

1 XAVIER BECERRA
 Attorney General of California
 2 DAVID A. ZONANA
 Acting Senior Assistant Attorney General
 3 CHRISTIE VOSBURG
 Supervising Deputy Attorney General
 4 GEORGE TORGUN, SBN 222085
 YUTING YVONNE CHI, SBN 310177
 5 Deputy Attorneys General
 1515 Clay Street, 20th Floor
 6 P.O. Box 70550
 Oakland, CA 94612-0550
 7 Telephone: (510) 879-1002
 Fax: (510) 622-2270
 8 E-mail: George.Torgun@doj.ca.gov

9 *Attorneys for the State of California*

10 IN THE UNITED STATES DISTRICT COURT
 11 FOR THE CENTRAL DISTRICT OF CALIFORNIA
 12 WESTERN DIVISION
 13

14 **STATE OF CALIFORNIA,**

15 Plaintiff,

16 v.

17 **KAREN MOURITSEN, et al.,**

18 Defendants.
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28

Civ. No. 2:20-cv-00371-DSF-(ASx)

**CALIFORNIA’S NOTICE OF
 MOTION AND MOTION FOR
 SUMMARY JUDGMENT;
 MEMORANDUM OF POINTS AND
 AUTHORITIES**

Requested Hearing: June 28, 2021 at
 1:30 p.m.
 Judge: Hon. Dale S. Fischer
 Courtroom: 7D

1 **NOTICE OF MOTION AND MOTION FOR SUMMARY JUDGMENT**
2 **TO ALL PARTIES AND COUNSEL OF RECORD:**

3 PLEASE TAKE NOTICE that, on June 28, 2021 at 1:30 p.m., or as soon
4 thereafter as it may be heard, Plaintiff State of California, by and through Governor
5 Gavin Newsom, Attorney General Xavier Becerra, the California Air Resources
6 Board, the California Department of Fish and Wildlife, and the California
7 Department of Water Resources (collectively, “California”), by and through their
8 undersigned counsel, will, and hereby do, move for summary judgment pursuant to
9 Rule 56 of the Federal Rules of Civil Procedure, Civil Local Rules 7 and 56, and
10 this Court’s October 7, 2020 Order, ECF No. 29. This motion will be made before
11 the Honorable Dale S. Fischer, United States District Judge, First Street
12 Courthouse, 350 West First Street, Courtroom 7D, Los Angeles, California 90012.

13 Pursuant to Rule 56 of the Federal Rules of Civil Procedure, California
14 hereby moves for summary judgment on the ground that there is no genuine dispute
15 as to any material fact and the movant is entitled to judgment as a matter of law. In
16 support of this motion, California submits the accompanying Memorandum of
17 Points and Authorities and a Proposed Judgment.

18
19
20
21
22
23
24
25
26
27
28

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

TABLE OF CONTENTS

	Page
Introduction.....	1
Statutory Background	2
I. Federal Land Policy and Management Act.....	2
II. National Environmental Policy Act.....	2
Factual and Procedural Background.....	3
I. Hydraulic Fracturing on Federal Lands in California.....	3
II. The Disproportionate Impacts of Oil and Gas Activities on California Communities.....	4
III. California’s Efforts to Address Hydraulic Fracturing.	6
IV. Prior RMP Update and Legal Challenge.	7
V. Supplemental NEPA Process Leading to This Lawsuit.	8
Standard of Review.....	10
Argument	11
I. BLM Failed to Take a Hard Look at the Environmental Impacts of the Proposed Action.....	11
A. BLM’s Unfounded Assumption that Only “Zero to Four” Fracking Events Will Occur Distorted Its Consideration of Impacts and Their Significance.....	12
B. BLM Failed to Adequately Analyze and Disclose Air Pollution Impacts, Including Cumulative Impacts.	15
C. BLM Failed to Adequately Consider Potential Water Contamination and Land Subsidence.	17
D. BLM Failed to Consider Induced Seismicity.	19
E. BLM Disregarded Other Types of Well Stimulation and Hydraulic Fracturing on Existing Wells.....	21
F. BLM Failed to Adequately Consider Impacts to Low- Income and Minority Communities.....	23
II. BLM Failed to Consider Reasonable Alternatives.	25

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

TABLE OF CONTENTS
(continued)

	Page
III. BLM Failed to Identify or Discuss Adequate Mitigation Measures Regarding Impacts to Special-Status Species and Their Habitats.....	27
IV. BLM Failed To Consider Conflicts or Inconsistencies with State Policies and Plans.....	30
V. BLM Failed To Allow for Adequate Public Participation in the NEPA Process.....	33
Conclusion	35

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

TABLE OF AUTHORITIES

Page

CASES

Bennett v. Spear
520 U.S. 154 (1997) 10

Blue Mountains Biodiversity Project. v. Blackwood
161 F.3d 1208 (9th Cir. 1998)..... 12

California ex rel. Lockyer v. U.S. Dep’t of Agric.
459 F. Supp. 2d 874 (N.D. Cal. 2006)..... 25

California v. Block
690 F.2d 753 (9th Cir. 1982) 27

City of Carmel-By-The-Sea v. U.S. Dep’t of Transp.
123 F.3d 1142 (9th Cir. 1997)..... 28

Ctr. For Biological Diversity v. Salazar
695 F.3d 893 (9th Cir. 2012) 11

Idaho Sporting Cong. v. Rittenhouse
305 F.3d 957 (9th Cir. 2002) 3

Kern v. BLM
284 F.3d 1062 (9th Cir. 2002) *passim*

Klamath-Siskiyou Wildlands Ctr. v. BLM
387 F.3d 989 (9th Cir. 2004) 11

Los Padres ForestWatch v. U.S. BLM
2016 WL 5172009 (C.D. Cal. Sept. 6, 2016)..... *passim*

Motor Vehicle Mfrs. Ass’n of U.S., Inc. v. State Farm Mut. Auto. Ins.
463 U.S. 29 (1983) 11, 20, 27

N. Alaska Env’t Ctr. v. Kempthorne
457 F.3d 969 (9th Cir. 2006) 11, 16, 22

Nat’l Parks & Conservation Ass’n v. Babbitt
241 F.3d 722 (9th Cir. 2001) 29

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

TABLE OF AUTHORITIES
(continued)

	Page
<i>Native Ecosystems Council v. U.S. Forest Serv.</i> 418 F.3d 953 (9th Cir. 2005).....	3, 11, 15
<i>Neighbors of Cuddy Mountain v. U.S. Forest Serv.</i> 137 F.3d 1372 (9th Cir. 1998).....	29
<i>Or. Nat. Res. Council Fund v. Goodman</i> 505 F.3d 884 (9th Cir. 2007).....	11, 14
<i>Pac. Coast Fