-engage-and-warming-forecast.
- ⁶⁴ Neela Banerjee et al., <u>Exxon Believed Deep Dive Into Climate Research Would Protect Its</u>
 27 <u>Business</u>, Inside Climate News (Sept. 17, 2015),
- 28 https://insideclimatenews.org/news/16092015/exxon-believed-deep-dive-into-climate-researchwould-protect-its-business.

1	in climate modeling, may provide strong evidence for a delayed CO ₂ effect of a truly substantial
2	magnitude," and that under certain circumstances it would be "very likely that we will
3	unambiguously recognize the threat by the year 2000." ⁶⁵ Cohen had expressed concern that the
4	memorandum mischaracterized potential effects of reckless CO ₂ emissions from Defendants'
5	fossil fuel products: " it is distinctly possible that the [Exxon Planning Division's] scenario
б	will produce effects which will indeed be catastrophic (at least for a substantial fraction of the
7	world's population)."66
8	92. In 1981, Exxon's Henry Shaw, the company's lead climate researcher at the time,
9	prepared a summary of Exxon's current position on the greenhouse effect for Edward David Jr.,
10	president of Exxon Research and Engineering, stating in relevant part:
11	• "Atmospheric CO ₂ will double in 100 years if fossil fuels grow at $1.4\%/a^2$.
12	 3°C global average temperature rise and 10°C at poles if CO₂ doubles. Major shifts in rainfall/agriculture
13	 Polar ice may melt^{"67}
14	93. In 1982, another report prepared for API by scientists at the Lamont-Doherty
15	Geological Observatory at Columbia University recognized that atmospheric CO ₂ concentration
16	had risen significantly compared to the beginning of the industrial revolution from about 290 parts
17	per million to about 340 parts per million in 1981 and acknowledged that despite differences in
18	climate modelers' predictions, all models indicated a temperature increase caused by
19	anthropogenic CO ₂ within a global mean range of 4° C (7.2° F). The report advised that there was
20	scientific consensus that "a doubling of atmospheric CO ₂ from [] pre-industrial revolution value
21	would result in an average global temperature rise of $(3.0 \pm 1.5)^{\circ}$ C [5.4 ± 2.7° F]." It went further,
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23	⁶⁵ Roger W. Cohen, <u>Exxon Memo to W. Glass about possible "catastrophic" effect of CO₂</u> ,
24	Exxon Inter-Office Correspondence (Aug. 18, 1981), http://www.climatefiles.com/exxonmobil/1981-exxon-memo-on-possible-emission-
25	consequences-of-fossil-fuel-consumption/.
26	⁶⁶ <u>Id.</u> ⁶⁷ Henry Shaw, <u>Exxon Memo to E. E. David, Jr. about "CO₂Position Statement"</u> , Exxon Inter-
27	Office Correspondence (May 15, 1981), https://insideclimatenews.org/sites/default/files/documents/Exxon%20Position%20on%20CO2%
28	20%281981%29.pdf.
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warning that "[s]uch a warming can have serious consequences for man's comfort and survival
since patterns of aridity and rainfall can change, the height of the sea level can increase
considerably and the world food supply can be affected."⁶⁸ Exxon's own modeling research
confirmed this, and the company's results were later published in at least three peer-reviewed
scientific papers.⁶⁹

94. Also in 1982, Exxon's Environmental Affairs Manager distributed a primer on 6 climate change to a "wide circulation [of] Exxon management . . . intended to familiarize Exxon 7 personnel with the subject."⁷⁰ The primer also was "restricted to Exxon personnel and not to be 8 distributed externally."⁷¹ The primer compiled science on climate change available at the time, and 9 confirmed fossil fuel combustion as a primary anthropogenic contributor to global warming. The 10 report estimated a CO₂ doubling around 2090 based on Exxon's long-range modeled outlook. The 11 author warned that the melting of the Antarctic ice sheet could result in global sea level rise of five 12 feet which would "cause flooding on much of the U.S. East Coast, including the State of Florida 13 and Washington, D.C."⁷² Indeed, it warned that "there are some potentially catastrophic events 14 that must be considered," including sea level rise from melting polar ice sheets. It noted that some 15 scientific groups were concerned "that once the effects are measurable, they might not be 16 17 reversible."73

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20	⁶⁸ American Petroleum Institute, <u>Climate Models and CO₂ Warming: A Selective Review and</u>
	Summary, Lamont-Doherty Geological Observatory (Columbia University) (Mar. 1982),
21	https://assets.documentcloud.org/documents/2805626/1982-API-Climate-Models-and-CO2-
	Warming-a.pdf.
22	⁶⁹ See Roger W. Cohen, Exxon Memo summarizing findings of research in climate modeling,
23	Exxon Research and Engineering Company (Sept. 2, 1982),
23	https://insideclimatenews.org/sites/default/files/documents/%2522Consensus%2522%20on%20
24	CO2%20Impacts%20(1982).pdf (discussing research articles).
	⁷⁰ M. B. Glaser, Exxon Memo to Management about "CO ₂ 'Greenhouse' Effect", Exxon
25	Research and Engineering Company (Nov. 12, 1982),
	http://insideclimatenews.org/sites/default/files/documents/1982%20Exxon%20Primer%20on%2
26	0CO2%20Greenhouse%20Effect.pdf.
	⁷¹ <u>Id.</u>
	72 <u>Id.</u>
28	73 <u>Id.</u>

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95. In a summary of Exxon's climate modeling research from 1982, Director of 1 Exxon's Theoretical and Mathematical Sciences Laboratory Roger Cohen wrote that "the time 2 3 required for doubling of atmospheric CO₂ depends on future world consumption of fossil fuels." Cohen concluded that Exxon's own results were "consistent with the published predictions of more 4 complex climate models" and "in accord with the scientific consensus on the effect of increased 5 atmospheric CO₂ on climate."⁷⁴ 6 96. At the fourth biennial Maurice Ewing Symposium at the Lamont-Doherty 7 Geophysical Observatory in October 1982, attended by members of API, Exxon Research and 8 Engineering Company president E.E. David delivered a speech titled: "Inventing the Future: 9 Energy and the CO₂ 'Greenhouse Effect.'"⁷⁵ His remarks included the following statement: "[F]ew 10 people doubt that the world has entered an energy transition away from dependence upon fossil 11 fuels and toward some mix of renewable resources that will not pose problems of CO₂ 12 accumulation." He went on, discussing the human opportunity to address anthropogenic climate 13 14 change before the point of no return: 15 It is ironic that the biggest uncertainties about the CO₂ buildup are not in predicting 16 what the climate will do, but in predicting what people will do. . . . [It] appears we still have time to generate the wealth and knowledge we will need to invent the 17 transition to a stable energy system. 18 19 97. Throughout the early 1980s, at Exxon's direction, Exxon climate scientist Henry Shaw forecasted emissions of CO_2 from fossil fuel use. Those estimates were incorporated into 20 Exxon's 21st century energy projections and were distributed among Exxon's various divisions. 21 Shaw's conclusions included an expectation that atmospheric CO₂ concentrations would double in 22 23 24 ⁷⁴ Roger W. Cohen, Exxon Memo summarizing findings of research in climate modeling, Exxon 25 Research and Engineering Company (Sept. 2, 1982), https://insideclimatenews.org/sites/default/files/documents/%2522Consensus%2522%20on%20 26 CO2%20Impacts%20(1982).pdf. ⁷⁵ E. E. David, Jr., Inventing the Future: <u>Energy and the CO₂ Greenhouse Effect: Remarks at the</u> 27 Fourth Annual Ewing Symposium, Tenafly, NJ (1982), 28 http://sites.agu.org/publications/files/2015/09/ch1.pdf.

1	2000 per the Evy on model with an attendant 2.2 , 5.6° E everage global temperature increase. Show
1	2090 per the Exxon model, with an attendant 2.3–5.6° F average global temperature increase. Shaw
2	compared his model results to those of the U.S. EPA, the National Academy of Sciences, and the
3	Massachusetts Institute of Technology, indicating that the Exxon model predicted a longer delay
4	than any of the other models, although its temperature increase prediction was in the mid-range of
5	the four projections. ⁷⁶
б	98. During the 1980s, many Defendants formed their own research units focused on
7	climate modeling. The API, including the API CO ₂ Task Force, provided a forum for Defendants
8	to share their research efforts and corroborate their findings related to anthropogenic greenhouse
9	gas emissions. ⁷⁷
10	99. During this time, Defendants' statements express an understanding of their
11	obligation to consider and mitigate the externalities of reckless promotion, marketing, and sale of
12	their fossil fuel products. For example, in 1988, Richard Tucker, the president of Mobil Oil,
13	presented at the American Institute of Chemical Engineers National Meeting, the premier
14	educational forum for chemical engineers, where he stated:
15	
16	[H]umanity, which has created the industrial system that has transformed civilities, is also responsible for the environment, which sometimes is at risk because of
17	unintended consequences of industrialization Maintaining the health of this
18	life-support system is emerging as one of the highest priorities [W]e must all be environmentalists.
19	The environmental covenant requires action on many frontsthe low-atmosphere
20	ozone problem, the upper-atmosphere ozone problem and the greenhouse effect, to name a few Our strategy must be to reduce pollution before it is ever
21	generated – to prevent problems at the source.
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24	⁷⁶ Neela Banerjee, <u>More Exxon Documents Show How Much It Knew About Climate 35 Years</u>
25	Ago, Inside Climate News (Dec. 1, 2015),
26	https://insideclimatenews.org/news/01122015/documents-exxons-early-co2-position-senior-executives-engage-and-warming-forecast.
27	⁷⁷ Neela Banerjee, <u>Exxon's Oil Industry Peers Knew About Climate Dangers in the 1970s, Too</u> , Inside Climate News (Dec. 22, 2015), https://insideclimatenews.org/news/22122015/exxon-
27	mobil-oil-industry-peers-knew-about-climate-change-dangers-1970s-american-petroleum-
	institute-api-shell-chevron-texaco. FIRST AMENDED COMPLAINT 65
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1 Prevention means engineering a new generation of fuels, lubricants and chemical products. . . . Prevention means designing catalysts and processes that minimize 2 or eliminate the production of unwanted byproducts. . . . Prevention on a global scale may even require a dramatic reduction in our dependence on fossil fuels— 3 and a shift towards solar, hydrogen, and safe nuclear power. It may be possible that—just possible—that the energy industry will transform itself so completely 4 that observers will declare it a new industry. . . . Brute force, low-tech responses 5 and money alone won't meet the challenges we face in the energy industry.⁷⁸ 100. In 1987, Shell published an internal "brief for companies of the Royal Dutch/Shell 6 7 Group" titled "Air pollution: an oil industry perspective." In this report, the company described the greenhouse effect as occurring "largely as a result of burning fossil fuels and deforestation."⁷⁹ 8 Shell further acknowledged the "concern that further increases in carbon dioxide levels could cause 9 climatic changes, notably a rise in overall temperature, having major environmental, social and 10 economic consequences."80 11 12 101. In 1988, the Shell Greenhouse Effect Working Group issued a confidential internal report, "The Greenhouse Effect," which acknowledged global warming's anthropogenic nature: 13 14 "Man-made carbon dioxide, released into and accumulated in the atmosphere, is believed to warm the earth through the so-called greenhouse effect." The authors also noted the burning of fossil 15 fuels as a primary driver of CO₂ buildup and warned that warming could "create significant 16 changes in sea level, ocean currents, precipitation patterns, regional temperature and weather." 17 They further pointed to the potential for "direct operational consequences" of sea level rise on 18 19 "offshore installations, coastal facilities and operations (e.g. platforms, harbors, refineries, depots)."81 20 21 22 ⁷⁸ Richard E. Tucker, High Tech Frontiers in the Energy Industry: The Challenge Ahead, AIChE 23 National Meeting (Nov. 30, 1988), https://hdl.handle.net/2027/pur1.32754074119482?urlappend=%3Bseq=522. 24 ⁷⁹ Shell Briefing Service, Air pollution: an oil industry perspective (1987), at 4, 25 https://www.documentcloud.org/documents/24359057-shell-briefing-service-air-pollution-anoil-industry-perspective-nr1-1987. 26 ⁸⁰ Id. at 5. ⁸¹ Shell Internationale Petroleum, Greenhouse Effect Working Group, The Greenhouse Effect 27 (May 1988) at 1, 27, available at https://www.documentcloud.org/documents/4411090-28 Document3.html#document/p9/a411239. FIRST AMENDED COMPLAINT 66

SHER EDLING LLP 1 102. Similar to early warnings by Exxon scientists, the 1988 Shell report noted that "by
2 the time the global warming becomes detectable it could be too late to take effective
3 countermeasures to reduce the effects or even to stabilise the situation." The authors mentioned
4 the need to consider policy changes on multiple occasions, noting that "the potential implications
5 for the world are . . . so large that policy options need to be considered much earlier" and that
6 research should be "directed more to the analysis of policy and energy options than to studies of
7 what we will be facing exactly."⁸²

In 1989, Esso Resources Canada (Exxon) commissioned a report on the impacts of 8 103. 9 climate change on existing and proposed natural gas facilities in the Mackenzie River Valley and Delta, including extraction facilities on the Beaufort Sea and a pipeline crossing Canada's 10 Northwest Territory.⁸³ It reported that "large zones of the Mackenzie Valley could be affected 11 12 dramatically by climatic change" and that "the greatest concern in Norman Wells [oil town in North West Territories, Canada] should be the changes in permafrost that are likely to occur under 13 14 conditions of climate warming." The report concluded that, in light of climate models showing a "general tendency towards warmer and wetter climate," operation of those facilities would be 15 compromised by increased precipitation, increase in air temperature, changes in permafrost 16 conditions, and significantly, sea level rise and erosion damage.⁸⁴ The authors recommended 17 factoring these eventualities into future development planning and also warned that "a rise in sea 18 19 level could cause increased flooding and erosion damage on Richards Island."

104. In the mid-1990s, Exxon, Shell and Imperial Oil (Exxon) jointly undertook the
Sable Offshore Energy Project in Nova Scotia. The project's own Environmental Impact Statement
declared: "The impact of a global warming sea-level rise may be particularly significant in Nova
Scotia. The long-term tide gauge records at a number of locations along the N.S. coast have shown

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25 $8^2 \underline{Id.}$ at 1, 6.

⁸⁴ Id.

- ⁸³Stephen Lonergan and Kathy Young, <u>An Assessment of the Effects of Climate Warming on Energy Developments in the Mackenzie River Valley and Delta, Canadian Arctic, Energy Exploration & Exploitation, Vol. 7, Issue 5 (Oct. 1, 1989), http://journals.sagepub.com/doi/abs/10.1177/014459878900700508.
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sea level has been rising over the past century For the design of coastal and offshore structures, 1 2 an estimated rise in water level, due to global warming, of 0.5 m [1.64 feet] may be assumed for the proposed project life (25 years)."85 3

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105. Climate change research conducted by Defendants and their industry associations frequently acknowledged uncertainties in their climate modeling—those uncertainties, however, 5 were merely with respect to the magnitude and timing of climate impacts resulting from fossil fuel 6 consumption, not that significant changes would eventually occur. Defendants' researchers and 7 the researchers at their industry associations harbored little doubt that climate change was 8 9 occurring and that fossil fuel products were, and are, the primary cause.

106. In 1991, Ken Croasdale, a senior ice researcher for Exxon's subsidiary Imperial 10 Oil, stated to an audience of engineers that greenhouse gas concentrations are rising "due to the 11 12 burning of fossil fuels. Nobody disputes this fact."86

107. Defendants also meticulously examined plausible scenarios if they failed to act in 13 14 the face of their internal knowledge. For instance, Shell evaluated in a 1989 internal confidential planning document the issue of "climate change – the greenhouse effect, global warming," which 15 the document identified as "the most important issue for the energy industry."⁸⁷ The document 16 compared a scenario in which society "addresses the potential problem" with one in which it does 17 not. Acknowledging that "[c]hanging emission levels ... and changing atmospheric CO2 18 19 concentration has been likened to turning around a VLCC [very large crude carrier]," even "substantial efforts" by 2010 would have "hardly any impact on CO2 concentration." In later years, 20 however, the impacts are "strikingly different"; early efforts "will not prevent the problem arising, 21

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- 23 ⁸⁵ ExxonMobil, Sable Project, Development Plan, Volume 3 – Environmental Impact Statement http://soep.com/about-the-project/development-plan-application/. 24 ⁸⁶ Jerving et al., Special Report: What Exxon Knew About Global Warming's Impact on the 25 Arctic, L.A. Times (Oct. 10, 2015), available at https://www.latimes.com/business/la-naadvexxon-arctic-20151011-story.html. 26 ⁸⁷ Shell, Scenarios 1989–2010: Challenge and Response (Oct. 1989), at 33,
- https://www.documentcloud.org/documents/23735737-1989-oct-confidential-shell-group-27 planning-scenarios-1989-2010-challenge-and-response-disc-climate-refugees-and-shift-to-non-28 fossil-fuels.

1	but could mitigate the problem." The document described the consequences of failing to address
2	the problem right away:
3 4	These seem small changes but they mask more dramatic temperature changes which would take place at temperate latitudes. There would be more violent weather –
4 5	more storms, more droughts, more deluges. Mean sea level would rise at least 30 cm. Agricultural patterns would be most dramatically changed. Something as
6	simple as a moderate change in rainfall pattern disrupts eco-systems, and many species of trees, plants, animals and insects would not be able to move and adapt.
7	The changes would, however, most impact on humans. In earlier times, man was
8	able to respond with his feet. Today, there is no place to go because people already stand there. Perhaps those in industrial countries could cope with a rise in sea level
9 10	(the Dutch examples) but for poor countries such defences are not possible. The potential refugee problem could be unprecedented. Africans would push into
10	Europe, Chinese into the Soviet Union, Latins into the United States, Indonesians into Australia. Boundaries would count for little – overwhelmed by the numbers.
12	Conflicts would abound. Civilization could prove a fragile thing. ⁸⁸
13	108. In another 1989 confidential internal planning document, Shell anticipated that
14	"public/media pressures" to "adopt[] environmental programmes" such as "much tighter targets
15	for CO ₂ emissions" could prompt "effective consumer responses" that "will lead to intense and
16	unpredictable pressures on business."89 The scenario envisioned that "[c]oncerns about global
17	warming and depletion will depress production of fossil fuels, their market share declining as
18	renewables are actively promoted," given that "[w]here there can be real consumer choice it will
19	be a dominant force, especially where interest is heightened by obvious environmental impact."90
20	109. In yet another scenario published in a 1998 internal report, Shell paints an eerily
21	prescient scene:
22	In 2010, a series of violent storms causes extensive damage to the eastern coast of the U.S. Although it is not clear whether the storms are caused by climate change,
23	people are not willing to take further chances. The insurance industry refuses to
24	accept liability, setting off a fierce debate over who is liable: the insurance industry or the government. After all, two successive IPCC reports since 1993 have
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26	88 <u>Id.</u> at 36.
27	⁸⁹ <u>See</u> Shell UK, <u>UK Scenarios 1989</u> (Nov. 1989), at 31, 34, https://embed.documentcloud.org/documents/24359062-snippets-of-confidential-shell-uk-
28	november-1989-scenarios. 90 <u>Id.</u> at 34.
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reinforced the human connection to climate change . . . Following the storms, a coalition of environmental NGOs brings a class-action suit against the US government and fossil-fuel companies on the grounds of neglecting what scientists (including their own) have been saying for years: that something must be done. A social reaction to the use of fossil fuels grows, and individuals become 'vigilante environmentalists' in the same way, a generation earlier, they had become fiercely anti-tobacco. Direct-action campaigns against companies escalate. Young consumers, especially, demand action.⁹¹

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Fossil fuel companies did not just consider climate change impacts in scenarios; 7 110. 8 they also incorporated those impacts in their on-the-ground planning. In the mid-1990s, Exxon, 9 Shell, and Imperial Oil (Exxon) jointly undertook the Sable Offshore Energy Project in Nova Scotia. The project's own Environmental Impact Statement declared, "The impact of a global 10 warming sea-level rise may be particularly significant in Nova Scotia. The long-term tide gauge 11 records at a number of locations along the N.S. coast have shown sea level has been rising over 12 the past century.... For the design of coastal and offshore structures, an estimated rise in water 13 14 level, due to global warming, of 0.5 m [1.64 feet] may be assumed for the proposed project life (25 years)."⁹² 15

16 111. Despite the overwhelming information about the threats to people and the planet posed by continued use of their fossil fuel products, Defendants failed to act as they reasonably 17 should have to mitigate or avoid those dire adverse impacts. Defendants instead adopted the 18 19 position, as described below, that they had a license to continue the unfettered pursuit of profits 20 from those products—including by intentionally misleading and deceiving the public regarding these threats. This position was an abdication and contravention of Defendants' responsibility to 21 22 consumers and the public, including the County, to act on their unique knowledge of the reasonably 23 foreseeable hazards of reckless promotion and consumption of their fossil fuel products.

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⁹¹ Royal Dutch/Shell Group, <u>Group Scenarios 1998–2020</u>, at 115, 122 (1998), http://www.documentcloud.org/documents/4430277-27-1-Compiled.html.

⁹² ExxonMobil, Sable Project Development Plan, vol. 3, Environmental Impact Statement (Feb. 1996), at 4-77.

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C.

Despite Their Early Knowledge That Global Warming Was Real and Posed Grave Threats, Defendants Did Not Disclose Known Harms Associated with the Extraction, Promotion, and Consumption of Their Fossil Fuel Products and Instead Affirmatively Acted to Obscure Those Harms and Engaged in a Campaign to Deceptively Protect and Expand the Use of Their Fossil Fuel Products.

5 112. Notwithstanding Defendants' early knowledge of climate change, Defendants have 6 engaged in advertising and communications campaigns intended to promote their fossil fuel 7 products by downplaying the harms and risks of global warming. Initially, the campaigns tried to 8 show that global warming was not occurring. More recently, the campaigns have sought to 9 minimize the risks and harms from global warming. The deception campaigns had the purpose and 10 effect of inflating and sustaining the market for fossil fuels, which—in turn—drove up greenhouse 11 gas emissions, accelerated global warming, delayed the energy economy's transition to a lower-12 carbon future, and brought about devastating climate change impacts to Richmond and its 13 Disadvantaged Communities⁹³—sometimes referred to as environmental justice communities.

14 113. By 1988, Defendants had amassed a compelling body of knowledge about the role 15 of anthropogenic greenhouse gases, and specifically those emitted from the use of Defendants' 16 fossil fuel products, in causing global warming and sea level rise and the attendant consequences 17 for human communities and the environment. On notice that their deception and products were 18 causing global climate change and dire effects on the planet, Defendants were faced with the 19 decision of whether to take steps to limit the damages their fossil fuel products were causing and 20 would continue to cause for virtually every one of Earth's inhabitants, including the People of the 21 State of California, and the City of Richmond and its residents.

114. Defendants at any time before or thereafter could and should reasonably have taken
any of a number of steps to mitigate the damage caused by their deception and fossil fuel products,
and their own comments reveal an awareness of what some of these steps may have been. For
example, Defendants should have issued reasonable warnings to consumers and the public of the
dangers known to Defendants of the consumption of their fossil fuel products. Doing so would

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⁹³ See City of Richmond, Climate Action Plan, at 20 (Oct. 2016).

have allowed consumers to act sooner and faster to reduce their fossil fuel consumption, and would
 have stimulated consumer demand for non-carbon energy alternatives whose use does not imperil
 the Earth. This process is now stutteringly underway, but was wrongfully delayed by Defendants'
 deception and continued downplaying of the reality and severity of climate change—and of fossil
 fuels' role in causing it.

6 115. Several key events during the period 1988–1992 appear to have prompted
7 Defendants to change their tactics from general research and internal discussion on climate change
8 to a public campaign aimed at shaping consumer attitudes concerning their fossil fuel products
9 and/or emissions therefrom. These include:

a. In 1988, National Aeronautics and Space Administration (NASA) scientists
confirmed that human activities were actually contributing to global warming.⁹⁴ On June 23 of that
year, NASA scientist James Hansen's presentation of this information to Congress engendered
significant news coverage and publicity for the announcement, including coverage on the front
page of the New York Times.

b. On July 28, 1988, Senator Robert Stafford and four bipartisan co-sponsors
introduced S. 2666, "The Global Environmental Protection Act," to regulate CO₂ and other
greenhouse gases. Four more bipartisan bills to significantly reduce CO₂ pollution were introduced
over the following ten weeks, and in August, U.S. Presidential candidate George H.W. Bush
pledged that his presidency would "combat the greenhouse effect with the White House effect."⁹⁵
Political will in the United States to reduce anthropogenic greenhouse gas emissions and mitigate
the harms associated with Defendants' fossil fuel products was gaining momentum.

c. In December 1988, the United Nations formed the Intergovernmental Panel
on Climate Change (IPCC), a scientific panel dedicated to providing the world's governments with
an objective, scientific analysis of climate change and its environmental, political, and economic
impacts.

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27 ⁹⁴ <u>See</u> Frumhoff et al. (2015), <u>supra</u> note 25, at 161.

 ⁹⁵ N.Y. Times, <u>The White House and the Greenhouse</u>, May 9, 1998, http://www.nytimes.com/1989/05/09/opinion/the-white-house-and-the-greenhouse.html.

1	d. In 1990, the IPCC published its First Assessment Report on anthropogenic
2	climate change, ⁹⁶ in which it concluded that (1) "there is a natural greenhouse effect which already
3	keeps the Earth warmer than it would otherwise be," and (2) that
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5	emissions resulting from human activities are substantially
6	increasing the atmospheric concentrations of the greenhouse gases carbon dioxide, methane, chlorofluorocarbons (CFCs) and nitrous
7	oxide. These increases will enhance the greenhouse effect, resulting on average in an additional warming of the Earth's surface. The main
	greenhouse gas, water vapour, will increase in response to global warming and further enhance it. ⁹⁷
8	The IPCC reconfirmed these conclusions in a 1992 supplement to the First
9	Assessment report. ⁹⁸
10	e. The United Nations began preparation for the 1992 Earth Summit in Rio de
11	Janeiro, Brazil, a major, newsworthy gathering of 172 world governments, of which 116 sent their
12	
13	heads of state. The Summit resulted in the United Nations Framework Convention on Climate
14	Change (UNFCCC), an international environmental treaty providing protocols for future
15	negotiations aimed at "stabiliz[ing] greenhouse gas concentrations in the atmosphere at a level that
16	would prevent dangerous anthropogenic interference with the climate system."99
17	116. But rather than issuing warnings commensurate with their own understanding of
18	the risks posed by the expected and intended uses of fossil fuel products, Defendants embarked on
19	a decades-long series of campaigns designed to maximize continued dependence on their products.
20	117. Defendants' campaigns, which focused on concealing, discrediting, and/or
20	misrepresenting information that tended to support restricting consumption of (and thereby
21	decreasing demand for) Defendants' fossil fuel products, took several forms. The campaigns
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24	⁹⁶ <u>See</u> IPCC, <u>Reports</u> , http://www.ipcc.ch/publications_and_data/publications_and_data_reports.shtml.
25	⁹⁷ IPCC, <u>Climate Change: The IPCC Scientific Assessment</u> , Policymakers Summary (1990),
26	http://www.ipcc.ch/ipccreports/far/wg_I/ipcc_far_wg_I_spm.pdf. ⁹⁸ IPCC, <u>1992 IPCC Supplement to the First Assessment Report</u> (1992),
27	http://www.ipcc.ch/publications_and_data/publications_ipcc_90_92_assessments_far.shtml.
28	⁹⁹ United Nations, <u>United Nations Framework Convention on Climate Change</u> , Article 2 (1992), https://unfccc.int/resource/docs/convkp/conveng.pdf.
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1 enabled Defendants to accelerate their business practice of exploiting fossil fuel reserves, and to concurrently externalize the social and environmental costs of their fossil fuel products. These 2 3 activities directly contradicted Defendants' internal recognition that the science of anthropogenic 4 climate change was clear and that the greatest uncertainties involved responsive human behavior, 5 not scientific understanding of the issue.

118. Defendants—both on their own and jointly through industry and front groups such 6 as API, ICE, and the GCC-funded, conceived, planned, and carried out a sustained and 7 8 widespread campaign of denial and disinformation about the existence of climate change and their 9 products' contribution to it. The campaign included a long-term pattern of direct misrepresentations and material omissions to consumers, as well as a plan to influence consumers 10 indirectly by affecting public opinion through the dissemination of misleading research to the 11 press, government, and academia. Although Defendants were competitors in the marketplace, they 12 combined and collaborated with each other and with API on this public campaign to misdirect and 13 14 stifle public knowledge in order to increase sales and protect profits. The effort included promoting hazardous fossil fuel products through advertising campaigns that failed to warn of the existential 15 16 risks associated with the use of those products, and that were designed to influence consumers to continue using Defendants' fossil fuel products irrespective of those products' damage to 17 communities and the environment. 18 19 119. In a secretly recorded video from 2021, an Exxon executive stated: 20 Did we aggressively fight against some of the science? Yes. Did we join some of these shadow groups to work against some of the early efforts? 21 Yes, that's true. There's nothing illegal about that. 22 We were looking out for our investments. We were looking out for our shareholders.¹⁰⁰ 23

25 Position," which included among others, two important messaging tenets: (1) "[e]mphasize the

In 1988, Joseph Carlson, an Exxon public affairs manager, described the "Exxon

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¹⁰⁰ Jeff Brady, Exxon Lobbyist Caught on Video Talking About Undermining Biden's Climate 27 Push, NPR (July 1, 2021, 11:37 AM ET), https://www.npr.org/2021/07/01/1012138741/exxon-28 lobbyist-caught-on-video-talks-about-undermining-bidens-climate-push.

uncertainty in scientific conclusions regarding the potential enhanced Greenhouse Effect;" and (2) 1 "[r]esist the overstatement and sensationalization [sic] of potential greenhouse effect which could 2 lead to noneconomic development of non-fossil fuel resources."101 3

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Reflecting on his time as an Exxon consultant in the 1980s, Professor Martin 121. Hoffert, a former New York University physicist who researched climate change, expressed regret over Exxon's "climate science denial program campaign" in his sworn testimony before Congress: [O]ur research [at Exxon] was consistent with findings of the United Nations Intergovernmental Panel on Climate Change on human impacts of fossil fuel

burning, which is that they are increasingly having a perceptible influence on 8 Earth's climate... If anything, adverse climate change from elevated CO_2 is 9 proceeding faster than the average of the prior IPCC mild projections and fully consistent with what we knew back in the early 1980's at Exxon. ... I was greatly 10 distressed by the climate science denial program campaign that Exxon's front office 11 launched around the time I stopped working as a consultant—but not collaborator for Exxon. The advertisements that Exxon ran in major newspapers raising doubt 12 about climate change were contradicted by the scientific work we had done and 13 continue to do. Exxon was publicly promoting views that its own scientists knew were wrong, and we knew that because we were the major group working on this.¹⁰² 14

122. Likewise, Shell "shaped a series of influential industry-backed publications that 15 downplayed or omitted key risks; emphasized scientific uncertainties; and pushed for more fossil 16 fuels, particularly coal."¹⁰³ In 1992, for instance, Shell released a publication for wide external 17 distribution purporting to describe the "Basic Scientific Facts" of the "Potential Augmented 18

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21 ¹⁰¹ Joseph M. Carlson, Exxon Memo on "The Greenhouse Effect" (Aug. 3, 1988), 22 https://assets.documentcloud.org/documents/3024180/1998-Exxon-Memo-on-the-Greenhouse-Effect.pdf. 23 ¹⁰² Examining the Oil Industry's Efforts to Suppress the Truth About Climate Change, Hearing 24 Before the Subcomm. On Civil Rights and Civil Liberties of the Comm. On Oversight and

Reform, 116th Cong. 7-8 (Oct. 23, 2019) (statement of Martin Hoffert, Former Exxon 25 Consultant, Professor Emeritus, Physics, New York University),

https://oversight.house.gov/legislation/hearings/examining-the-oil-industry-s-efforts-to-suppress-26 the-truth-about-climate-change.

¹⁰³ Matthew Green, Lost Decade: How Shell Downplayed Early Warnings Over Climate Change, 27 DESMOG (Mar. 31. 2023), https://www.desmog.com/2023/03/31/lost-decade-how-shell-28 downplayed-early-warnings-over-climate-change/.

Greenhouse Effect."¹⁰⁴ This document downplayed the scientific consensus (that Shell internally 1 2 acknowledged) by referring to the "relatively few established scientific fundamentals" regarding the causes of climate change.¹⁰⁵ It also misleadingly suggested that a "particular cause" of global 3 warming was "difficult" to identify, even though Shell had identified the use of its products as a 4 significant contributor to the greenhouse effect in the previous decade.¹⁰⁶ (For example, in 1985, 5 a Shell UK environmental scientist had published an article laying out the scientific fact that 6 7 "[b]urning of fossil fuels which have taken millions of years to form has effectively upset the balance [of the Carbon Cycle] leading to an increase in CO2 in the atmosphere."¹⁰⁷). 8

9 123. A 1994 Shell report entitled "The Enhanced Greenhouse Effect: A Review of the
10 Scientific Aspects" similarly emphasized scientific uncertainty, noting, for example, that "the
11 postulated link between any observed temperature rise and human activities has to be seen in
12 relation to natural variability, which is still largely unpredictable."¹⁰⁸

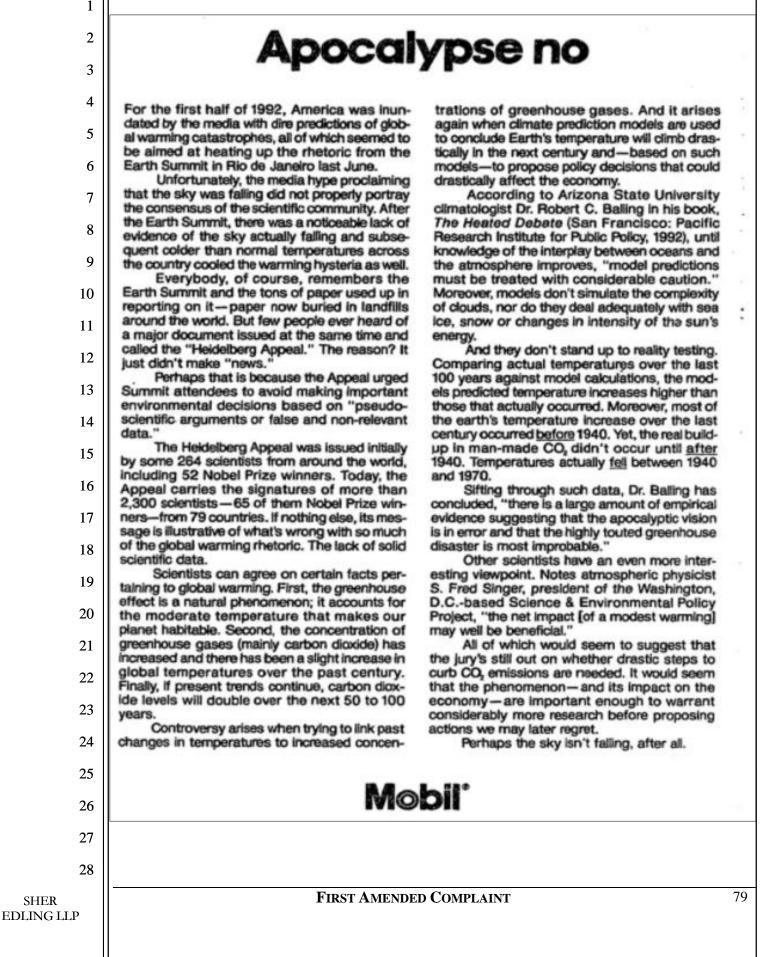
In 1996, Exxon released a publication called "Global Warming: Who's Right? Facts about a debate
that's turned up more questions than answers." In the publication's preface, Exxon CEO Lee
Raymond stated that "taking drastic action immediately is unnecessary since many scientists agree
there's ample time to better understand the climate system." The subsequent article described the
greenhouse effect as "unquestionably real and definitely a good thing," while ignoring the severe
consequences that would result from the influence of the increased CO₂ concentration on the
Earth's climate. Instead, it characterized the greenhouse effect as simply "what makes the earth's

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21 ¹⁰⁴ Jan Kuvper, Shell Group Planning, Business Environment Occasional Paper, Potential 22 Augmented Greenhouse Effect: Basic Scientific Facts (Sept. 1992), at 3, https://www.documentcloud.org/documents/24359060-1992-internal-shell-group-planning-23 report-potential-augmented-greenhouse-effect-and-depletion-of-the-ozone-layer ¹⁰⁵ Id. at 5. 24 ¹⁰⁶ Id. 25 ¹⁰⁷ T.G. Wilkinson, Why and How to Control Energy Pollution: Can Harmonisation Work?, 8 Conservation & Recycling 7, 19 (1985), https://www.documentcloud.org/documents/24359067-26 1985-03-why-and-how-to-control-energy-pollution-by-tg-wilkinson-shell. ¹⁰⁸ P. Langcake, Shell Internationale Petroleum, The Enhanced Greenhouse Effect: A Review of 27 the Scientific Aspects (Dec. 1994), https://www.documentcloud.org/documents/4411099-28 Document11.html#document/p15/a411511.

1	atmosphere livable." Directly contradicting their own internal reports and peer-reviewed science,
2	the article ascribed the rise in temperature since the late 19th century to "natural fluctuations that
3	occur over long periods of time" rather than to the anthropogenic emissions that Exxon and other
4	scientists had confirmed were responsible. The article also falsely challenged the computer models
5	that projected the future impacts of fossil fuel product consumption, including those developed by
6	Exxon's own employees, as having been "proved to be inaccurate." The article contradicted the
7	numerous reports circulated among Exxon's staff, and by API, by stating that "the indications are
8	that a warmer world would be far more benign than many imagine moderate warming would
	reduce mortality rates in the US, so a slightly warmer climate would be more healthful." Raymond
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10	concluded his preface by attacking the basis for reducing consumption of his company's fossil fuel
11	products as "drawing on bad science, faulty logic, or unrealistic assumptions"—despite the
12	important role that Exxon's own scientists had played in compiling those same scientific
13	underpinnings. ¹⁰⁹
14	124. Imperial Oil CEO Robert Peterson falsely denied the established connection
15	between Defendants' fossil fuel products and anthropogenic climate change in the Summer 1998
16	Imperial Oil Review, "A Cleaner Canada":
17	[T]his issue [referring to climate change] has absolutely nothing to do with
18	pollution and air quality. Carbon dioxide is not a pollutant but an essential ingredient of life on this planet [T]he question of whether or not the trapping
19	of greenhouse gases will result in the planet's getting warmerhas no connection
20	whatsoever with our day-to-day weather.
21	There is absolutely no agreement among climatologists on whether or not the planet is getting warmer, or, if it is, on whether the warming is the result of man-made
22	factors or natural variations in the climate I feel very safe in saying that the
23	view that burning fossil fuels will result in global climate change remains an unproved hypothesis. ¹¹⁰
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26	¹⁰⁹ Exxon Corp., <u>Global warming: who's right?</u> (1996),
27	https://www.documentcloud.org/documents/2805542-Exxon-Global-Warming-Whos-Right.html. ¹¹⁰ Robert Peterson, <u>A Cleaner Canada</u> in <u>Imperial Oil Review</u> (Summer 1998),
28	http://www.documentcloud.org/documents/2827818-1998-Imperial-Oil-Robert-Peterson-A-Cleaner-Canada.html.
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1	125. Exxon and Mobil (Exxon) paid for a series of "advertorials," advertisements
2	located in the editorial section of <u>The New York Times</u> and meant to look like editorials rather
3	than paid ads. These ads discussed various aspects of the public discussion of climate change and
4	sought to undermine the justifications for tackling greenhouse gas emissions as unsettled science.
5	For example, the 1993 Mobil advertorial below argued that "what's wrong with so much of the
6	global warming rhetoric" is "[t]he lack of solid scientific data," and quoted a purportedly neutral
7	scientific expert who insisted that "there is a large amount of empirical evidence suggesting that
8	the apocalyptic vision is in error and that the highly touted greenhouse disaster is most
9	improbable."" ¹¹¹ It also quoted another purportedly neutral scientist who asserted that "the net
10	impact [of a modest warming] may yet be beneficial."
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28	¹¹¹ Mobil, <u>Apocalypse No</u> , N.Y. Times, A19 (Feb. 25, 1993), https://www.documentoloud.org/documento/257243_1003_2_2_25_mob_pvt_epocalypse_po
SHER	https://www.documentcloud.org/documents/357243-1993-2-25-mob-nyt-apocalypse-no. FIRST AMENDED COMPLAINT 78
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1	126. The first of those purportedly neutral scientific experts, Robert C. Balling	g,
2	acknowledged five years after the advertorial ran that he had received \$408,000 in research funding	ıg
3	from the fossil fuel industry over the past decade, including from Exxon. ¹¹² The second, S. Fre	ed
4	Singer, had previously been funded by tobacco companies to spread doubt about the scientific	ic
5	claim that exposure to second-hand smoke causes cancer. ¹¹³	
6	127. Many other Exxon and Mobil advertorials falsely or misleadingly characterized th	ıe
7	state of climate science research to the readership of The New York Times' op-ed page. A samp	le
8	of these untruthful statements includes:	
9	• "We don't know enough about the factors that affect global warming and the degree to which—if any—that man-made emissions (namely, carbon dioxide)	
10	contribute to increases in Earth's temperature." ¹¹⁴	
11	• "[G]reenhouse-gas emissions, which have a warming effect, are offset by	
12	another combustion product—particulates—which leads to cooling." ¹¹⁵	
13	• "Even after two decades of progress, climatologists are still uncertain how—or even if—the buildup of man-made greenhouse gases is linked to global	
14	warming. It could be at least a decade before climate models will be able to link greenhouse warming unambiguously to human actions. Important answers on	
15	the science lie ahead." ¹¹⁶	
16	• "[I]t is impossible for scientists to attribute the recent small surface temperature	
17	increases to human causes." ¹¹⁷	
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19	¹¹² DeSmog, <u>Robert C. Balling, Jr.</u> , https://www.desmog.com/robert-c-balling-jr/.	
20	¹¹³ Naomi Oreskes & Erik M. Conway, <u>Merchants of Doubt: How a Handful of Scientists</u> Obscured the Truth on Issues from Tobacco Smoke to Global Warming, 150–54 (Bloomsbury	
21	Press, 1st ed. 2011).	
22	¹¹⁴ Mobil, <u>Climate change: a prudent approach</u> , N.Y. Times (Nov. 13, 1997), available at https://www.documentcloud.org/documents/705548-mob-nyt-1997-11-13-	
23	climateprudentapproach.html ¹¹⁵ Mobil, <u>Less Heat, More Light on Climate Change</u> , N.Y. Times (July 18, 1996), available at	
24	https://www.documentcloud.org/documents/705544-mob-nyt-1996-jul-18-	
25	lessheatmorelight.html. ¹¹⁶ Mobil, <u>Climate Change: Where We Come Out</u> , N.Y. Times (Nov. 20, 1997), available at	
26	https://www.documentcloud.org/documents/705549-mob-nyt-1997-11-20- ccwherewecomeout.html.	
27	¹¹⁷ ExxonMobil, <u>Unsettled Science</u> (Mar. 23, 2000), reproduced in	
28	https://www.theguardian.com/environment/2021/nov/18/the-forgotten-oil-ads-that-told-us- climate-change-was-nothing.	
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"Within a decade, science is likely to provide more answers on what factors affect global warming, thereby improving our decision-making. We just don't have this information today. Answers to questions about climate change will require more reliable measurements of temperature at many places on Earth, better understanding of clouds and ocean currents along with greater computer power."118 128. A quantitative analysis of ExxonMobil's climate communications between 1989 and 2004 found that, while 83% of the company's peer-reviewed papers and 80% of its internal documents acknowledged the reality and human origins of climate change, 81% of its advertorials communicated doubt about those conclusions.¹¹⁹ ExxonMobil's tendency to contradict its own

9 peer-reviewed research in statements meant for lay audiences also appeared at a year-to-year scale.

10 Based on this "statistically significant" discrepancy between internal and external communications, the authors concluded that "ExxonMobil misled the public."¹²⁰ 11

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129. Defendants-individually and through API, other trade associations, and various 13 front groups—mounted a deceptive public campaign in order to continue wrongfully promoting 14 and marketing their fossil fuel products, despite their own knowledge and the growing national 15 and international scientific consensus about the hazards of doing so.

16 130. One of the key organizations formed by Defendants to coordinate the fossil fuel 17 industry's response to the world's growing awareness of climate change was the International 18 Petroleum Industry Environmental Conservation Association ("IPIECA"). In 1987, the IPIECA 19 formed a "Working Group on Global Climate Change" chaired by Duane LeVine, Exxon's 20 manager for science and strategy development. The Working Group also included Brian Flannery 21 from Exxon, Leonard Bernstein from Mobil, Terry Yosie from API, and representatives from BP, 22 Shell, and Texaco (Chevron). In 1990, the Working Group sent a strategy memo created by LeVine

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¹¹⁸ Mobil, Science: What We Know and Don't Know, (1997), reproduced in 25 https://www.theguardian.com/environment/2021/nov/18/the-forgotten-oil-ads-that-told-usclimate-change-was-nothing. 26

¹¹⁹ Geoffrey Supran & Naomi Oreskes, <u>Assessing ExxonMobil's Climate Change</u>

Communications (1977–2014), 12 Envtl. Research Letters, IOP Publishing Ltd. 12 (2017), 27 https://iopscience.iop.org/article/10.1088/1748-9326/aa815f/pdf. 28 ¹²⁰ I<u>d.</u>

to hundreds of oil companies around the world, including Defendants. This memo explained that,
 to forestall a global shift away from burning fossil fuels for energy, the industry should emphasize
 uncertainties in climate science, and the need for further research.¹²¹

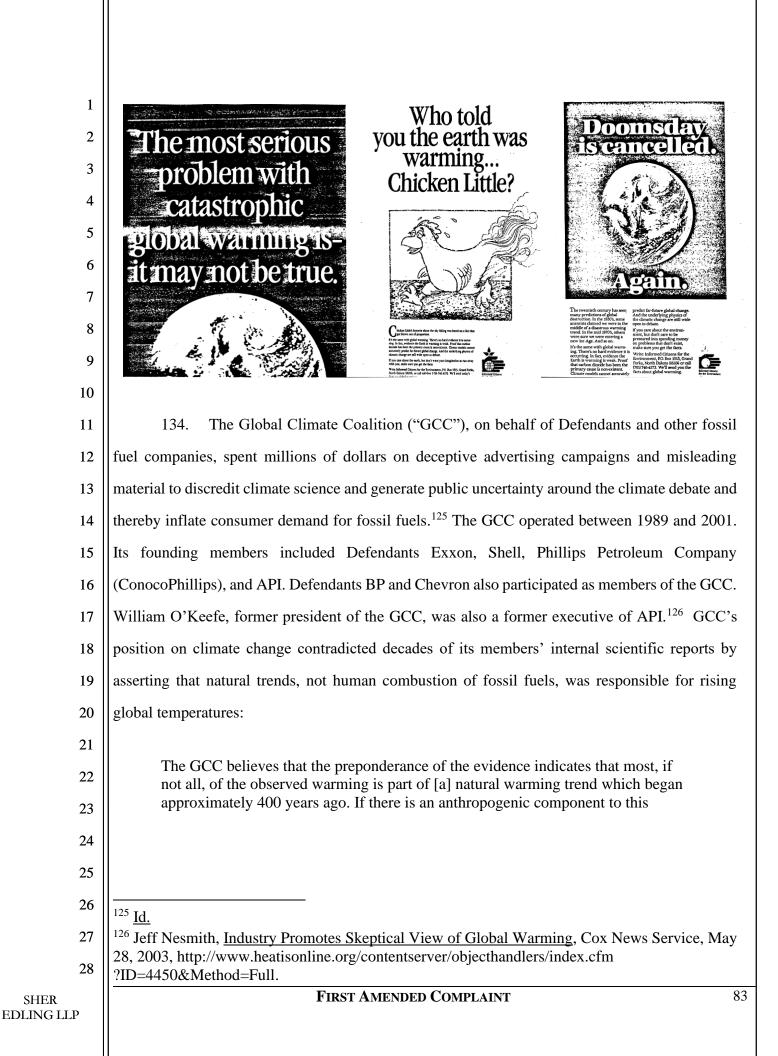
- In 1991, the Information Council for the Environment ("ICE"), whose members 4 131. included affiliates, predecessors and/or subsidiaries of Defendants, including Ohio Valley Coal 5 Company (Murray Energy), Pittsburg and Midway Coal Mining (Chevron), and Island Creek Coal 6 Company (Occidental), launched a national climate change science denial campaign with full-page 7 newspaper ads, radio commercials, a public relations tour schedule, "mailers," and research tools 8 to measure campaign success. Included among the campaign strategies was to "reposition global 9 warming as theory (not fact)." Its target audience included older less-educated males who are 10 "predisposed to favor the ICE agenda, and likely to be even more supportive of that agenda 11 following exposure to new info."¹²² 12
- 13 132. An implicit goal of ICE's advertising campaign was to change public opinion. A
 14 memo from Richard Lawson, president of the National Coal Association noted that "[p]ublic
 15 opinion polls reveal that 60% of the American people already believe global warming is a serious
 16 environmental problem. Our industry cannot sit on the sidelines in this debate."¹²³
- 17 133. The following images are examples of ICE-funded print advertisements
 18 challenging the validity of climate science, which sought to obscure the scientific consensus on
 19 anthropogenic climate change in order to inflate consumer demand for fossil fuels:¹²⁴

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- 23 ¹²¹ Benjamin A. Franta, <u>Big Carbon's Strategic Response to Global Warming, 1950–2020</u>, 140 (2022), https://purl.stanford.edu/hq437ph9153.
- ¹²² Id.
 ¹²³ Naomi Oreskes, <u>My Facts Are Better Than Your Facts: Spreading Good News about Global</u> Warming (2010), in Peter Howlett et al., <u>How Well Do Facts Travel?: The Dissemination of</u>
- 26 Reliable Knowledge, 136-166. Cambridge University Press. doi:10.1017/CBO9780511762154.008.8.
- 27 1¹²⁴ Union of Concerned Scientists, <u>Deception Dossier #5: Coal's "Information Council on the Environment" Sham</u>, 47–49 (1991),
 28 1¹²⁴ Union of Concerned Scientists, <u>Deception Dossier #5: Coal's "Information Council on the Environment" Sham</u>, 47–49 (1991),
 - http://www.ucsusa.org/sites/default/files/attach/2015/07/Climate-Deception-Dossier-5_ICE.pdf.



observed warming, the GCC believes that it must be very small and must be superimposed on a much larger natural warming trend.¹²⁷

- 3 135. The GCC's promotion of overt climate change skepticism also contravened its 4 internal assessment that such theories lacked scientific support. In December 1995, the GCC's 5 Science and Technology Advisory Committee ("GCC-STAC"), whose members included 6 employees of Mobil Oil Corporation (an Exxon predecessor) and API, drafted a primer on the 7 science of global warming for GCC members. The primer concluded that the GCC's contrarian 8 theories "do not offer convincing arguments against the conventional model of greenhouse gas 9 emission-induced climate change." However, the GCC excluded this section from the publicly 10 released version of the report.¹²⁸ Nonetheless, for years afterward, the GCC and its members 11 continued to tout their contrarian theories about global warming, even though the GCC had 12 admitted internally these arguments were invalid. Between 1989 and 1998, the GCC spent \$13 13 million on one ad campaign to obfuscate the public's understanding of climate science and 14 undermine its trust in climate scientists.¹²⁹ For example, the GCC distributed a video to hundreds 15 of journalists, which claimed that carbon dioxide emissions would increase crop production and 16 feed the hungry people of the world.¹³⁰ 17 In a 1994 public report, the GCC stated that "observations have not yet confirmed 136. 18 evidence of global warming that can be attributed to human activities," and that "[t]he claim that 19 serious impacts from climate change have occurred or will occur in the future simply has not been 20 21
- ¹²⁷ Global Climate Coalition, Global Climate Coalition: An Overview 2 (Nov. 1996), 22 http://www.climatefiles.com/denial-groups/global-climatecoalition-collection/1996-globalclimate-coalition-overview/. 23 ¹²⁸ Memorandum from Gregory J. Dana, Assoc. of Int'l Auto. Mfrs., to AIAM Technical 24 Committee, Global Climate Coalition (GCC) - Primer on Climate Change Science - Final Draft (Jan. 18, 1996), http://www.webcitation.org/6FyqHawb9. 25 ¹²⁹ Wendy E. Franz, Kennedy School of Government, Harvard University, Science, Skeptics and Non-State Actors in the Greenhouse, ENRP Discussion Paper E-98-18 13 (Sept. 1998), 26 https://www.belfercenter.org/sites/default/files/legacy/files/Science%20Skeptics%20and%20Non -State%20Actors%20in%20the%20Greenhouse%20-%20E-98-18.pdf. 27 ¹³⁰ SourceWatch, Global Climate Coalition, 28 http://www.sourcewatch.org/index.php/Global_Climate_Coalition (last edited Dec. 25, 2019). FIRST AMENDED COMPLAINT

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1	proven." ¹³¹ In 1994, the GCC Board of Directors was composed of high-level executives from
2	API, Exxon, Phillips Petroleum Company (ConocoPhillips), and Texaco (Chevron).
3	Representatives from Shell, Amoco (BP), and BP were also GCC members at that time. ¹³² In 1995,
4	the GCC published a booklet called "Climate Change: Your Passport to the Facts," which stated,
5	"[w]hile many warnings have reached the popular press about the consequences of a potential
6	man-made warming of the Earth's atmosphere during the next 100 years, there remains no
7	scientific evidence that such a dangerous warming will actually occur." ¹³³ In 1995, GCC's Board
8	of Directors included high-level executives from Texaco (Chevron), API, ARCO, and Phillips
9	Petroleum Company. ¹³⁴
10	137. In 1997, William O'Keefe, chairman of the GCC and executive vice president of
11	API, falsely wrote in a <u>Washington Post</u> op-ed, "[c]limate scientists don't say that burning oil, gas,
12	and coal is steadily warming the earth." ¹³⁵ This statement contradicted the established scientific
13	consensus as well as Defendants' own knowledge. Yet Defendants did nothing to correct the public
14	record, and instead continued to fund the GCC's anti-scientific climate skepticism.
15	138. In addition to publicly spreading false and misleading information about the climate
16	science consensus, the GCC also sought to undermine credible climate science from within the
17	IPCC. After becoming a reviewer of IPCC's Second Assessment Report in 1996, the GCC used
18	its position to accuse the convening author of a key chapter in the Report of modifying its
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20	¹³¹ GCC, <u>Issues and Options: Potential Global Climate Change</u> , <u>Climate Files</u> (1994), available at
21	http://www.climatefiles.com/denial-groups/global-climate-coalition-collection/1994-potential-
22	global-climate-change-issues. ¹³² <u>1994 GCC Board Member List and Background Information</u> , Climate Investigations Center,
23	https://www.climatefiles.com/denial-groups/global-climate-coalition-collection/1994-board- member-list-general-info/.
24	¹³³ GCC, <u>Climate Change: Your Passport to the Facts</u> , <u>Climate Files</u> (1995), available at
25	http://www.climatefiles.com/denial-groups/global-climate-coalition-collection/1995-climate- change-facts-passport.
26	¹³⁴ <u>1995 GCC IRS 1024 and Attachments</u> , Climate Investigations Center (1995), available at
27	https://www.documentcloud.org/documents/5798254-GCC-IRS-1023#document/p17 ¹³⁵ William O'Keefe, <u>A Climate Policy</u> , <u>The Washington Post</u> (July 5, 1997),
28	https://www.washingtonpost.com/archive/opinions/1997/07/05/a-climate-policy/6a11899a-c020-4d59-a185-b0e7eebf19cc/.
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conclusions. The GCC claimed that the author, climatologist Ben Santer, had engaged in
"scientific cleansing" that "understate[d] uncertainties about climate change causes and effect...
to increase the apparent scientific support for attribution of changes to climate to human
activities."¹³⁶ The GCC also arranged to spread the accusation among reporters, editors of
scientific journals, and even the op-ed page of the <u>Wall Street Journal</u>.¹³⁷ This effort "was widely
perceived to be an attempt on the part of the GCC to undermine the credibility of the IPCC."¹³⁸

139. In the late 1990s, Defendants shifted away from openly denying anthropogenic 7 warming toward peddling a subtler form of climate change skepticism. Defendants became 8 alarmed by significant legal judgments Big Tobacco now faced as a result of decades spent 9 publicly denying the health risks of smoking cigarettes, with a Shell employee explaining that the 10 company "didn't want to fall into the same trap as the tobacco companies who have become 11 trapped in all their lies."¹³⁹ Defendants began to shift their communications strategy, claiming they 12 had accepted climate science all along.¹⁴⁰ Several large fossil fuel companies, including BP and 13 Shell, left the GCC (although all Defendants remained members of API).¹⁴¹ At this point in time, 14 Defendants publicly claimed to accept the reality that the climate is changing (or Earth is warming) 15 and that climate change is anthropogenic. 16

17 140. Despite the shift in official public messaging, Defendants surreptitiously continued
18 to organize and fund programs designed to deceive the public about the weight and veracity of the
19 climate science consensus. In 1998, API convened a Global Climate Science Communications
20 Team ("GCSCT") whose members included representatives from Exxon, Chevron, and API.¹⁴²
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¹³⁶ Franz, <u>Science, Skeptics and Non-State Actors in the Greenhouse</u>, at 14.

- ¹³⁷ Naomi Oreskes & Erik Conway (2011), <u>supra</u> note 113, at 205–13 (2011); <u>see also</u> S. Fred Singer, <u>Climate Change and Consensus</u>, Science vol. 271, no. 5249 (Feb. 2, 1996); Frederick Seitz, <u>A Major Deception on 'Global Warming'</u>, Wall Street Journal (June 12, 1996).
 ¹³⁸ Franz, Science, Skeptics, and Non-State Actors in the Greenhouse, at 15.
- ²⁵ ¹³⁹ Nathaniel Rich, <u>Losing Earth: A Recent History</u>, London: Picador 186 (2020).
- $26 ||^{140}$ Franta (2022), <u>supra</u> note 121, at 170.
- 141 Id. at 177.
- ²⁷ In 1998, the GCC Board included executives from API, Amoco (BP), Chevron, Exxon, Mobil (Exxon), and Texaco (Chevron); and CEOs from ARCO (BP) and Amoco (BP) were on the

There were no scientists on the "Global Climate Science Communications Team." Steve Milloy 1 (a key player in the tobacco industry's front group) and his organization, The Advancement of 2 3 Sound Science Coalition ("TASSC"), were founding members of the GCSCT. TASSC was a fake 4 grassroots citizen group created by the tobacco industry to sow uncertainty by discrediting the 5 scientific link between exposure to second-hand cigarette smoke and increased rates of cancer and heart disease. Philip Morris had launched TASSC on the advice of its public relations firm, which 6 advised Philip Morris that the tobacco company itself would not be a credible voice on the issue 7 of smoking and public health. TASSC, through API and with the approval of Defendants, also 8 9 became a front group for the fossil fuel industry beyond its role in GCSCT, using the same tactics it had honed while operating on behalf of tobacco companies to spread doubt about climate science. 10 Although TASSC posed as a grassroots group of concerned citizens, it received significant funding 11 from Defendants. For example, between 2000 and 2004, Exxon donated \$50,000 to Milloy's 12 Advancement of Sound Science Center; and an additional \$60,000 to the Free Enterprise 13 14 Education Institute and \$50,000 to the Free Enterprise Action Institute, both of which were registered to Milloy's home address.¹⁴³ The GCSCT, including TASSC, represented a continuation 15 of Defendants' concerted actions to sow doubt and confusion about climate change in order to 16 inflate consumer demand for fossil fuels. 17

18 141. The GCSCT continued Defendants' efforts to expand the market for fossil fuels by
19 convincing the public that the scientific basis for climate change was in doubt. The multi-million20 dollar, multi-year plan, among other elements, sought to: (a) "[d]evelop and implement a national
21 media relations program to inform the media about uncertainties in climate science to generate
22 national, regional, and local media coverage on the scientific uncertainties"; (b) "[d]evelop a

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executive committee for API's Board of Directors, and high-level executives from
ConocoPhillips, ARCO, Anadarko, Marathon, BP, Shell, Chevron, Citgo, and Exxon also served as Board members; see 1998 GCC Membership, Climate Investigations Center,

- 26 https://www.climatefiles.com/denial-groups/global-climate-coalition-collection/1998membership/.
- ¹⁴³ Union of Concerned Scientists, <u>Smoke, Mirrors & Hot Air: How ExxonMobil Uses Big</u>
 <u>Tobacco's Tactics to Manufacture Uncertainty on Climate Science</u> (July 16, 2007), https://www.ucsusa.org/resources/smoke-mirrors-hot-air.

global climate science information kit for media including peer-reviewed papers that undercut the
'conventional wisdom' on climate science"; (c) "[p]roduce . . . a steady stream of op-ed columns";
and (d) "[d]evelop and implement a direct outreach program to inform and educate members of
Congress . . . and school teachers/students about uncertainties in climate science"¹⁴⁴—a blatant
attempt to deceive consumers and the general public in order to ensure a continued and unimpeded
market for their fossil fuel products.

142. Exxon, Chevron, and API directed and contributed to the development of the plan,
which plainly set forth the criteria by which the contributors would know when their efforts to
manufacture doubt had been successful. "Victory," they wrote, "will be achieved when ... average
citizens 'understand' (recognize) uncertainties in climate science" and "recognition of
uncertainties becomes part of the 'conventional wisdom."¹⁴⁵ In other words, the plan was part of
Defendants' goal to use disinformation to plant doubt about the reality of climate change in an
effort to maintain consumer demand for their fossil fuel products and their large profits.

14 143. In furtherance of these strategies, Defendants made misleading statements to
15 consumers about climate change, the relationship between climate change and their fossil fuel
16 products, and the urgency of the problem. Defendants made these statements in public fora and in
17 advertisements published in newspapers and other media with substantial circulation to Richmond
18 and California, including national publications such as <u>The New York Times</u>, <u>The Wall Street</u>
19 Journal, and <u>The Washington Post</u>.

144. Another key strategy in Defendants' efforts to discredit scientific consensus on
climate change and the IPCC was to bankroll scientists who, although accredited, held fringe
opinions that were even more questionable given the sources of their research funding. These
scientists obtained part or all of their research budget from Defendants directly or through

- 25
- ¹⁴⁴ Email from Joe Walker to Global Climate Science Team, <u>Draft Global Climate Science</u>
 <u>Communications Plan</u> (Apr. 3, 1998), https://assets.documentcloud.org/documents/784572/api-global-climate-science-communications-plan.pdf.
 ¹⁴⁵ Id.

Defendant-funded organizations like API,¹⁴⁶ but they frequently failed to disclose their fossil fuel
industry underwriters.¹⁴⁷ During the early- to mid-1990s, Exxon directed some of this funding to
Dr. Fred Seitz, Dr. Fred Singer, and/or Seitz and Singer's Science and Environmental Policy
Project ("SEPP") in order to launch repeated attacks on mainstream climate science and IPCC
conclusions, even as Exxon scientists participated in the IPCC.¹⁴⁸ Seitz, Singer, and SEPP had
previously been paid by the tobacco industry to create doubt in the public mind about the hazards
of smoking.¹⁴⁹ Seitz and Singer were not climate scientists.

At least one industry-funded scientist, Dr. Wei-Hock Soon, contractually agreed to 8 145. 9 allow donors to review his research before publication, and his housing institution agreed not to disclose the funding arrangement without prior permission from his fossil fuel donors.¹⁵⁰ Between 10 2001 and 2012, various fossil fuel interests, including Exxon and API, paid Soon over \$1.2 11 million.¹⁵¹ "Dr. Soon, in correspondence with his corporate funders, described many of his 12 scientific papers as 'deliverables' that he completed in exchange for their money."¹⁵² His 13 14 Defendant-funded research includes articles in scientific journals accusing the IPCC of overstating the negative environmental effects of carbon dioxide emissions and arguing that the sun is 15 responsible for recent climate trends. Soon was also the lead author of a 2003 article that argued 16 17 that the climate had not changed significantly. The article was widely promoted by other denial

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20 146 Willie Soon & Sallie Baliunas, Proxy Climatic and Environmental Changes of the Past 1000 Years, Climate Research 23, 88–110 (Jan. 31, 2003), http://www.int-

21 res.com/articles/cr2003/23/c023p089.pdf.

- ¹⁴⁷ Newsdesk, <u>Smithsonian Statement: Dr. Wei-Hock (Willie) Soon</u>, Smithsonian (Feb. 26,
- 22 2015), http://newsdesk.si.edu/releases/smithsonian-statement-dr-wei-hock-willie-soon.
- 148 Union of Concerned Scientists (2007), <u>supra</u> note 143.
 - ³ ¹⁴⁹ <u>S. Fred Singer</u>, SourceWatch (Feb. 25, 2020),
- 24 http://www.sourcewatch.org/index.php/S._Fred_Singer; http://www.sourcewatch.org/ index.php/Frederick_Seitz.
- ²⁵
 ¹⁵⁰ Union of Concerned Scientists, <u>Climate Deception Dossier #1: Dr. Wei-Hock Soon's</u>
 <u>Smithsonian Contracts</u>, (July 2015), https://perma.cc/JL2V-XYGL.
- ¹⁵¹ Justin Gillis & John Schwartz, <u>Deeper Ties to Corporate Cash for Doubtful Climate</u>
 Researcher, N.Y. Times (Feb. 21, 2015), https://www.nytimes.com/2015/02/22/us/ties-to-
- corporate-cash-for-climate-change-researcher-Wei-Hock-Soon.html?mcubz=1.
 ¹⁵² Id.

groups funded by Exxon, including via "Tech Central Station," a website supported by Exxon.¹⁵³
 Soon published other bogus "research" in 2009, attributing global warming to solar activity, for
 which Exxon paid him \$76,106.¹⁵⁴ This 2009 grant was made several years after Exxon had
 publicly committed not to fund global warming deniers.¹⁵⁵

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146. Defendants intended for the papers of authors they funded to be distributed to and relied on by consumers when buying Defendants' products, including by consumers in Richmond.

147. Defendants have also funded dozens of think tanks, front groups, lobbyists, and
dark money foundations pushing climate change denial. These include the Competitive Enterprise
Institute, the Heartland Institute, Frontiers for Freedom, Committee for a Constructive Tomorrow,
and Heritage Foundation. From 1998 to 2014, ExxonMobil spent almost \$31 million funding
numerous organizations misrepresenting the scientific consensus that Defendants' fossil fuel
products were causing climate change, sea level rise, and injuries to Richmond, among other
coastal communities.¹⁵⁶

14 148. Philip Cooney, an attorney at API from 1996 to 2001, testified at a 2007
15 Congressional hearing that it was "typical" for API to fund think tanks and advocacy groups that
16 minimized fossil fuels' role in causing climate change.¹⁵⁷

17 149. Creating a false sense of disagreement in the scientific community (despite the
18 consensus that its own scientists, experts, and managers had previously acknowledged) has had an
19 evident impact on public opinion. A 2007 Yale University-Gallup poll found that while 71% of

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21 ¹⁵³ Union of Concerned Scientists (2007), <u>supra</u> note 143, at 13–14. ¹⁵⁴ Willie Soon FOIA Grants Chart (Feb. 8, 2011), available at

https://www.documentcloud.org/documents/682765-willie-soon-foia-grants-chart-02-08-2011.html.

¹⁵⁵ Formerly found at

24 http://www.socialfunds.com/shared/reports/1211896380_ExxonMobil_2007_ Corporate_Citizenship_Report.pdf.

²⁵ ¹⁵⁶ ExxonSecrets.org, <u>ExxonMobil Climate Denial Funding 1998–2014</u>,

- 26 http://exxonsecrets.org/html/index.php.
- ¹⁵⁷ <u>Allegations of Political Interference with Government Climate Change Science: Hearing</u>
 <u>Before the Comm. on Oversight and Government Reform</u>, 110th Cong. 324 (Mar. 19, 2007)
 (statement of Philip A. Cooney), https://www.govinfo.gov/content/pkg/CHRG-

Americans personally believed global warming was happening, only 48% believed that there was 1 a consensus among the scientific community, and 40% believed there was a lot of disagreement 2 among scientists over whether global warming was occurring.¹⁵⁸ Eight years later, a 2015 Yale-3 George Mason University poll found that "[o]nly about one in ten Americans understands that 4 nearly all climate scientists (over 90%) are convinced that human-caused global warming is 5 happening, and just half . . . believe a majority do."¹⁵⁹ Further, it found that 33% of Americans 6 believe that climate change is mostly due to natural causes, compared to the 97% of peer-reviewed 7 papers that acknowledge that global warming is real and at least partly human-caused.¹⁶⁰ The lack 8 9 of progress, and even regress, in the public understanding of climate science over this period during which Defendants professed to accept the conclusions of mainstream climate science— 10 testifies to the success of Defendants' deception campaign in thwarting dissemination of accurate 11 12 scientific expertise to the public regarding the effects fossil fuel consumption. 150. Beginning in 2015, journalists began to uncover mounting evidence of Defendants' 13 14 campaign of deception. In September 2015, journalists at Inside Climate News reported that, as far back as the 1970s, Exxon had sophisticated knowledge of the causes and consequences of 15 climate change and of the role its products played in contributing to climate change.¹⁶¹ 16 151. Between October and December 2015, several journalists at the Energy and 17 Environment Reporting Project at Columbia University's Graduate School of Journalism and the 18 19 Los Angeles Times also exposed the fact that, as far back as the 1970s, Exxon and other members 20 21 22 ¹⁵⁸ American Opinions on Global Warming: A Yale/Gallup/Clearvision Poll, Yale Program on 23 Climate Change Communication (July 31, 2007), http://climatecommunication.yale.edu/publications/american-opinions-on-global-warming/. 24 ¹⁵⁹ Leiserowitz et al., Climate Change in the American Mind (Yale Program on Climate Change 25 Comm. & Geo. Mason U., Ctr. for Climate Change Comm eds., Oct. 2015), https://climatecommunication.yale.edu/wp-content/uploads/2015/11/Climate-Change-American-26 Mind-October-20151.pdf. ¹⁶⁰ Id. at 7. 27 161 Neela Banerjee et al., Exxon: The Road Not Taken, INSIDE CLIMATE NEWS, 28 https://insideclimatenews.org/project/exxon-the-road-not-taken/. FIRST AMENDED COMPLAINT 91 EDLING LLP

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of the fossil fuel industry had superior knowledge of the causes and consequences of climate
 change and the role their products played in causing it.¹⁶²

In November 2017, the Center for International Environmental Law issued a report
revealing that Defendants, including API, had superior knowledge of the causes and consequences
of climate change and the role fossil fuel products played in causing it as early as the 1970s.¹⁶³

In September 2023, the <u>Wall Street Journal</u> reported that Exxon worked "behind
closed doors" to sow public doubt about climate change. The article was based on "documents
reviewed by the Journal, which haven't been previously reported."¹⁶⁴

9 10

D. Defendants Could Have Chosen to Facilitate, and Be Part of, a Lower-Carbon Future, but Instead Chose Corporate Profits and Continued Deception

11 154. Defendants could have contributed to the global effort to mitigate the impacts of
12 greenhouse gas emissions by, for example, issuing warnings commensurate with their own
13 understanding of the risks posed by the expected and intended uses of fossil fuel products. Instead,
14 Defendants undertook a momentous effort to deceive consumers and the public about the
15 existential hazards of burning fossil fuels– all with the purpose and effect of perpetuating and
16 hyperinflating fossil fuel consumption and delaying the advent of alternative energy sources not
17 based on fossil fuels.

18 155. As a result of Defendants' tortious, false and misleading conduct, consumers of
19 Defendants' fossil fuel products in Richmond, as elsewhere, have been deliberately and
20 unnecessarily deceived about: the role of fossil fuel products in causing global warming, sea level
21 rise, disruptions to the hydrologic cycle, and increased extreme precipitation, heat waves, drought,
22 and other consequences of the climate crisis; the acceleration of global warming since the mid-

23

24 ¹⁶² The <u>Los Angeles Times</u> published a series of three articles between October and December 2015.

- ²⁵ ¹⁶³ Carol Muffett & Steven Feit, <u>Smoke and Fumes: The Legal and Evidentiary Basis for Holding</u>
 ²⁶ <u>Big Oil Accountable for the Climate Crisis</u>, CENTER FOR INT'L ENV'T L. (2017), https://www.ciel.org/reports/smoke-and-fumes.
- 27 164 Christopher M. Matthews & Collin Eaton, <u>Inside Exxon's Strategy to Downplay Climate</u>
 28 Change, THE WALL STREET J. (Sept. 14, 2023), https://www.wsj.com/business/energy-oil/exxonclimate-change-documents-e2e9e6af.

1 twentieth century and the continuation thereof; and the fact that the continued increase in fossil 2 fuel consumption creates severe environmental threats and significant economic costs for coastal 3 communities, including Richmond. Consumers in Richmond and elsewhere have also been 4 deceived about the depth and breadth of the state of the scientific evidence on anthropogenic 5 climate change, and in particular about the strength of the scientific consensus demonstrating the role of fossil fuels in causing both climate change and a wide range of potentially destructive 6 impacts, including sea level rise, disruptions to the hydrologic cycle, extreme precipitation, heat 7 8 waves, drought, and associated consequences.

9 156. By sowing doubt about the future consequences of unrestricted fossil fuel
10 consumption, Defendants' deception campaign successfully delayed the transition to alternative
energy sources, which Defendants forecasted could penetrate half of a competitive energy market
in 50 years if allowed to develop unimpeded. This delay caused emission of huge amounts of
avoidable greenhouse gases, thereby ensuring that the damage caused by climate change will be
substantially more severe than if Defendants had acted forthrightly, commensurate with their
internal knowledge of climate risks.

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E. In Contrast to Their Denial and Downplaying the Risks of Climate Change in Public, Defendants' Internal Actions Demonstrate Their Awareness of and Intent to Profit from Uses of Fossil Fuel Products They Knew Were Hazardous.

19 157. In contrast to their public-facing efforts challenging the validity of the scientific consensus about anthropogenic climate change, Defendants' acts and omissions evidence their 20 internal acknowledgement of the reality of climate change and its likely consequences. Those 21 22 actions include, but are not limited to, making multi-billion-dollar infrastructure investments for 23 their own operations that acknowledge the reality of coming anthropogenic climate-related change. 24 Those investments included (among others), raising offshore oil platforms to protect against sea 25 level rise; reinforcing offshore oil platforms to withstand increased wave strength and storm severity; developing technology and infrastructure to extract, store, and transport fossil fuels in a 26 27 warming arctic environment; and developing and patenting designs for equipment intended to



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extract crude oil and/or natural gas in areas previously unreachable because of the presence of
 polar ice sheets.

3	158. For example, oil and gas reserves in the Artic that were not previously reachable
4	due to sea ice are becoming increasingly reachable as sea ice thins and melts due to climate
5	change. ¹⁶⁵ In 1973 Exxon obtained a patent for a cargo ship capable of breaking through sea ice ¹⁶⁶
6	and for an oil tanker ¹⁶⁷ designed specifically for use in previously unreachable areas of the Arctic.
7	159. In 1974, Chevron obtained a patent for a mobile arctic drilling platform designed
8	to withstand significant interference from lateral ice masses, ¹⁶⁸ allowing for drilling in areas with
9	increased ice floe movement due to elevated temperature.
10	160. That same year, Texaco (Chevron) worked toward obtaining a patent for a method
11	and apparatus for reducing ice forces on a marine structure prone to being frozen in ice through
12	natural weather conditions, ¹⁶⁹ allowing for drilling in previously unreachable Arctic areas that
13	would become seasonally accessible.
14	161. Shell obtained a patent for an Artic offshore platform adapted for conducting
15	operations in the Beaufort Sea in 1984. ¹⁷⁰
16	162. In 1989, Norske Shell, Royal Dutch Shell's Norwegian subsidiary, altered designs
17	for a natural gas platform planned for construction in the North Sea to account for anticipated sea
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20	¹⁶⁵ Henderson & Loe, <u>The Prospects and Challenges for Arctic Oil Development</u> , Oxford
21	Institute for Energy Studies (Nov. 2014) at 1, available at https://www.oxfordenergy.org/publications/the-prospects-and-challenges-for-arctic-
22	oildevelopment/.
23	¹⁶⁶ ExxonMobil Research Engineering Co., Patent <u>US3727571A</u> , <u>Icebreaking cargo vessel</u> , (granted Apr. 17, 1973) https://www.google.com/patents/US3727571.
24	¹⁶⁷ ExxonMobil Research Engineering Co., Patent <u>US3745960A</u> , <u>Tanker vessel</u> , (granted July
25	17, 1973) https://www.google.com/patents/US3745960. ¹⁶⁸ Chevron Research & Technology Co. Patent <u>US3831385A</u> , <u>Arctic offshore platform</u> (granted
26	Aug. 27, 1974) https://www.google.com/patents/US3831385. ¹⁶⁹ Texaco Inc. Patent <u>US3793840A</u> , <u>Mobile, arctic drilling and production platform</u> , (granted
27	Feb. 26, 1974) https://www.google.com/patents/US3793840.
28	¹⁷⁰ Shell Oil Co. Patent <u>US4427320A</u> , <u>Arctic offshore platform</u> , Shell Oil Company (granted Jan. 24, 1984) https://www.google.com/patents/US4427320.
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level rise. Those design changes were ultimately carried out by Shell's contractors, adding
 substantial costs to the project.¹⁷¹

a. The Troll field, off the Norwegian coast in the North Sea, was proven to
contain large natural oil and gas deposits in 1979, shortly after Norske Shell was approved by
Norwegian oil and gas regulators to operate a portion of the field.

b. In 1986, the Norwegian parliament granted Norske Shell authority to
complete the first development phase of the Troll field gas deposits, and Norske Shell began
designing the "Troll A" gas platform, with the intent to begin operation of the platform in
approximately 1995. Based on the very large size of the gas deposits in the Troll field, the Troll A
platform was projected to operate for approximately 70 years.

c. The platform was originally designed to stand approximately 100 feet above
sea level—the amount necessary to stay above waves in a once-in-a-century strength storm.

d. In 1989, Shell engineers revised their plans to increase the above-water
height of the platform by 3 to 6 feet, specifically to account for higher anticipated average sea
levels and increased storm intensity due to global warming over the platform's 70-year operational
life.¹⁷²

e. Shell projected that the additional 3 to 6 feet of above-water construction
would increase the cost of the Troll A platform by as much as \$40 million.

F. Defendants' Actions Have Slowed the Development of Alternative Energy Sources and Exacerbated the Costs of Adapting to and Mitigating the Adverse Impacts of the Climate Crisis.

163. As greenhouse gas pollution accumulates in the atmosphere, some of which does
 not dissipate for potentially thousands of years (namely CO₂), climate changes and consequent
 adverse environmental changes compound, and their frequencies and magnitudes increase. As

¹⁷¹ <u>Greenhouse Effect: Shell Anticipates A Sea Change</u>, N.Y. Times (Dec. 20, 1989)
 http://www.nytimes.com/1989/12/20/business/greenhouse-effect-shell-anticipates-a-sea change.html.

¹⁷² Id.; Amy Lieberman & Suzanne Rust, <u>Big Oil braced for global warming while it fought</u>
 regulations, L.A. Times (Dec. 31, 2015), http://graphics.latimes.com/oil-operations/.

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those adverse environmental changes compound and their frequencies and magnitudes increase,
 so too do the physical, environmental, economic, and social injuries resulting therefrom.

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164. Delayed societal development and adoption of alternative energy sources have
therefore increased environmental harms and increased the magnitude and cost to remediate harms
that have already occurred or are locked in by previous emissions. Therefore, Defendants'
campaign to obscure the science of climate change and to expand the use of fossil fuels greatly
increased and continues to increase the harms and rate of harms suffered by Plaintiffs. Had market
demand to transition away from fossil fuels—and for affordable, reliable sources of clean energy—
developed earlier, the subsequent impacts of climate change could have been avoided or mitigated.

165. Defendants have been aware for decades that clean energy presents a feasible 10 alternative to fossil fuels. In 1980, Exxon forecasted that non-fossil fuel energy sources, if pursued, 11 could penetrate half of a competitive energy market in approximately 50 years.¹⁷³ This internal 12 estimate was based on extensive modeling within the academic community, including research 13 14 conducted by the Massachusetts Institute of Technology's David Rose, which concluded that a transition to non-fossil energy could be achieved in around 50 years. Exxon circulated an internal 15 memo approving of Rose's conclusions, stating they were "based on reasonable assumptions."¹⁷⁴ 16 But instead of pursuing a clean energy transition or warning consumers about the dangers of 17 burning fossil fuels, Defendants chose to deceive consumers to preserve Defendants' profits and 18 19 assets. As a result, much time has been lost during which consumers and market forces would have 20 spurred a societal transition away from fossil fuels, which would have reduced or eliminated entirely the harmful effects of climate change in Richmond. 21

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166.

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- ²⁴ ¹⁷³ Shaw & McCall, <u>Exxon Research and Engineering Company's Technological Forecast: CO₂</u> Greenhouse Effect (Dec. 18, 1980) at 5, available at

The costs of inaction and the opportunities to confront anthropogenic climate

- 25 https://www.climatefiles.com/exxonmobil/1980-exxon-memo-on-the-co2-greenhouse-effectandcurrent-programs-studying-the-issue/.
- ¹⁷⁴ Exxon Research and Engineering Company, <u>Coordination and Planning Division, CO₂</u>
- 27 Greenhouse Effect: A Technical Review (Apr. 1, 1982) at 17–18, available at https://www.climatefiles.com/exxonmobil/1982-memo-to-exxon-management-about-co2-greenhouse-effect/.

1	change and sea level rise caused by normal consumption of their fossil fuel products were not lost
2	on Defendants. In a 1997 speech by John Browne, Group Executive for BP America, at Stanford
3	University, Browne described Defendants' and the entire fossil fuel industry's responsibility and
4	opportunities to reduce use of fossil fuel products, reduce global CO2 emissions, and mitigate the
5	harms associated with the use and consumption of such products:
6	A new age demands a fresh perspective of the nature of society and responsibility.
7	We need to go beyond analysis and to take action. It is a moment for change and
8	for a rethinking of corporate responsibility
9	[T]here is now an effective consensus among the world's leading scientists and
10	serious and well informed people outside the scientific community that there is a discernible human influence on the climate, and a link between the concentration
11	of carbon dioxide and the increase in temperature.
12	The prediction of the IPCC is that over the next century temperatures might rise by a further 1 to 3.5 degrees centigrade $[1.8^{\circ} - 6.3^{\circ} F]$, and that sea levels might rise
13	by between 15 and 95 centimetres [5.9 and 37.4 inches]. Some of that impact is probably unavoidable, because it results from current emissions
14	
15	[I]t would be unwise and potentially dangerous to ignore the mounting concern.
16	The time to consider the policy dimensions of climate change is not when the link between greenhouse gases and climate change is conclusively proven but when
17	the possibility cannot be discounted and is taken seriously by the society of which we are part
18	
19	We [the fossil fuel industry] have a responsibility to act, and I hope that through our actions we can contribute to the much wider process which is desirable and
20	necessary.
21	BP accepts that responsibility and we're therefore taking some specific steps.
22	To control our own emissions.
23	To fund continuing scientific research.
24	To take initiatives for joint implementation.
25	To develop alternative fuels for the long term.
26 27	And to contribute to the public policy debate in search of the wider global answers
27	And to contribute to the public policy debate in search of the wider global answers
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to the problem.¹⁷⁵

2 Despite Defendants' knowledge of the foreseeable, measurable harms associated 167. 3 with the consumption and use of their fossil fuel products, and despite the existence and 4 Defendants' knowledge of technologies and practices that could have helped to reduce the 5 foreseeable dangers associated with their fossil fuel products, Defendants continued to 6 misleadingly market and promote heavy fossil fuel use and conceal the connection between use of 7 their products and the climate crisis, dramatically increasing the cost of abatement. This campaign 8 was intended to and did reach and influence consumers, along with consumers elsewhere.

9 168. At all relevant times, Defendants were deeply familiar with opportunities to reduce 10 the use of their fossil fuel products, reduce global CO₂ emissions associated therewith, and mitigate 11 the harms associated with the use and consumption of such products. Examples of that recognition 12 include, but are not limited to, the following:

13

In 1961, Phillips Petroleum Company filed a patent application for a method a. 14 to purify gas, among other things, as "natural gas containing gasoline hydrocarbons can contain 15 undesirable amounts of sulfur and other compounds such as carbon dioxide which are undesirable 16 in the finished gasoline product."¹⁷⁶

17 In 1963, Esso (Exxon) obtained multiple patents on technologies for fuel b. cells, including on the design of a fuel cell and necessary electrodes,¹⁷⁷ and on a process for 18 increasing the oxidation of a fuel, specifically methanol, to produce electricity in a fuel cell.¹⁷⁸ 19

20 In 1970, Esso (Exxon) obtained a patent for a "low-polluting engine and drive system" that used 21 an interburner and air compressor to reduce pollutant emissions, including CO₂ emissions, from 22 gasoline combustion engines (the system also increased the efficiency of the fossil fuel products

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¹⁷⁵ John Browne, BP Climate Change Speech to Stanford, Climate Files (May 19, 1997), http://www.climatefiles.com/bp/bp-climate-change-speech-to-stanford/.

¹⁷⁶ Phillips Petroleum Co., Patent US3228874A: Method for recovering a purified component 25 from a gas (filed Aug. 22, 1961), https://patents.google.com/patent/US3228874. 26

¹⁷⁷ Patents, Fuel cell and fuel cell electrodes, Exxon Research Engineering Co. (Dec. 31, 1963) https://www.google.com/patents/US3116169. 27

¹⁷⁸ Patents, Direct production of electrical energy from liquid fuels, Exxon Research Engineering 28 Co. (Dec. 3, 1963) https://www.google.com/patents/US3113049.

used in such engines, thereby lowering the amount of fossil fuel product necessary to operate
 engines equipped with this technology).¹⁷⁹

c. In 1980, Imperial Oil wrote in its "Review of Environmental Protection
Activities for 1978–79": "There is no doubt that increases in fossil fuel usage and decreases in
forest cover are aggravating the potential problem of increased CO₂ in the atmosphere. Technology
exists to remove CO₂ from stack gases but removal of only 50% of the CO₂ would double the cost
of power generation."¹⁸⁰

8 d. A 1987 company briefing produced by Shell on "Synthetic Fuels and 9 Renewable Energy" noted that while "immediate prospects" were "limited," "nevertheless it is by 10 pursuing commercial opportunities now and in the near future that the valuable experience needed 11 for further development will be gained." The brief also noted that "the task of replacing oil 12 resources is likely to become increasingly difficult and expensive and there will be a growing need 13 to develop lean, convenient alternatives. Initially these will supplement and eventually replace 14 valuable oil products. Many potential energy options are as yet unknown or at very early stages of 15 research and development. New energy sources take decades to make a major global contribution. 16 Sustained commitment is therefore needed during the remainder of this century to ensure that new 17 technologies and those currently at a relatively early stage of development are available to meet 18 energy needs in the next century."¹⁸¹

e. A 1989 article in a publication from Exxon Corporate Research for
company use only stated: "CO₂ emissions contribute about half the forcing leading to a potential
enhancement of the Greenhouse Effect. Since energy generation from fossil fuels dominates

- ²³ ¹⁷⁹ James P. Meyer, <u>Summary of Carbon Dioxide Enhanced Oil Recovery (CO₂EOR) Injection</u>
 ²⁴ Well Technology, American Petroleum Institute, page 1,
- http://www.api.org/~/media/Files/EHS/climate-change/Summary-carbon-dioxide-enhanced-oil-recovery-well-tech.pdf.
- ¹⁸⁰ Imperial Oil Ltd., <u>Review of Environmental Protection Activities for 1978–1979</u> 2 (Aug. 6, 1980), http://www.documentcloud.org/documents/2827784-1980-Imperial-Oil-Review-of-Environmental.html#document/p2.
- ¹⁸¹ Synthetic Fuels and Renewable Energy, Shell Service Briefing, no. 2, 1987, https://assets.documentcloud.org/documents/4411089/Document2.pdf.

modern CO₂ emissions, strategies to limit CO₂ growth focus near term on energy efficiency and
long term on developing alternative energy sources. Practiced at a level to significantly reduce the
growth of greenhouse gases, these actions would have substantial impact on society and our
industry—near-term from reduced demand for current products, long term from transition to
entirely new energy systems."¹⁸²

6 169. Defendants could have taken other practical, cost-effective steps to reduce the risk
7 created by their fossil fuel products and marketing. These alternatives could have included, among
8 other measures:

a. Accepting scientific evidence on the validity of anthropogenic climate
change and the damages it will cause people and communities, including Plaintiffs, and the
environment. Mere acceptance of that information would have altered the debate from *whether* to
combat climate change and sea level rise to *how* to combat it; and avoided much of the public
confusion that has ensued over nearly 30 years, since at least 1988;

b. Forthrightly communicating with Defendants' shareholders, consumers,
banks, insurers, and Plaintiffs about the climatic hazards of Defendants' fossil fuel products that
were known to Defendants, which would have enabled those groups to make material, informed
decisions about whether and how to address climate change and sea level rise vis-à-vis Defendants'
products;

c. Refraining from affirmative efforts, whether directly, through coalitions, or
through front groups, to distort consumer awareness of the climatic dangers of fossil fuels, and to
cause many consumers and business leaders to think the relevant science was far less certain that
it actually was; and

d. Sharing their internal scientific research with consumers and the public, and
with other scientists and business leaders, so as to increase public understanding of the scientific
underpinnings of climate change its relation to Defendants' fossil fuel products.

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27 182 Brian Flannery, <u>Greenhouse Science</u>, <u>Connections: Corporate Research, Exxon Research and Engineering Company</u> (1989), http://www.climatefiles.com/exxonmobil/1989-exxon-mobil-article-technologys-place-marketing-mix.

1 2 G.

Defendants Intended for Consumers to Use Their Fossil Fuel Products in a Way Defendants Knew Was Harmful.

170. Consumer use of fossil fuel products, particularly by driving gasoline-powered cars 3 and other vehicles, is a significant contributor to climate change. However, as a result of 4 Defendants' sustained and widespread campaign of disinformation, many consumers have been 5 unaware of the magnitude of the threat posed by their use of fossil fuels, or of the relationship 6 between their purchasing behavior and climate change. 7

8 By misleading consumers about the climate impacts of using fossil fuel products, 171. 9 even to the point of claiming that certain of their products may benefit the environment, and by failing to disclose the climate risks associated with their purchase and use of those products, 10 11 Defendants have deprived and are continuing to deprive consumers of information about the 12 consequences of their purchasing decisions.

13

172. Defendants intended for consumers to rely on their omissions and concealments and to continue purchasing Defendants' fossil fuel products without regard for the damage such 14 15 products cause.

16 173. Knowledge of the risks associated with the routine use of fossil fuel products is 17 material to consumers' decisions to purchase and use those products. As with cigarettes, history 18 demonstrates that when consumers are made aware of the harmful effects or qualities of the 19 products they purchase, they often choose to stop purchasing them, to reduce their purchases, or 20 to make different purchasing decisions. This phenomenon holds especially true when products 21 have been shown to harm public health or the environment. For example, increased consumer 22 awareness of the role of pesticides in harming human health, worker health, and the environment 23 has spurred a growing market for food grown organically and without the use of pesticides. With 24 access to information about how their food is grown, consumers have demanded healthier choices, 25 and the market has responded.

26 174. A consumer who received accurate information that fossil fuel use was a primary 27 driver of climate change, and about the resultant dangers to the environment and to public health, 28 might have decreased the consumer's use of fossil fuel products and/or demanded lower-carbon

1 transportation options. Indeed, recent studies and surveys have found that consumers with 2 substantial awareness of climate change are largely willing "to change their consumption habits . . . to help reduce the impacts of climate change."¹⁸³ If consumers were aware of what the 3 Defendants knew about climate change when the Defendants knew it, consumers might have opted 4 5 to avoid or minimize airplane travel; avoid or combine car travel trips; carpool; switch to more fuel-efficient vehicles, hybrid vehicles, or electric vehicles; demand more charging infrastructure 6 for electric vehicles; use a car-sharing service; seek transportation alternatives all or some of the 7 8 time, if and when available (e.g., public transportation, biking, or walking); or adopt any 9 combination of these choices. In addition, informed consumers often attempt to contribute toward solving environmental problems by supporting companies that they perceive to be developing 10 "green" or more environmentally friendly products.¹⁸⁴ 11

12 175. As described herein, by casting doubt upon the scientific consensus on climate
13 change, Defendants deceived consumers about the relationship between consumption of fossil
14 fuels and climate change, and the magnitude of the threat posed by fossil fuel use. Consumers
15 equipped with complete and accurate knowledge about the climate and the public health effects of
16 continued consumption of fossil fuels would have likely formed a receptive customer base for
17 clean energy alternatives decades before such demand in fact developed. Instead, Defendants'
18 campaign of deception allowed them to exploit public uncertainty to reap substantial profits.

19 176. The delayed emergence of a scalable market for non-fossil fuel energy is
20 attributable to consumers' industry-induced ignorance of the reality and severity of the climatic

- 21
- ¹⁸³ The Conference Board, <u>Changes in Consumers' Habits Related to Climate Change May</u>
 <u>Require New Marketing and Business Models</u> (Oct. 26, 2022), https://www.conference-board.org/topics/consumers-attitudes-sustainability/changes-in- consumer-habits-related-to-climate-change.
- ¹⁸⁴ See, e.g., Leiserwitz et al., Program on Climate Change Communication, Yale University, and Center for Climate Change Communication, George Mason University, <u>Consumer Activism on</u> <u>Global Warming</u> (Sept. 2021), https://climatecommunication.yale.edu/wp-
- content/uploads/2021/12/consumer-activism-onglobal-warming-september-2021.pdf. About a
 third of American consumers surveyed report "reward[ing] companies that are taking steps to
 reduce global warming by buying their products" and "punish[ing] companies that are opposing
 steps to reduce global warming by not buying their products." <u>Id.</u> at 3.

consequences associated with normal use of fossil fuels. The societal transition to a low-carbon
economy would have been far cheaper and more efficient had Defendants publicly acknowledged
the conclusions reached by their own scientists and the broader scientific community. As a result
of this delay, huge quantities of avoidable greenhouse gas emissions have been released into the
atmosphere, causing greater total emissions, higher peak emissions, and all associated climatic
effects.

7 8

H. Defendants' Deceit Only Recently Came to Light, and Their Misconduct Is Ongoing.

9 177. The fact that Defendants and their proxies knowingly provided incomplete and
10 misleading information to the public, including consumers, only recently became discoverable due
11 to, among other things:

- a. Defendants' above-described deception campaign, which continues to this
 day;
- b. Defendants' concealment and misrepresentations regarding the fact that
 their products cause catastrophic harms; and
- 16 c. the fact that Defendants used front groups such as API, the GCC, and ICE
 17 to obscure their involvement in these actions, which put Plaintiffs off the trail of inquiry.
- 18 178. Moreover, Defendants' tortious misconduct—in the form of misrepresentations,
 19 omissions, and deceit—began decades ago and continues to this day. Now, rather than engaging
 20 in outright denials of the existence of climate change, Defendants deflect attention from their role
 21 in causing climate change by falsely portraying fossil fuel products as environmentally friendly,
 22 climate-friendly, or otherwise less environmentally damaging than those products really are.
- 179. Defendants have continued to mislead the public about the impact of fossil fuel
 products on climate change through "greenwashing." Through recent advertising campaigns and
 public statements in California and/or intended to reach California, including but not limited to
 online advertisements and social media posts, Defendants falsely and misleadingly portray these
 products as "green," and the Defendants portray themselves as climate-friendly energy companies
 that are deeply engaged in finding solutions to climate change. In reality, Defendants continue to

primarily invest in, develop, promote, and profit from fossil fuel products and heavily market those
 products to consumers, with full knowledge that those products will continue to exacerbate climate
 change harms.

4 180. Defendants' greenwashing exploits consumers' concerns about climate change and their desire to purchase "green" products and spend their consumer dollars on products and 5 businesses that are taking substantial and effective measures to combat climate change. 6 Defendants' false advertisements are likely to mislead consumers by giving the impression that in 7 purchasing the Defendants' fossil fuel products, consumers are supporting genuine, substantial, 8 9 and effective measures to mitigate climate change through these companies' alleged investments in clean energy. Defendants' greenwashing ultimately attempts to persuade consumers to support 10 Defendants' purported attempts to contribute to climate change solutions by purchasing and 11 12 consuming these products, including the Defendants' fossil fuel products.

13 181. As described above, Defendants, directly and/or through membership in other
14 organizations, continue to misrepresent their own activities, the fact that their products cause
15 climate change, and the danger presented by climate change. Exemplars of Defendants' continuing
16 misrepresentations, omissions, and deceit follow below.

17 182. As recently as June 2018, a post on the official Shell blog stated: "the potential
18 extent of change in the climate itself could now be limited. In other words, the prospect of runaway
19 climate change might have passed."¹⁸⁵ However, this statement is not supported by valid scientific
20 research, and was and is contradicted by various studies.¹⁸⁶

- 21
- 22 ¹⁸⁵ David Hone, Has Climate Change Run Its Course??, <u>Shell Climate Change Blog</u> (June 14, 2018), https://blogs.shell.com/2018/06/14/has-climate-change-run-its-course. 23 ¹⁸⁶ See, e.g., Fiona Harvey, <u>Carbon Emissions from Warming Soils Could Trigger Disastrous</u> 24 Feedback Loop, The Guardian (Oct. 5, 2017), https://www.theguardian.com/environment/2017/ oct/05/carbon-emissions-warming-soils-higher-than-estimated-signalling-tipping-points; 25 Jonathan Watts, Domino-Effect of Climate Events Could Move Earth into a 'Hothouse' State, The Guardian (Aug. 7, 2018), https://www.theguardian.com/environment/2018/aug/06/domino-26 effect-of-climate-events-could-push-earth-into-a-hothouse-state; Fiona Harvey, 'Tipping Points' 27 Could Exacerbate Climate Crisis, Scientists Fear, The Guardian (Oct. 9, 2018), https://www.theguardian.com/environment/2018/oct/09/tipping-points-could-exacerbate-climate-28 crisis-scientists-fear.

In March 2018, Chevron issued a report entitled "Climate Change Resilience: A 183. 1 2 Framework for Decision Making," which misleadingly stated that "[t]he IPCC Fifth Assessment 3 Report concludes that there is warming of the climate system and that warming is due in part to human activity."¹⁸⁷ In reality, the Fifth Assessment report concluded that "[i]t is *extremely likely* 4 [defined as 95–100% probability] that human influence has been the *dominant cause* of the 5 observed warming since the mid-20th century."¹⁸⁸ 6

184. Despite this fact, in April 2017, Chevron CEO and Chairman of the Board John 7 Watson said on a podcast, "There's no question there's been some warming; you can look at the 8 9 temperatures data and see that. The question and debate is around how much, and how much is caused by humans."189 10

185. Similarly, ConocoPhillips's "Climate Change Position" as it appeared on the 11 company's website through 2020 stated that human activity is "contributing to" climate change 12 and emphasizes "uncertainties," even though the science is clear: "ConocoPhillips recognizes that 13 14 human activity, including the burning of fossil fuels, is contributing to increased concentrations of greenhouse gases in the atmosphere that can lead to adverse changes in global climate.... While 15 uncertainties remain, we continue to manage greenhouse gas emissions in our operations and to 16 integrate climate change related activities and goals into our business planning."190 17

186. On May 27, 2015, at Exxon's annual shareholder meeting, then-CEO Rex Tillerson 18 misleadingly downplayed global warming's risks by stating that climate models used to predict 19 future impacts were unreliable: "What if everything we do it turns out our models are lousy, and 20 we don't get the effects we predict? Mankind has this enormous capacity to deal with adversity, 21

22

¹⁸⁷ Chevron, Climate Change Resilience: A Framework for Decision Making 20 (Mar. 2018), 23 https://www.chevron.com/-/media/shared-media/documents/climate-change-resilience.pdf. ¹⁸⁸ IPCC, Summary for Policymakers: Working Group I Contribution to the Fifth Assessment 24 Report 17 (2013), https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_SPM_FINAL.pdf. 25 ¹⁸⁹ Columbia Energy Exchange Podcast, John Watson, CEO, Chevron (Apr. 10, 2017), https://www.energypolicy.columbia.edu/us-energy-markets-policy. 26 ¹⁹⁰ ConocoPhillips, Climate Change Position (Oct. 28, 2020), https://web.archive.org/web/20201028115814/https://www.conocophillips.com/sustainability/int 27 egrating-sustainability/sustainable-development-governance/policies-positions/climate-change-28 position/. FIRST AMENDED COMPLAINT

and those solutions will present themselves as those challenges become clear."¹⁹¹ But as noted 1 2 above, in 1982 Exxon's scientific staff stated, based upon the climate models, that there was a "clear scientific consensus" with respect to the level of projected future global warming and 3 starting shortly thereafter Exxon relied upon the projections of climate models, including its own 4 climate models, in order to protect its own business assets. Tillerson's statement reached 5 consumers because it was reported in the press, including in California,¹⁹² as is common when 6 7 fossil fuel company CEOs make statements regarding climate change and as Exxon had reason to know would occur. 8

9 187. Until approximately early 2017, Exxon's website continued to emphasize the
10 "uncertainty" of global warming science and impacts: "current scientific understanding provides
11 limited guidance on the likelihood, magnitude, or time frame" of events like temperature extremes
12 and sea level rise.¹⁹³ Exxon's insistence on crystal-ball certainty was clear misdirection, since
13 Exxon knew that the fundamentals of climate science were well settled and showed global
14 warming to present a clear and present danger.¹⁹⁴

15 188. Until approximately early 2016, API's website referred to global warming as
16 "possible man-made warming" and claimed that the human contribution is "uncertain." API
17 removed this statement from its website in 2016 when journalistic investigations called attention
18 to API's misleading statements on global warming and its participation in the climate change Task
19 Force during the late 1970s and early 1980s.

- 20
- 21

22	¹⁹¹ Dallas Morning News, <u>Exxon CEO: Let's Wait for Science to Improve Before Solving</u> <u>Problem of Climate Change</u> (May 27, 2015),
	Problem of Climate Change (May 27, 2015),
23	https://www.dallasnews.com/business/energy/2015/05/28/. exxon-ceo-let-s-wait-for-science-to-improve-before-solving-problem-of-climate-change.
	exxon-ceo-let-s-wait-for-science-to-improve-before-solving-problem-of-climate-change.
24	¹⁹² See, e.g., David Koenig, Exxon shareholders to vote on climate change, fracking, San Diego
25	Union-Tribune (May 27, 2015) http://www.sandiegouniontribune.com/news/2015/may/27/
	¹⁹² <u>See, e.g.</u> , David Koenig, <u>Exxon shareholders to vote on climate change, fracking</u> , San Diego Union-Tribune (May 27, 2015) http://www.sandiegouniontribune.com/news/2015/may/27/ exxon-shareholders-to-vote-on-climate-change/.
26	¹⁹³ Formerly found at http://corporate.exxonmobil.com/en/current-issues/climate-policy/meeting-global-needs/managing-climate-change-business-risks.
	global-needs/managing-climate-change-business-risks.
27	¹⁹⁴ See IPCC, Climate Change 2014, Impacts, Adaptation, and Vulnerability, Summary for
•	Policymakers, available at http://www.ipcc.ch/pdf/assessment-
	report/ar5/wg2/ar5_wgII_spm_en.pdf.

1	189. Defendants bombard the public and consumers with the following advertisements,
2	although these are a mere sliver of Defendants' extensive campaigns. Defendants' advertisements
3	must be understood in their proper context—as following Defendants' substantial early knowledge
4	on global warming risks and impacts, and following a decades-long campaign of misleading
5	statements on global warming that primed the pump for massive use of their fossil fuel products.
6	a. Exxon's "Lights Across America" website advertisement states that natural
7	gas is "helping dramatically reduce America's emissions" ¹⁹⁵ even though natural gas is a fossil
8	fuel causing widespread planetary warming and harm to coastal cities like Richmond and the use
9	of natural gas competes with wind and solar, which have no greenhouse gas emissions.
10	b. In 2017, Shell's CEO promoted massive fossil fuel use by stating that the
11	fossil fuel industry could play a "crucial role" in lifting people out of poverty. ¹⁹⁶ A Shell website
12	promotion states: "We are helping to meet the world's growing energy demand while limiting
13	CO ₂ emissions, by delivering more cleaner-burning natural gas." ¹⁹⁷
14	c. BP touts natural gas on its website as "a vital lower carbon energy source"
15	and as playing a "crucial role" in a transition to a lower carbon future. ¹⁹⁸ BP promotes continued
16	massive fossil fuel use as enabling two billion people to be lifted out of poverty. ¹⁹⁹
17	d. Chevron's website implores the public that "we produce safe, reliable
18	energy products for people around the world."200 Chevron also promotes massive use of fossil
19	fuels as the key to lifting people out of poverty: "Reliable and affordable energy is necessary for
20	
21	¹⁹⁵ Formerly found at
22	https://www.youtube.com/watch?v=tMu1CBjXfq4&list=PLIrXlHj7zayYGaExfTp_ B4t6gqTtkGf9A&index=6 (at 0:46).
23	¹⁹⁶ <u>Shell CEO speech</u> , Mar. 9, 2017, http://www.shell.com/media/speeches-and-articles/2017/deliver-today-prepare-for-tomorrow.html.
24	¹⁹⁷ Shell United States, Transforming Natural Gas, http://www.shell.us/energy-and-
25	innovation/transforming-natural-gas.html. ¹⁹⁸ BP, <u>Sustainability Report 2016</u> (Apr. 6, 2017), https://www.bp.com/content/dam/bp/business-
26	sites/en/global/corporate/pdfs/sustainability/archive/archived-reports-and-translations/2016/bp-sustainability-report-2016.pdf.
27	¹⁹⁹ BP, Energy Outlook, http://www.bp.com/en/global/corporate/energy-economics/energy-
28	outlook.html. ²⁰⁰ Chevron, <u>Products and Services</u> , https://www.chevron.com/operations/products-services.
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improving standards of living, expanding the middle class and lifting people out of poverty. Oil
and natural gas will continue to fulfill a significant portion of global energy demand for decades
to come – even in a carbon-constrained scenario."²⁰¹ A prior Chevron advertisement still available
on the web promotes Chevron fossil fuels on a massive scale by stating that "our lives demand
oil."²⁰²

6

7

8

e. ConocoPhillips promotes its fossil fuel products by stating that it "responsibly suppl[ies] the energy that powers modern life."²⁰³ Similarly, ConocoPhillips has the following advertising slogan on its website: "Providing energy to improve quality of life."²⁰⁴

9 10

I. Richmond Has Suffered, Is Suffering, and Will Suffer Injuries From Defendants' Tortious Conduct.

11 190. Defendants' individual and collective conduct—including, but not limited to, their 12 failures to warn of the threats their fossil fuel products posed to the climate; their wrongful 13 promotion of fossil fuel products and their concealment of known hazards associated with the use 14 of those products; and their public deception campaigns designed to obscure the connection 15 between their products and climate change and its environmental, physical, social, and economic 16 consequences—is a direct and proximate cause that brought about or helped bring about climate 17 change and consequent harms to Richmond. Such harms include the increase in global mean 18 temperature and consequent increase in sea level rise and attendant flooding; and disruptions to 19 the hydrologic cycle, including, but not limited to, more frequent and extreme droughts, more 20 frequent and extreme precipitation events and resulting flooding, erosion, and landslides, higher 21 groundwater levels and an accompanying increased risk of contaminant spread from hazardous, 22 superfund, landfills, and similar sites, more frequent and extreme heat waves, reduced air quality;

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- 24 ²⁰¹ Chevron, <u>Managing Climate Change Risks</u>, https://www.chevron.com/corporate-25 responsibility/climate-change/managing-climate-risk
- 25 responsibility/climate-change/managing-climate-risk.
- 26 ²⁰² Chevron TV ad (2009), https://www.youtube.com/watch?v=-KyjTGMVTkA.
- ²⁰³ ConocoPhillips, <u>The Changing Energy Landscape</u>, http://www.conocophillips.com/who-we are/our-company/spirit-values/responsibility/Pages/the-changing-energy-landscape.aspx.
- 28 ²⁰⁴ ConocoPhillips, <u>Producing Energy</u>, http://www.conocophillips.com/what-we-do/producingenergy/Pages/default.aspx.

and the cascading social, economic, health, and other consequences of these environmental
 changes. These adverse impacts will continue to increase in frequency and severity in Richmond
 and disproportionately impact the City's most vulnerable communities.

4 191. The City of Richmond is uniquely situated in the northeastern corner of the San
5 Francisco Bay and is surround on three sides by water. Sea level in California, including
6 Richmond, will continue to rise significantly and dangerously through at least 2150.²⁰⁵

7 192. Without Defendants' fossil fuel-related greenhouse gas pollution, current sea level
8 rise would have been far less than the observed sea level rise to date.²⁰⁶ Similarly, committed sea
9 level rise that will occur in the future would also be far less.²⁰⁷

10 193. In addition, anthropogenic climate change is compressing precipitation within the
11 winter, which will create drier than normal conditions in the City during the rest of the year,
12 effectively extending the summer "dry" season and compressing the winter "wet" season.

13 194. California is moving toward a regime in which annual rainfall is increasingly either
14 extremely abundant or extremely lacking, with fewer "normal" rainfall years occurring in 1982–
15 2015 as compared to 1949–1981.²⁰⁸

16 195. The upshot is that approximately the same amount of rain will fall in a shorter
17 period via more intense storms in Richmond. The water supply generated from those events
18 evaporates more quickly, resulting in diminished surface water availability and diminished
19 groundwater recharge. In turn, this will diminish water supply for both human and ecological
20 demand. Decreased soil moisture will result in increased fuel aridity—that is, vegetation will dry
21 out quickly and completely in the absence of water, increasing its flammability.

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- 23
- 24 $||^{205}$ See Griggs et al. (2017), supra note 10, at 26, Table 1(b).
- ²⁰⁶ Robert E. Kopp et al., <u>Temperature-driven Global Sea-level Variability in the Common Era</u>,
 Proceedings of the National Academy of Sciences, Vol. 113, No. 11, E1434-E1441, E1438
 (2016), http://www.pnas.org/content/113/11/E1434.full.
- ²⁰ Peter U. Clark et al., <u>Consequences of Twenty-First-Century Policy for Multi-Millennial</u>
- 27 Climate and Sea-Level Change, Nature Climate Change Vol. 6, 365 (2016).
- ²⁰⁸ Daniel L. Swain et al., <u>Trends in Atmospheric Patters Conducive to Seasonal Precipitation</u> and <u>Temperature Extremes in California</u>, Science Advances, e10501344, at .5 (2016).

196. Because of anthropogenic global warming, Richmond's hydrologic regime is 1 2 shifting toward one characterized by more frequent and severe drought, more extreme precipitation 3 events, and more frequent and severe heatwaves, among other impacts.

4 197. Plaintiffs have already incurred, and will foreseeably continue to incur, injuries and 5 damages because of sea level rise and disruptions to the hydrologic cycle including increased frequency and severity of drought, increased frequency and severity of extreme precipitation 6 events, increased frequency and severity of heat waves, increased frequency and severity of 7 8 wildfires, increased public health hazards, and consequent social and economic injuries associated 9 with those physical and environmental changes, all of which have been caused and/or exacerbated by Defendants' conduct. 10

198. But for Defendants' conduct, Plaintiffs would have suffered no or far less injuries 11 and damages than they have, and will foreseeably endure, due to expected anthropogenic sea level 12 13 rise, disruption of the hydrologic cycle, and associated consequences of those physical and 14 environmental changes.

199. 15 Defendants have actually and proximately caused the sea levels to rise, increased 16 the destructive impacts of storm surges, increased coastal erosion, exacerbated the onshore impact of regular tidal ebb and flow, caused saltwater intrusion, disrupted the hydrologic cycle, caused 17 increased frequency and severity of drought, caused increased frequency and severity of extreme 18 19 precipitation events, caused increased frequency and severity of heat waves, and caused 20 consequent social and economic injuries associated with the aforementioned physical and environmental impacts, among other impacts, resulting in inundation, destruction, and/or other 21 22 interference with Plaintiffs' property and residents.

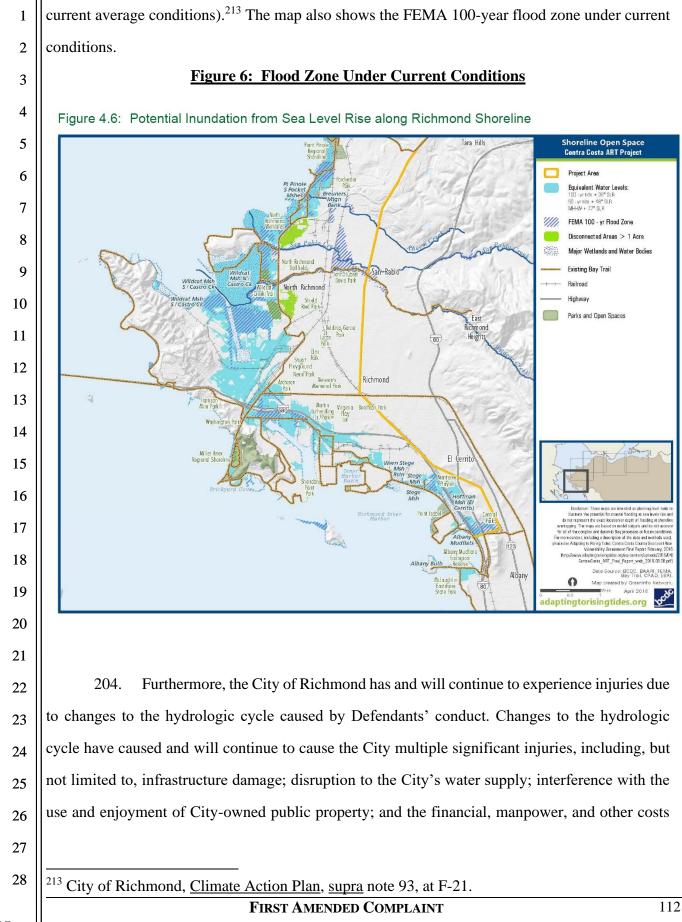
23 200. Plaintiffs have already incurred, and will foreseeably continue to incur, injuries, 24 and damages because of sea level rise and disruptions to the hydrologic cycle, including increased 25 frequency and severity of drought, increased frequency and severity of extreme precipitation events, increased frequency and severity of heat waves, and consequent social and economic 26 27 injuries associated with those physical and environmental changes, all of which have been caused and/or exacerbated by Defendants' conduct. 28

201. But for Defendants' conduct, Plaintiffs would have suffered no or far less injuries
 and damages than they have endured, and foreseeably will endure, due to anthropogenic sea level
 rise, disruption of the hydrologic cycle, and associated consequences of those physical and
 environmental changes.

202. Richmond has experienced significant sea level rise and associated impacts over 5 the last half century attributable to Defendants' conduct.²⁰⁹ Sea level rise endangers City property 6 7 and infrastructure, causing coastal flooding of low-lying areas, erosion, salinity intrusion, higher risk of liquefaction during seismic events, and storm surges. Several critical City facilities, existing 8 9 roadways, wastewater treatment facilities, residential neighborhoods, industrial areas including the Port of Richmond and the Chevron Refinery, highways, rail lines, emergency response facilities, 10 and parks have suffered and/or will suffer injuries due to sea level rise expected by the end of this 11 century. The City will experience additional, significant, and dangerous sea level rise through at 12 least the year 2150,²¹⁰ and the increases will continue and accelerate. Additionally, Richmond will 13 14 experience greater committed sea level rise due to the "locked in" greenhouse gases already emitted.²¹¹ The City will suffer greater overall sea level rise than the global average.²¹² 15

16 203. The City of Richmond is particularly vulnerable to the impacts of sea level rise
17 because of its substantial coastline and substantial low-lying areas East of Point Molate. The map
18 below depicts the areas of Richmond what would be inundated by three feet of sea level rise
19 augmented by a 100-year coastal flood, or by four feet of sea level rise augmented by a 50-year
20 extreme tide (with both events being equivalent to sea level rise of six-feet five-inches above

- 21 22
- 23
- 24 ²⁰⁹ <u>See</u> City of Richmond, <u>Climate Action Plan</u>, <u>supra</u> note 93, at F-8.
 - $||^{210}$ Griggs et al. (2017), <u>supra</u> note 10, at 26, Table 1(b).
- 25 $||^{211}$ Clark et al. (2016), <u>supra</u> note 207, at 363–65.
- 26 ²¹² Global sea level rise is projected to be 82.7 cm (32.6 inches) above 2000 levels by 2100. <u>See</u> National Research Council, <u>Sea-Level Rise for the Coasts of California, Oregon, and</u>
- 27 Washington: Past Present and Future (2012) at page 107 at Table 5.2; at 117 at Table 5.3. The San Francisco Bay Area sea level rise is projected to be 91.9 cm (36.2 inches) over 2000 by 2100. Id.



SHER EDLING LLP of planning for expected climatic changes and of responding to acute injuries to assets within the
 City.

205. Sea level rise-related and hydrologic cycle change-related impacts on public, industrial, commercial, and residential assets within the City have caused and will continue to cause injuries to the City, either directly, or through secondary and tertiary impacts that cause the City to expend resources in responding to these impacts, lose revenue due to decreased economic activity in the City, and suffer other injuries. Among the properties that have and/or will be injured by sea level rise, changes to the hydrologic cycle, and their related impacts, are:

9 a. Transportation Infrastructure: Sea level rise and flooding will damage main thoroughfares in the City, including, but not limited to, Interstates 580 (from the Castro Street 10 Interchange to the Contra Costa County line) and 80 (approach to the Carquinez Bridge and San 11 Pablo Avenue interchange) and surface streets the City of Richmond owns and manages in the 12 Point Richmond, Marina Bay, and Iron Triangle neighborhoods. This includes segments of 13 14 Richmond Parkway/Castro Street and Central Avenue, which are major truck and transit routes and important arterials for commuters and emergency service vehicles.²¹⁴ Even temporary damage 15 or partial closures of these highways could impact traffic at a regional scale.²¹⁵ The Union Pacific 16 17 (UP) rail line in particular is primarily located adjacent to the shoreline and crosses many tidal creeks and channels as well as coastal floodplains. The rail line serves as ad-hoc flood protection 18 in many locations, with tidal marshes and mudflats on the bayside of the rail track that help reduce 19 20 wind, wave, and tidal energy. However, these marshes and mudflats that protect the rail line from erosion and flood damage will be damaged by expected sea level rise,²¹⁶ which would cause 21 disruption to the rail line, inland flooding, and other consequences. Extreme precipitation events 22 23 have caused landslides and related impacts on Rifle Range Road, Castro Ranch Road, and Knob 24 Cone Drive. The City recently bore response and other costs associated with a culvert collapse on 25 Via Verde during an extreme precipitation event. Additionally, many roads in the Richmond Hills

- 26
- 27 $\|_{215}^{214} \underline{\text{Id.}} \text{ at 73.}$ Id.
- 28 $||_{216}$ See id.

are in high-risk zones for wildfires, or will be by the year 2100, which can in turn couple with the
 impacts of extreme precipitation events and cause landslides and water quality issue, among other
 impacts.

b. Industrial Property: Port of Richmond terminals currently do not have 4 groundwater pumping systems in place and the rising groundwater table will damage roads, rails 5 and electrical components that support port operations.²¹⁷ Flooding will damage electrical 6 equipment located at or below-grade, such as electrical equipment found in graving basins in the 7 Port of Richmond. Rail lines, local roads (Richmond Parkway/Canal Boulevard, South Garrard 8 Boulevard, West Cutting Boulevard, Wright Avenue, Marina Way South, Hoffman Boulevard, 9 and Harbor Way South) and the Interstate that serve the Port of Richmond are vulnerable to 10 flooding.²¹⁸ Low-lying and shoreline portions of the Chevron Refinery site, in particular along the 11 eastern side of the site, are located in the 100-year floodplain. These areas and adjacent low-lying 12 areas will be flooded with two feet of sea level rise or more in the absence of mitigation measures. 13 14 Flooding on the east side of the refinery will impact pipelines, roads, rail lines, buildings, and the wastewater treatment plant, and exposes these assets to corrosive seawater.²¹⁹ Sea level rise-related 15 damage to the Chevron facility could have severe consequences to the City in the form of response 16 costs, environmental damage, and public health impacts, among others. 17

c. Energy Infrastructure: The City's natural gas infrastructure will suffer
inundation of pipelines and pumping stations due to temporary flooding or other impacts of sea
level rise. Buried pipelines are directly and indirectly injured by sea level rise-related groundwater
table increase and salinity intrusion.²²⁰

d. Public Facilities: Washington Elementary School is exposed to four feet or
 more of sea level rise and is within the current 500-year floodplain.²²¹ Many schools in Richmond

- 25 ²¹⁷ Id. at F-102.
- ²¹⁸ Id.
- 26 $||_{219} \frac{1}{\text{Id.}}$ at F-99.
- 27 $||^{220}$ <u>Id.</u> at 74.

28

²²¹ Contra Costa County, <u>Adapting to Rising Tides: Contra Costa County Assessment and</u> <u>Adaptation Project</u> at 112 (Mar. 2017).

are already critically overcrowded, and loss of even one facility will have serious consequences
 for other schools.

e. Commercial Property: A substantial number of commercial parcels
already do or will experience flooding in Richmond. Many of these are boat harbors/marinas, most
of which are in the Brickyard Cove neighborhood. Other commercial uses that will be impacted
include stores, office buildings and restaurants that are mostly located along the southern
Richmond shoreline, to the south of I-580.²²²

f. Residential Property: Certain neighborhoods and hundreds of singlefamily residential parcels in Richmond have or will experience flooding that will be more frequent
and extensive due to sea level rise. Many parcels in Brickyard Cove and Point Richmond, already
in the 100-year floodplain, will flood with less than three feet of sea level rise.²²³ These include
the portion of Santa Fe between Virginia and Florida Avenues, and 1st to 6th streets. Single-family
residences in this neighborhood will be damaged by five feet or more of sea level rise.

14 g. Wastewater Management: The City owns the Richmond Municipal Sewer District, which operates a wastewater treatment plant in Point Richmond and approximately half 15 of the sewer lines within the City's boundaries.²²⁴ The City provides wastewater disposal service 16 17 to a 52.6 square mile service area with a substantial majority of the City's residents as well as industrial, commercial and public customers.²²⁵ The City will directly bear injuries to those 18 19 systems, including its effluent pump stations that lift and convey wastewater to the treatment plant, from sea level rise, including inundation, flooding, and salinity intrusion.²²⁶ Flooding is already 20 causing extensive sanitary sewer overflows that create substantial response costs for the City and 21 have exposed the City to liability for violations of environmental laws. 22

23

24

25 ²²² <u>Id.</u> at 30.
26 ²²³ City of Richmond, <u>Climate Action Plan</u>, <u>supra</u> note 93, at 73.
27 ²²⁴ <u>Id.</u> at 59.
225 <u>Id.</u> at F-51.
28 ²²⁶ <u>Id.</u>

h. Stormwater/Flood Management Infrastructure: Richmond 1 has 2 approximately 94 miles of separate storm sewer pipes plus numerous gutters, manholes, outfalls, 3 storm gates, pump stations and other drainage infrastructure that manage rainfall runoff and 4 prevent flooding. Six feet or less of sea level rise will damage critical stormwater assets, including a significant portion of the City's collection devices (storm drains, catch basins, etc.), manholes, 5 weirs, storm gates, pump stations, and pipe.²²⁷ A substantial majority of ocean outfalls will be 6 inundated at high tide with six feet of sea level rise. As these outfalls do not have storm gates to 7 prevent Bay water from entering the stormwater system, where upstream pipe capacity is 8 9 insufficient to store both stormwater and Bay water, there will be street and basement flooding during extreme tides or potentially during the daily high tide. This is already a problem in many 10 low-lying areas along the Richmond shoreline where historic marshes were filled for development. 11 Higher water tables associated with sea level rise will also infiltrate the stormwater system and 12 further reduce pipe capacity, and pipes and other infrastructure.²²⁸ Extreme precipitation events 13 14 have overwhelmed and/or will overwhelm the City's storm drain and creek flood management systems, causing flooding. The current stormwater drainage system is designed for extreme 15 precipitation based on historical averages, but generally wetter conditions will outpace the existing 16 17 system's ability to handle extreme events, necessitating revision of that infrastructure.²²⁹

i. **Parks:** Five parks in the City will experience flooding. These five parks 18 19 represent a significant percentage of the City of Richmond's total park acreage and are all located 20 along the shoreline. The City includes 32 miles of the regional Bay Trail, which in Richmond is located on erodible shoreline such as levees, bluffs, and natural shorelines. Flood damage to park 21 infrastructure, including, but not limited to, shoreline protection, public access areas, lawns, 22 23 restrooms, picnic areas, playing fields, and parking lots will require park closures and costly 24 25 26 ²²⁷ Id. at F-56. 27 ²²⁸ Id. at 76. 28 ²²⁹ Id. at F-17. FIRST AMENDED COMPLAINT

repairs. These parks will be lost if not protected or relocated. These parks also rely on vulnerable
 roads and trails for access.²³⁰

į. 3 Natural Resources: The City has been exposed and will continue to be exposed to the public health, environmental, and legal repercussions of sanitary sewer overflows 4 associated with extreme precipitation events. Additionally, increased flooding in Wildcat Creek 5 will affect marsh habitat and endangered rail and saltmarsh harvest mouse populations in Wildcat 6 Marsh. Increased flooding in Wildcat and San Pablo Creeks could also mobilize industrial 7 substances and introduce contaminants to surrounding areas.²³¹ Without improved maintenance, 8 restoration, and enhancement, the existing tidal marshes in Richmond will be lost between 2070 9 and 2100.²³² 10

k. Water Supply: Drought and changes in precipitation patterns are 11 decreasing the stability of the City's water supply. Richmond receives its water from the East Bay 12 Municipal Utility District.²³³ Changes to the statewide hydrologic regime have reduced snowpack 13 14 (a critical freshwater reservoir in California), consolidated precipitation into a shorter timeframe thereby reducing its amenability to capture, and caused decreases to water quality. These 15 environmental changes have compelled the State of California to induce mandatory water 16 rationing. In response, the City has incurred expenses in rationing, conservation, and contingency 17 planning for decreased water supply reliability associated with these changes to the hydrologic 18 regime.²³⁴ The City will experience decreased water quality in local reservoirs associated with loss 19 20 of watershed vegetation and increased incidence of wildfires in the regions from which its water supply is drawn.²³⁵ Higher temperatures will strain local water supply, which has increased and 21 will continue to increase the City's irrigation demand and expenses. The City has experienced loss 22

- 23
- 24 1230 Id. at F-90-92.
- 25 $||^{231}$ <u>Id.</u> at F-72.
 - $\int 1^{232} \underline{\text{Id.}}$ at F-89.
- $\begin{bmatrix} 26 \\ 27 \end{bmatrix} \begin{bmatrix} 233 & \hline \\ 1233 &$
- ²³⁴ City of Richmond, <u>Climate Action Plan</u>, <u>supra</u> note 93, at F-18.
- 28 $||^{235}$ <u>Id.</u>

1 of street trees, among other injuries, as a result of hydrologic change-related water supply issues. 2 This City has expended resources in planning for upgrades to its water storage and delivery facilities, and to diversify local water supplies.²³⁶

3

The City is planning, at significant expense, adaptation strategies to address sea 4 206. level rise and related impacts, including, but not limited to, development of a strategic planning 5 document and adaptive management plan to address sea level rise along the City's developing 6 shoreline.²³⁷ Additionally, the City has incurred significant expense in educating and engaging the 7 public on climate change issues, and to promote community involvement in actions to reduce 8 9 climate change risks, including by educating particularly vulnerable populations about the public health impacts of extreme heat waves (such as heat stroke), drought (diminished water supply), 10 and other climate change-related impacts.²³⁸ Implementation of these planning and outreach 11 12 processes will come at a substantial cost to the City.

13

As a direct and proximate result of the acts and omissions of the Defendants' 207. 14 alleged herein, Plaintiff has incurred significant expenses related to planning for and predicting future sea level rise-related and hydrologic cycle change-related injuries to its real property, 15 improvements thereon, municipal infrastructure, and residents, and other community assets in 16 order to preemptively mitigate and/or prevent injuries to itself and its residents. 17

208. As a direct and proximate result of Defendants' acts and omissions alleged herein, 18 Plaintiffs have incurred sea level rise-related and hydrologic regime change-related injuries and 19 20 damages. These include, but are not limited to, infrastructural repair, planning costs, and response costs to flooding and other acute incidents. 21

As a direct and proximate result of Defendants' acts and omissions alleged herein, 22 209. 23 Plaintiffs' real property has been inundated by sea water, and extreme precipitation, among other 24 climate-change related intrusions, causing injury and damages thereto and to improvements

- 25 26
- ²³⁶ Id. at F-47. 27
- ²³⁷ Id. at 72. 28
 - ²³⁸ See id. at 71–72.

1	thereon, and preventing free passage on, use of, and normal enjoyment of that real property, or		
2	permanently destroying it.		
3	210. Defendants' conduct as described herein is therefore an actual, substantial, and		
4	proximate cause of Plaintiffs' sea level rise-related and hydrologic regime change-related injuries.		
5	VI. <u>CAUSES OF ACTION</u>		
6	FIRST CAUSE OF ACTION		
7	(Public Nuisance on Behalf of the People of the State of California)		
8	(Against All Defendants)		
9	211. The People incorporate by reference each and every allegation in §§ I–V contained		
10	above, as though set forth herein in full.		
11	212. The People of the State of California, acting by and through the Richmond City		
12	Counsel, bring this claim seeking abatement pursuant to California public nuisance law, including		
13	section 731 of the California Code of Civil Procedure, and sections 3479, 3480, 3491, and 3494		
14	of the California Civil Code.		
15	213. Defendants, individually and in concert with each other, by their affirmative acts		
16	and omissions, have caused, created, assisted in the creation of, and/or maintained harmful climate		
17	change-related conditions, and continue to engage in that conduct. The climate change-related		
18	conditions include higher sea level, increased storm frequency and intensity, more frequent and		
19	extreme heat events, reduced air quality, and increased flooding, with compounding effects in		
20	Richmond's Disadvantaged Communities. They (1) are harmful and dangerous to human health;		
21	(2) are indecent and offensive to the senses of the ordinary person; (3) obstruct and threaten to		
22	obstruct the free use of the People's property so as to interfere with the comfortable enjoyment of		
23	life and property; and (4) obstruct and threaten to obstruct the free passage and use of public parks,		
24	squares, streets, bodies of water, and/or highways within Richmond. They therefore constitute a		
25	nuisance.		
26	214. Defendants, individually and in concert with each other, created, caused,		
27	contributed to, and assisted in the creation of these and other climate change-related harms in		
28	Richmond by, among other things, affirmatively and deceptively promoting the sale and use of		
	FIRST AMENDED COMPLAINT 119		

1 fossil fuel products in Richmond which Defendants knew would cause or exacerbate climate change and its impacts in Richmond including without limitation sea level rise, more frequent and 2 3 extreme precipitation events, coastal and inland flooding, more frequent and extreme heat events, 4 and reduced air quality. The affirmative misconduct also includes disseminating and funding the 5 dissemination of information intended to mislead consumers and the public regarding the risks of climate change and its consequences that Defendants knew would inevitably follow from the 6 intended or reasonably foreseeable use of their products. It also includes engaging in other conduct 7 8 to manipulate and induce the public into continued and elevated consumption of fossil fuels and 9 delaying the shift to renewable energy in a way that exacerbates climate change harms.

215. Defendants' nuisance-creating conduct included egregiously making untruthful, 10 11 deceptive, and/or misleading environmental marketing claims, explicit and implied, in violation of Cal. Bus. & Prof. Code § 17580.5. The People are within the class of persons that statute seeks to 12 protect. Defendants' misleading environmental marketing claims include, but are not limited to, 13 14 deceptively marketing fossil fuel products claimed to be "low carbon," "emissions-reducing," "clean" and/or "green," or otherwise environmentally beneficial or benign when in reality those 15 16 products contribute to climate change and are harmful to the health of the planet and its people; and deceptively marketing their companies and their products as contributing to solutions to 17 climate change when in reality their investments in clean energy and alternative fuels pale in 18 19 comparison to their investments in expanding fossil fuel production.

20 216. The climate change-related harms that Defendants created, caused, contributed to,
21 and assisted in the creation of, constitute a substantial and unreasonable interference with and
22 obstruction of public rights and property, including, *inter alia*, the public rights to health, safety,
23 welfare, peace, comfort, and convenience of Richmond residents and other citizens. These
24 interferences with public rights, which Defendants knew their affirmative wrongful promotion
25 would cause or exacerbate, include without limitation:

26 a. interference with the public's rights so regular and severe as to cause
27 permanent inundation;

28

b. the destruction of real and personal property, rather than mere annoyance;

- c. the loss of property and infrastructure within Richmond, which will actually
 be borne by Plaintiff's residents as loss of use of public property and infrastructure and diversion
 of tax dollars away from other public services to sea level rise;
- 4 d. Plaintiff's coastal property, which serves myriad uses including industrial,
 5 residential, infrastructural, commercial and ecological, is not suitable for regular inundation;
- e. Sea level rise, coastal inundation and flooding, and groundwater changes,
 which obstruct the free passage and use of roads and property, impair water quality in groundwater
 aquifers, damage critical public infrastructure, and lead to unprecedented and dangerous storm
 surges that can cause injury or even deaths;
- 10 f. More frequent and extreme precipitation events, including atmospheric
 11 rivers, which cause flooding that can damage public infrastructure, obstructing the free passage
 12 and use of property;
- g. More frequent and extreme heat events, which increase the risk of injury or
 death from dehydration, heat stroke, heart attack, and respiratory problems; and
- h. Public health harms including reduced air quality from smoke and
 dangerous pollutants caused by more frequent and intense wildfires across California, which
 exacerbates existing health conditions, damages lungs and increases rates of childhood asthma,
 respiratory and heart disease, and death, and which reduces visibility and obstructs scenic views.
- 19 217. The harms caused by Defendants' nuisance-creating conduct are extremely grave20 and far outweigh the social utility of that conduct.
- 21 218. This public nuisance affects and/or interferes with the rights of an entire community
 22 and/or the rights of a considerable number of persons in Richmond and the State of California to
 23 health, safety, peace, comfort, and convenience.
- 24 219. The People's injuries and threatened injuries from each Defendant's affirmative
 25 acts or omissions are indivisible injuries. Each Defendant's past and ongoing conduct is a direct
 26 and proximate cause of the People's injuries and threatened injuries. As a direct and proximate
 27 result of Defendants' acts and omissions, Plaintiffs will be required to expend significant public
 28 resources to mitigate the impacts of climate-related harms throughout Richmond.

1	220.	As a direct and proximate result of Defendants' conduct, as set forth above, the
2	common rights enjoyed by the People of the State of California and by the general public in the	
3	City of Richmond have been unreasonably interfered with because Defendants knew or should	
4	have known that their conduct would create a continuing problem with long-lasting significan	
5	negative effects on the rights of the public.	
6	221.	Defendants' actions are a direct and legal cause of the public nuisance.
7	222.	Defendants' acts and omissions as alleged herein are indivisible causes of the
8	People's injur	ies and damage as alleged herein.
9	223.	Defendants are jointly and severally liable to the People for committing a public
10	nuisance.	
11	224.	The People of the State of California, acting through the City of Richmond, have a
12	clearly ascerta	ainable right to have the public nuisance created by Defendants abated.
13	225.	Wherefore, the People of the State of California also pray for relief as set forth
14	below.	
15	SECOND CAUSE OF ACTION	
	(Public Nuisance on Behalf of the City of Richmond)	
16		(Public Nuisance on Behalf of the City of Richmond)
16 17		(Public Nuisance on Behalf of the City of Richmond) (Against All Defendants)
	226.	•
17		(Against All Defendants)
17 18		(Against All Defendants) Plaintiff incorporates by reference each and every allegation in §§ I–V contained
17 18 19	above, as thou 227.	(Against All Defendants) Plaintiff incorporates by reference each and every allegation in §§ I–V contained ogh set forth herein in full.
17 18 19 20	above, as thou 227. and omissions	(Against All Defendants) Plaintiff incorporates by reference each and every allegation in §§ I–V contained ugh set forth herein in full. Defendants, individually and in concert with each other, by their affirmative acts
17 18 19 20 21	above, as thou 227. and omissions change-related	(Against All Defendants) Plaintiff incorporates by reference each and every allegation in §§ I–V contained high set forth herein in full. Defendants, individually and in concert with each other, by their affirmative acts s, have caused, created, assisted in the creation of, and/or maintained harmful climate
17 18 19 20 21 22	above, as thou 227. and omissions change-related conditions inc	(Against All Defendants) Plaintiff incorporates by reference each and every allegation in §§ I–V contained ligh set forth herein in full. Defendants, individually and in concert with each other, by their affirmative acts s, have caused, created, assisted in the creation of, and/or maintained harmful climate d conditions, and continue to engage in that conduct. The climate change-related
 17 18 19 20 21 22 23 	above, as thou 227. and omissions change-related conditions inc extreme heat	(Against All Defendants) Plaintiff incorporates by reference each and every allegation in §§ I–V contained ligh set forth herein in full. Defendants, individually and in concert with each other, by their affirmative acts a, have caused, created, assisted in the creation of, and/or maintained harmful climate d conditions, and continue to engage in that conduct. The climate change-related clude higher sea level, increased storm frequency and intensity, more frequent and
 17 18 19 20 21 22 23 24 	above, as thou 227. and omissions change-related conditions inc extreme heat Richmond's E	(Against All Defendants) Plaintiff incorporates by reference each and every allegation in §§ I–V contained ogh set forth herein in full. Defendants, individually and in concert with each other, by their affirmative acts a, have caused, created, assisted in the creation of, and/or maintained harmful climate d conditions, and continue to engage in that conduct. The climate change-related clude higher sea level, increased storm frequency and intensity, more frequent and events, reduced air quality, and increased flooding, with compounding effects in
 17 18 19 20 21 22 23 24 25 	above, as thou 227. and omissions change-related conditions inc extreme heat Richmond's E (2) are indece	(Against All Defendants) Plaintiff incorporates by reference each and every allegation in §§ I–V contained of the herein in full. Defendants, individually and in concert with each other, by their affirmative acts as, have caused, created, assisted in the creation of, and/or maintained harmful climate d conditions, and continue to engage in that conduct. The climate change-related clude higher sea level, increased storm frequency and intensity, more frequent and events, reduced air quality, and increased flooding, with compounding effects in Disadvantaged Communities. They (1) are harmful and dangerous to human health;
 17 18 19 20 21 22 23 24 25 26 	above, as thou 227. and omissions change-related conditions inc extreme heat Richmond's I (2) are indece obstruct the fr	(Against All Defendants) Plaintiff incorporates by reference each and every allegation in §§ I–V contained high set forth herein in full. Defendants, individually and in concert with each other, by their affirmative acts a, have caused, created, assisted in the creation of, and/or maintained harmful climate d conditions, and continue to engage in that conduct. The climate change-related clude higher sea level, increased storm frequency and intensity, more frequent and events, reduced air quality, and increased flooding, with compounding effects in Disadvantaged Communities. They (1) are harmful and dangerous to human health; ent and offensive to the senses of the ordinary person; (3) obstruct and threaten to

squares, streets, bodies of water, and/or highways within Richmond. They therefore constitute a
 nuisance.

3 228. Defendants, and each of them, created, caused, contributed to, and assisted in the 4 creation of these and other climate change-related harms in Richmond by, among other things, 5 affirmatively and deceptively promoting the sale and use of fossil fuel products in Richmond which Defendants knew would cause or exacerbate climate change and its impacts in Richmond 6 including without limitation sea level rise, more frequent and extreme precipitation events, coastal 7 8 and inland flooding, more frequent and extreme heat events, and reduced air quality. The 9 affirmative misconduct also includes disseminating and funding the dissemination of information intended to mislead consumers and the public regarding the risks of climate change and its 10 11 consequences that Defendants knew would inevitably follow from the intended or reasonably foreseeable use of their products. It also includes engaging in other conduct to manipulate and 12 induce the public into continued and elevated consumption of fossil fuels and delaying the shift to 13 14 renewable energy in a way that exacerbates climate change harms.

229. Defendants' nuisance-creating conduct included egregiously making untruthful, 15 16 deceptive, and/or misleading environmental marketing claims, explicit and implied, in violation of Cal. Bus. & Prof. Code § 17580.5. The City is within the class of persons that statute seeks to 17 protect. Defendants' misleading environmental marketing claims include, but are not limited to, 18 19 deceptively marketing fossil fuel products claimed to be "low carbon," "emissions-reducing," "clean" and/or "green," or otherwise environmentally beneficial or benign when in reality those 20 products contribute to climate change and are harmful to the health of the planet and its people; 21 22 and deceptively marketing their companies and their products as contributing to solutions to 23 climate change when in reality their investments in clean energy and alternative fuels pale in 24 comparison to their investments in expanding fossil fuel production.

25 230. The climate change-related harms that Defendants created, caused, contributed to,
26 and assisted in the creation of, constitute a substantial and unreasonable interference with and
27 obstruction of public rights and property, including, *inter alia*, the public rights to health, safety,
28 welfare, peace, comfort, and convenience of Richmond residents and other citizens. These

interferences with public rights, which Defendants knew their affirmative wrongful promotion
 would cause or exacerbate, include without limitation:

a. interference with the public's rights so regular and severe as to cause
permanent inundation;

5

b. the destruction of real and personal property, rather than mere annoyance;

c. the loss of property and infrastructure within Richmond, which will actually
be borne by Plaintiff's residents as loss of use of public property and infrastructure and diversion
of tax dollars away from other public services to sea level rise;

9 d. Plaintiff's coastal property, which serves myriad uses including industrial,
10 residential, infrastructural, commercial and ecological, is not suitable for regular inundation;

e. Sea level rise, coastal inundation and flooding, and groundwater changes,
which obstruct the free passage and use of roads and property, impair water quality in groundwater
aquifers, damage critical public infrastructure, and lead to unprecedented and dangerous storm
surges that can cause injury or even deaths;

15 f. More frequent and extreme precipitation events, including atmospheric
16 rivers, which cause flooding that can damage public infrastructure, obstructing the free passage
17 and use of property;

18 g. More frequent and extreme heat events, which increase the risk of injury or
19 death from dehydration, heat stroke, heart attack, and respiratory problems; and

h. Public health harms including reduced air quality from smoke and
dangerous pollutants caused by more frequent and intense wildfires across California, which
exacerbates existing health conditions, damages lungs and increases rates of childhood asthma,
respiratory and heart disease, and death, and which reduces visibility and obstructs scenic views.

24 231. The harms caused by Defendants' nuisance-creating conduct are extremely grave25 and far outweigh the social utility of that conduct.

26 232. This public nuisance affects and/or interferes with the rights of an entire community
27 and/or the rights of a considerable number of persons in Richmond to health, safety, peace,
28 comfort, and convenience.

233. In addition to the harms suffered by the public at large, Plaintiff has suffered special
 injuries different in kind. Among other harms,

a. Plaintiff has been forced to spend or set aside significant funds to assess,
plan for, and enact infrastructure changes needed to mitigate rising sea levels on Plaintiff's publicly
owned beaches and other public coastal property; and

b. Plaintiff has had to plan for and provide additional emergency and other
public services in response to more frequent and more intense flooding and storm surges on both
properties owned by Plaintiff, and properties owned, leased, and utilized by residents and visitors
to Plaintiff's communities.

234. Plaintiff's injuries and threatened injuries from each Defendant's affirmative acts
or omissions are indivisible injuries. Each Defendant's past and ongoing conduct is a direct and
proximate cause of Plaintiff's injuries and threatened injuries. As a direct and proximate result of
Defendants' acts and omissions, Plaintiff will be required to expend significant public resources
to mitigate the impacts of climate-related harms throughout Richmond.

15 235. Defendants' wrongful conduct was oppressive, malicious, and fraudulent, in that
16 their conduct was willful, intentional, and in conscious disregard for the rights of others.
17 Defendants' conduct was so vile, base, and contemptible that it would be looked down upon and
18 despised by reasonable people, justifying an award of punitive and exemplary damages in an
19 amount subject to proof at trial, and justifying equitable disgorgement of all profits Defendants
20 obtained through their unlawful and outrageous conduct.

21 236. As a direct and proximate result of Defendants' conduct, as set forth above, the
22 common rights enjoyed by the general public in the City of Richmond have been unreasonably
23 interfered with because Defendants knew or should have known that their conduct would create a
24 continuing problem with long-lasting significant negative effects on the rights of the public.

237. Defendants' actions are a direct and legal cause of the public nuisance.

26 238. Defendants are jointly and severally liable to Plaintiff for committing a public
27 nuisance.

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1	239. Plaintiff has a clearly ascertainable right to have the public nuisance created by
2	Defendants abated.
3	240. Wherefore, Plaintiff prays for relief as set forth below.
4	THIRD CAUSE OF ACTION
5	(Strict Liability—Failure to Warn on Behalf of the City of Richmond)
6	(Against All Defendants)
7	241. Plaintiff incorporates by reference each and every allegation in §§ I–V contained
8	above, as though set forth herein in full.
9	242. Defendants, individually and in concert with each other, heavily marketed,
10	promoted, and advertised fossil fuel products and their derivatives, which were sold or used by
11	their respective affiliates and subsidiaries. Defendants received direct financial benefit from their
12	affiliates' and subsidiaries' sales of fossil fuel products. Defendants' role as promoter and marketer
13	was integral to their respective businesses and a necessary factor in bringing fossil fuel products
14	and their derivatives to the consumer market, such that Defendants had control over, and a
15	substantial ability to influence, the manufacturing and distribution processes of their affiliates and
16	subsidiaries.
17	243. As manufacturers, advertisers, promoters, and/or sellers of fossil fuel products and
18	their derivatives, Defendants had a duty to warn consumers, the public, and Plaintiff of reasonably
19	foreseeable environmental and health risks posed by those products and derivatives.
20	244. Throughout the times at issue, Defendants individually and collectively knew or
21	should have known—based on information passed to them from their internal research divisions
22	and affiliates, trade associations and entities, and/or from the international scientific community—
23	that fossil fuel products, whether used as intended or misused in a foreseeable manner, release
24	greenhouse gases into the atmosphere, causing global warming, sea level rise, increased intensity
25	and frequency of precipitation events and flooding, increased intensity and frequency of
26	storm surges, more frequent and severe heat waves and extreme temperatures, reduced air quality,
27	and the consequences and injuries associated with those physical and environmental changes,
28	

which result in risks to human health and safety, damage to property and infrastructure, and loss
 of use of public services in Richmond.

245. Throughout the times at issue and continuing today, Defendants' fossil fuel
products and their derivatives were used, distributed, and sold in a manner in which they were
reasonably foreseeably intended to be used, distributed, and sold, including but not limited to being
combusted for energy, combusted to power automobiles, refined into petrochemicals, and refined
and/or incorporated into petrochemical products including, but not limited to, fuels and plastics.

8 246. Throughout the times at issue and continuing today, fossil fuel products presented
9 and still present a substantial risk of injury to Plaintiff through the climate effects described above,
10 whether used as intended or misused in a reasonably foreseeable manner. They were not
11 reasonably safe at the time they left Defendants' control because they lacked adequate warnings
12 and instructions. Defendants' actual and/or constructive knowledge described above also
13 encompassed all of the risks described in this paragraph.

14 247. The fossil fuel products and their derivatives reached consumers substantially
15 unchanged from the condition in which they left the Defendants' control. Defendants and their
16 affiliates and subsidiaries knew, or should have known, that these fossil fuel products and their
17 derivatives would be used by Plaintiff, its residents, and others within the Richmond's limits,
18 amongst others, in the manner reasonably foreseeably intended.

19 248. Throughout the times at issue, the ordinary consumer would not recognize that the
20 use or foreseeable misuse of fossil fuel products causes global and localized changes in climate,
21 including those effects described herein.

249. At the time of manufacture, merchandising, advertising, promotion, or sale,
Defendants could have provided warnings or instructions regarding the full and complete risks
fossil fuel products and their derivatives posed because they knew, and/or should have known, of
the unreasonable risks of harm associated with the use of these products, as described herein.

26 250. Throughout the times at issue, Defendants individually and in concert widely
27 disseminated marketing materials, refuted the scientific knowledge generally accepted at the time
28 concerning climate change, and advanced pseudo-scientific theories of their own, and developed

public relations campaigns and materials that prevented reasonable consumers from recognizing
 or discovering the latent risk that Defendants' fossil fuel products and their derivatives would
 cause grave climate changes. Defendants also represented, asserted, claimed, and warranted that
 their fossil fuel products and derivatives were safe for their intended and foreseeable uses.

5 251. Despite the Defendants' superior and unequal knowledge of the risks posed by 6 fossil fuel products and their derivatives, Defendants, and each of them, breached their duty to 7 warn by failing to adequately warn Plaintiff, customers, and the public of the risks of climate 8 change and other dangers that Defendants knew would inevitably follow from the intended or 9 reasonably foreseeable use of Defendants' fossil fuel products.

252. Any warnings the Defendants may have issued as to the risks of their fossil fuel
products and their derivatives were rendered ineffective and inadequate by Defendants' false and
misleading public relations campaigns and statements about fossil fuel products, and their decadeslong efforts to conceal and misrepresent the dangers that follow from the intended or reasonably
foreseeable use of such products.

15 253. Accordingly, throughout the times at issue, the ordinary consumer would not
16 recognize that the use of fossil fuel products and their derivatives causes global and localized
17 changes in climate, and consequent injuries to Richmond and its communities, as described herein.

18 254. Had the Defendants provided adequate warnings and not waged a deceptive
19 campaign against climate science, their fossil fuel products and their derivatives would not have
20 had widespread acceptance in the marketplace, and alternatives to fossil fuel products could have
21 been developed faster, investment in fossil fuel alternatives would be greater, and/or fossil fuel
22 alternatives would be used in greater amounts.

23 255. Moreover, had the Defendants provided adequate warnings about the adverse
24 impacts to public health and the environment that result from the intended and reasonably
25 foreseeable use of fossil fuel products and their derivatives, Plaintiff and its residents would have
26 taken measures to decrease fossil fuel dependency in order to avoid or lessen the climate change27 related harms described herein and property damage that would inevitably follow.

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2 256. As a result of the Defendants' failure to warn about the unreasonably dangerous
 2 conditions of their fossil fuel products and their derivatives, Defendants are strictly liable to
 3 Plaintiff.

257. Defendants' wrongful conduct was oppressive, malicious, and fraudulent, in that
their conduct was willful, intentional, and in conscious disregard for the rights of others.
Defendants' conduct was so vile, base, and contemptible that it would be looked down upon and
despised by reasonable people, justifying an award of punitive and exemplary damages in an
amount subject to proof at trial, and justifying equitable disgorgement of all profits Defendants
obtained through their unlawful and outrageous conduct.

258. As a direct and proximate result of the defects previously described, fossil fuel
products caused Plaintiff to sustain the injuries and damages set forth in this Complaint, including
damage to publicly owned infrastructure and real property, and the creation and maintenance of a
nuisance that interferes with the rights of the City, its residents, and of the People.

14 259. As a direct and proximate result of Defendants' acts and omissions as alleged
15 herein, Plaintiff has suffered monetary losses and damages in amounts to be proven at trial.

16 260. Defendants' acts and omissions as alleged herein are indivisible causes of
17 Plaintiff's injuries as alleged herein.

261. Wherefore, Plaintiff prays for relief as set forth below. 18 19 FOURTH CAUSE OF ACTION (Private Nuisance on Behalf of the City of Richmond) 20 (Against All Defendants) 21 Plaintiff incorporates by reference each and every allegation contained in §§ I–V 22 262. 23 above, as though set forth herein in full. 24 263. Plaintiff owns and manages extensive property within Richmond borders that has 25 been injured and will be injured by climate change. 264. Defendants, and each of them, by their acts and omissions, have intentionally and 26

27 unreasonably created a condition on Plaintiff's property, and permitted that condition to persist,
28 which constitutes a nuisance by increasing sea level, increasing the frequency and intensity of

flooding, increasing the frequency and intensity of extreme heat events (including fire smoke), and
 increasing the intensity and frequency of storms.

265. The condition created by Defendants substantially and negatively affects Plaintiff's
interest in its own real property. In particular, higher sea level, increased storm frequency and
intensity, increased frequency and intensity of extreme heat events (including fire smoke), and
increased flooding frequency and intensity are:

7

b.

a. harmful and dangerous to human health;

8

indecent and offensive to the senses of the ordinary person; and

9 c. threatening to obstruct the free use of Plaintiff's property and property
10 owned by Plaintiff's residents and citizens, so as to interfere with the comfortable enjoyment of
11 life and property; and

d. threatening to obstruct the free passage and use of public parks, squares,
streets, bodies of water, and/or highways within Richmond.

14 266. The condition described above created by Defendants' conduct substantially
15 interferes with Plaintiff's use and quiet enjoyment of its properties.

16 267. Plaintiff has not consented to Defendants' conduct in creating the condition that has
17 led to climate change and its associated harms.

18 268. The ordinary person, and the ordinary City or public entity in Plaintiff's position, 19 would be reasonably annoyed and disturbed by Defendants' conduct and the condition created 20 thereby, because, *inter alia*, it infringes on Plaintiff's ability to provide public space and safe 21 property to residents and visitors, and has forced Plaintiff to plan for and provide additional 22 emergency and other public services in response to more frequent and more intense flooding and 23 storm surges on properties owned by Plaintiff.

24 269. The seriousness of rising sea levels, increased weather volatility, flooding, and
25 extreme heat events (including fire smoke) is extremely grave, and outweighs the social utility of
26 Defendants' conduct. The seriousness of the harm to Plaintiff outweighs the benefit of Defendants'
27 and each of their conduct.

28

1	270. Defendants' conduct was a direct and proximate cause of Plaintiff's injuries, and a	
2	substantial factor in the harms suffered by Plaintiff as described in this Complaint.	
3	271. Defendants' acts and omissions as alleged herein are indivisible causes of	
4	Plaintiff's injuries and damage as alleged herein.	
5	272. Defendants' wrongful conduct was oppressive, malicious, and fraudulent, in that	
6	their conduct was willful, intentional, and in conscious disregard for the rights of others.	
7	Defendants' conduct was so vile, base, and contemptible that it would be looked down upon and	
8	despised by reasonable people, justifying an award of punitive and exemplary damages in an	
9	amount subject to proof at trial, and justifying equitable disgorgement of all profits Defendants	
10	obtained through their unlawful and outrageous conduct.	
11	273. Defendants are jointly and severally liable to the Plaintiff for causing a private	
12	nuisance.	
13	274. Wherefore, Plaintiff prays for relief as set forth below.	
14	FIFTH CAUSE OF ACTION	
15	(Negligence on Behalf of the City of Richmond)	
16	(Against All Defendants)	
17	275. Plaintiff incorporates by reference each and every allegation contained in §§ I–V	
18	above, as though set forth herein in full.	
19	276. Defendants knew or should have known of the climate effects inherently caused by	
20	the normal use and operation of their fossil fuel products, including the likelihood and likely	
21	severity of global and local climate change and its consequences, and including Plaintiff's injuries	
22	and damages described herein.	
23	277. For decades, Defendants possessed knowledge-based on information passed to	
24	them from their internal research divisions and affiliates, from trade associations and industry	
25	groups, and from the international scientific community—that fossil fuels are the primary cause of	
26	climate change and that, if unabated, climate change would cause climate-related harms, including	
27	but not limited to: sea level rise, more frequent and extreme precipitation events, increased	
	but not minice to: see level rise, more nequent and extreme precipitation events, mercased	
28	frequency and severity of heat waves and extreme temperatures, reduced air quality, and other FIRST AMENDED COMPLAINT 131	

adverse environmental changes, and the associated consequences of those physical and
 environmental changes in Richmond and elsewhere, with compounding effects in Disadvantaged
 Communities. Defendants possessed knowledge that these climate-related harms would result in
 risks to human health and safety, damage to property and infrastructure, and loss of use.

5

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278. Given the scientific evidence available to and conducted by Defendants, as referenced herein, such injury was likely and reasonably foreseeable.

7 279. Under California law, each Defendant had a duty to Plaintiff and its residents to
8 exercise reasonable care in the marketing, promoting, sale, and/or labeling of their fossil fuel
9 products and to act reasonably for the protection of Richmond and its residents to avoid inflicting
10 the injuries described herein. All Defendants had a duty to exercise reasonable care in the
11 production and dissemination of information regarding the climate impacts of fossil fuel products
12 to users of those products and to the public.

13

14

280. Defendants had superior knowledge of the risk posed by fossil fuel products at all times relevant to this Complaint.

15 281. Defendants, collectively and individually, had a duty to use due care in developing,
16 testing, inspecting, selling, and marketing their fossil fuel products. That duty obligated
17 Defendants collectively and individually to, *inter alia*, prevent defective products from entering
18 the stream of commerce, and prevent reasonably foreseeable harm that could have resulted from
19 the ordinary use or reasonably foreseeable misuse of Defendants' products.

20 282. Defendants, and each of them, breached their duty of due care by engaging in a campaign of disinformation regarding global warming and the climatic effects of fossil fuel 21 22 products that prevented customers and the general public from taking steps to mitigate the 23 inevitable consequences of fossil fuel consumption, and incorporating those consequences into 24 either short-term decisions or long-term planning. This includes when they advertised, promoted, 25 and/or sold fossil fuel products and their derivatives, while failing to include warnings of the risk of harm associated with fossil fuel products and their derivatives, in a manner that they knew or 26 27 should have known would result in injury to human health and safety, damage to Plaintiff's property and infrastructure, loss of use of Plaintiff's services, and other damages to the Plaintiff. 28

283. Any warnings provided by Defendants were rendered ineffective by the years-long
 deceptive marketing practices and public relations campaigns, which promulgated false and
 misleading statements, casted doubt on the consensus of climate scientists, and advanced pseudo scientific theories.

5 284. Defendants' individual and collective acts and omissions were actual, substantial
6 causes of climate change and its consequences, including Plaintiff's injuries and damages set forth
7 herein.

8 285. Defendants' individual and collective acts and omissions were proximate causes of
9 climate change and its consequences, including Plaintiff's injuries and damages set forth herein.
10 No other act, omission, or natural phenomenon intervened in the chain of causation between
11 Defendants' conduct and Plaintiff's injuries and damages, or superseded Defendants' breach of
12 their duties' substantiality in causing Plaintiff's injuries and damages.

13 286. As a direct and proximate result of Defendants' and each of their acts and
14 omissions, Plaintiff sustained injuries and damages as set forth herein.

15 287. Defendants' acts and omissions as alleged herein are indivisible causes of
16 Plaintiff's injuries and damage as alleged herein.

17 288. A reasonably careful company would not engage in a decades-long deceptive
18 marketing and public relations campaign to promulgate such false and misleading statements,
19 would not manufacture, distribute, sell, or promote fossil fuel products and their derivatives
20 without warning, would warn of these products' hazardous properties, and/or would take steps to
21 enhance the safety and/or reduce the risk of the products.

22 289. Defendants' wrongful conduct was oppressive, malicious, and fraudulent, in that 23 their conduct was willful, intentional, and in conscious disregard for the rights of others. 24 Defendants' conduct was so vile, base, and contemptible that it would be looked down upon and 25 despised by reasonable people, justifying an award of punitive and exemplary damages in an 26 amount subject to proof at trial, and justifying equitable disgorgement of all profits Defendants 27 obtained through their unlawful and outrageous conduct.

28

1	290. Defendants are jointly and severally liable to the Plaintiff for causing a private	
2	nuisance.	
3	291. Wherefore, Plaintiff prays for relief as set forth below.	
4	SIXTH CAUSE OF ACTION	
5	(Negligence - Failure to Warn on Behalf the City of Richmond)	
6	(Against All Defendants)	
7	292. Plaintiff incorporates by reference each and every allegation in §§ I–V contained	
8	above, as though set forth herein in full.	
9	293. At all relevant times, Defendants and their affiliates and subsidiaries were engaged	
10	in the business of manufacturing, advertising, promoting, and/or selling fossil fuel products and	
11	their derivatives.	
12	294. Defendants, individually and in concert with each other, heavily marketed,	
13	promoted, and advertised fossil fuel products and their derivatives, which were sold or used by	
14	their respective affiliates and subsidiaries. Defendants received direct financial benefit from their	
15	affiliates' and subsidiaries' sales of fossil fuel products. Defendants' role as promoter and marketer	
16	was integral to their respective businesses and a necessary factor in bringing fossil fuel products	
17	and their derivatives to the consumer market, such that Defendants had control over, and a	
18	substantial ability to influence, the manufacturing and distribution processes of their affiliates and	
19	subsidiaries.	
20	295. As manufacturers, advertisers, promoters, and/or sellers of fossil fuel products and	
21	their derivatives, Defendants had a duty to warn consumers, the public, and Plaintiff of reasonably	
22	foreseeable environmental and health risks posed by those products and derivatives.	
23	296. Throughout the times at issue, Defendants individually and collectively knew or	
24	should have known—based on information passed to them from their internal research divisions	
25	and affiliates, trade associations and entities, and/or from the international scientific community—	
26	that fossil fuel products, whether used as intended or misused in a foreseeable manner, release	
27	greenhouse gases into the atmosphere, causing global warming, sea level rise, increased intensity	
28	and frequency of precipitation events and flooding, increased intensity and frequency of	
	FIRST AMENDED COMPLAINT 134	

storm surges, more frequent and severe heat waves and extreme temperatures, reduced air quality,
 and the consequences and injuries associated with those physical and environmental changes,
 which result in risks to human health and safety, damage to property and infrastructure, and loss
 of use of public services in Richmond.

5 297. Defendants knew or should have known, based on information passed to them from 6 their internal research divisions and affiliates, their trade organizations, and/or from the 7 international scientific community, that the climate effects described above rendered their fossil 8 fuel products dangerous, or likely to be dangerous, when used as intended or misused in a 9 reasonably foreseeable manner.

10 298. Throughout the times at issue and continuing today, Defendants' fossil fuel 11 products and their derivatives were used, distributed, and sold in a manner in which they were 12 reasonably foreseeably intended to be used, distributed, and sold, including but not limited to being 13 combusted for energy, combusted to power automobiles, refined into petrochemicals, and refined 14 and/or incorporated into petrochemical products including, but not limited to, fuels and plastics.

15 299. Defendants and their affiliates and subsidiaries knew, or should have known, that
16 these fossil fuel products and their derivatives would be used by the City, its residents, and others
17 within the City's limits, amongst others, in the manner reasonably foreseeably intended.

300. 18 Throughout the times at issue and continuing today, fossil fuel products presented 19 and still present a substantial risk of injury to Plaintiff through the climate effects described above, 20 whether used as intended or misused in a reasonably foreseeable manner. They were not reasonably safe at the time they left Defendants' control because they lacked adequate warnings 21 22 and instructions. Defendants' actual and/or constructive knowledge described above also encompassed all of the risks described in this paragraph. The fossil fuel products and their 23 24 derivatives reached consumers substantially unchanged from the condition in which they left the 25 Defendants' control. Defendants and their affiliates and subsidiaries knew, or should have known, 26 that these fossil fuel products and their derivatives would be used by Plaintiff, its residents, and 27 others within the Richmond's limits, amongst others, in the manner reasonably foreseeably intended. 28

SHER EDLING LLP 301. At the time of manufacture, merchandising, advertising, promotion, or sale,
 Defendants could have provided warnings or instructions regarding the full and complete risks
 fossil fuel products and their derivatives posed because they knew, and/or should have known, of
 the unreasonable risks of harm associated with the use of these products, as described herein.

5 302. Throughout the times at issue, Defendants individually and in concert widely 6 disseminated marketing materials, refuted the scientific knowledge generally accepted at the time 7 concerning climate change, and advanced pseudo-scientific theories of their own, and developed 8 public relations campaigns and materials that prevented reasonable consumers from recognizing 9 or discovering the latent risk that Defendants' fossil fuel products and their derivatives would 10 cause grave climate changes. Defendants also represented, asserted, claimed, and warranted that 11 their fossil fuel products and derivatives were safe for their intended and foreseeable uses.

12 303. Despite the Defendants' superior and unequal knowledge of the risks posed by 13 fossil fuel products and their derivatives, Defendants, and each of them, breached their duty to 14 warn by failing to adequately warn Plaintiffs, customers, and the public of the risks of climate 15 change and other dangers that Defendants knew would inevitably follow from the intended or 16 reasonably foreseeable use of Defendants' fossil fuel products.

304. Any warnings the Defendants may have issued as to the risks of their fossil fuel
products and their derivatives were rendered ineffective and inadequate by Defendants' false and
misleading public relations campaigns and statements about fossil fuel products, and their decadeslong efforts to conceal and misrepresent the dangers that follow from the intended or reasonably
foreseeable use of such products.

305. Accordingly, throughout the times at issue, the ordinary consumer would not
recognize that the use of fossil fuel products and their derivatives causes global and localized
changes in climate, and consequent injuries to Richmond and its communities, as described herein.

306. Had the Defendants provided adequate warnings and not waged a deceptive
campaign against climate science, their fossil fuel products and their derivatives would not have
had widespread acceptance in the marketplace, and alternatives to fossil fuel products could have

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been developed faster, investment in fossil fuel alternatives would be greater, and/or fossil fuel
 alternatives would be used in greater amounts.

3 307. Moreover, had the Defendants provided adequate warnings about the adverse 4 impacts to public health and the environment that result from the intended and reasonably 5 foreseeable use of fossil fuel products and their derivatives, Plaintiff and its residents would have 6 taken measures to decrease fossil fuel dependency to avoid or lessen the climate change-related 7 harms described herein and property damage that would inevitably follow.

8 308. As a result of the Defendants' failure to warn about the unreasonably dangerous
9 conditions of their fossil fuel products and their derivatives, Defendants are liable to Plaintiff.

309. Defendants further breached their duty of care by making untruthful, deceptive,
and/or misleading environmental marketing claims, explicit and implied, in violation of Cal. Bus.
& Prof. Code § 17580.5. By violating the greenwashing statute, Defendants are presumed to have
breached their duty per se under Evidence Code § 669.

a. Defendants violated § 17580.5 with such conduct including deceptively
marketing fossil fuel products claimed to be "low carbon," "emissions-reducing," "clean" and/or
"green," or otherwise environmentally beneficial or benign when in reality those products
contribute to climate change and are harmful to the health of the planet and its people; and
deceptively marketing their companies and their products as contributing to solutions to climate
change when in reality their investments in clean energy and alternative fuels pale in comparison
to their investments in expanding fossil fuel production.

21

b. This conduct was the proximate cause of Plaintiff's climate related injuries.

c. Plaintiff's injuries resulted from an occurrence of the nature which the
greenwashing statute was designed to prevent.

24 d. Plaintiff is among the class of persons for whose protection the25 greenwashing statute was adopted.

310. Defendants' wrongful conduct was oppressive, malicious, and fraudulent, in that
their conduct was willful, intentional, and in conscious disregard for the rights of others.
Defendants' conduct was so vile, base, and contemptible that it would be looked down upon and

1	despised by reasonable people, justifying an award of punitive and exemplary damages in an		
2	amount subject to proof at trial, and justifying equitable disgorgement of all profits Defendants		
3	obtained through their unlawful and outrageous conduct.		
4	311. As a direct and proximate result of the defects previously described, fossil fuel		
5	products caused Plaintiff to sustain the injuries and damages set forth in this Complaint, including		
6	damage to publicly owned infrastructure and real property, and the creation and maintenance of a		
7	nuisance that interferes with the rights of the City, its residents, and of the People.		
8	312. Defendants' acts and omissions as alleged herein are indivisible causes of		
9	Plaintiff's injuries as alleged herein.		
10	313. As a direct and proximate result of Defendants' acts and omissions as alleged		
11	herein, Plaintiff has suffered monetary losses and damages in amounts to be proven at trial.		
12	314. Wherefore, Plaintiff prays for relief as set forth below.		
13	SEVENTH CAUSE OF ACTION		
14	(Trespass on Behalf of the City of Richmond)		
15	(Against All Defendants)		
16	315. Plaintiff incorporates by reference each and every allegation in §§ I–V contained		
17	above, as though set forth herein in full.		
18	316. Plaintiff owns, leases, occupies, and/or controls real property within Richmond		
19	boundaries and within communities located within the City.		
20	317. Defendants, and each of them, have intentionally, recklessly, or negligently caused		
21	ocean waters, storm surges, flood waters, extreme precipitation, and airborne pollutants including		
22	smog and wildfire smoke to enter Plaintiff's property, by advertising, promoting, marketing,		
23	and/or selling fossil fuel products in a manner which, knowing those products in their normal		
24	operation and use or foreseeable misuse would cause global and local sea levels to rise, cause		
25	flooding to become more frequent and more intense, and cause storm surges to become more		
26	frequent and more intense.		
27	318. Plaintiff did not give permission for Defendants, or any of them, to cause ocean		
28	water to enter its property.		
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319. Plaintiff has been and continues to be actually injured and continues to suffer 1 2 damages as a result of Defendants and each of their having caused ocean water to enter their real 3 property, by *inter alia* permanently submerging real property owned by Plaintiff, causing flooding 4 which have invaded and threatens to invade real property owned by Plaintiff and rendered it 5 unusable, and causing storm surges which have invaded and threatened to invade real Property owned by Plaintiff and rendered it unusable. 6

Defendants' and each Defendant's conduct, including their decades-long campaign 7 320. 8 of deception, which had the purpose and effect of inflating and sustaining the market for fossil 9 fuels, drove up greenhouse gas emissions, accelerated global warming, delayed the energy economy's transition to a lower-carbon future, and brought about devastating climate change 10 11 impacts to Richmond, was a substantial factor in causing the injuries and damages to Plaintiff's public and private real property. 12

13

321. Defendants' acts and omissions as alleged herein are indivisible causes of 14 Plaintiff's injuries and damage as alleged herein.

15 322. Defendants' wrongful conduct was oppressive, malicious, and fraudulent, in that 16 their conduct was willful, intentional, and in conscious disregard for the rights of others. Defendants' conduct was so vile, base, and contemptible that it would be looked down upon and 17 despised by reasonable people, justifying an award of punitive and exemplary damages in an 18 19 amount subject to proof at trial, and justifying equitable disgorgement of all profits Defendants 20 obtained through their unlawful and outrageous conduct.

21

323. Defendants are jointly and severally liable to the Plaintiff for causing trespass.

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324. Wherefore, Plaintiff prays for relief as set forth below.

VII. **PRAYER FOR RELIEF**

1. Compensatory damages in an amount according to proof;

2. Equitable relief to abate the nuisances complained of herein;

3. 26 Reasonable attorneys' fees pursuant to California Code of Civil Procedure 1021.5 or otherwise: 27

4. Punitive damages;

1	1 5. Disgorgement of profits;		
2	2 6. Finding Defendants jointly and severally liable for causing, creating, assisting i		
3	the creation, of, contributing to, and/or maintaining a public nuisance;		
4	7. Ordering an abatement fund remedy to be paid for by Defendants to provide for		
5	infrastructure and other support necessary for the People to abate the nuisances complained of		
6	herein;		
7	8. Pre- and post-judgment interest as permitted by law;		
8	9. Costs of suit and expenses; and		
9	10. For such and other relief as the court may deem proper.		
10	VIII. JURY DEMAND		
11			
	Plaintiff the City of Richmond demands a jury trial on all issues so triable.		
12	CITY OF RICHMOND		
13	CITY ATTORNEY'S OFFICE Dated: June 10, 2024		
14			
15	By: <u>/s/ Dave Aleshire</u> DAVE ALESHIRE		
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28			
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П

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3	eighteen (18) years and not a party to the action.	My business address is 100 Montgomery St., Ste.			
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6	On June 10, 2024, I served copies of the fo	ollowing document:			
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11	jdick@gibsondunn.com	mark.mckane@kirkland.com
12		
12	I declare under penalty of perjury that the	he foregoing is true and correct. Executed in San
13	Englisher CA on Isona 10, 2024	
14	Francisco, CA on June 10, 2024.	
14		
15		/s/ Oni Strawn
16		Oni Strawn
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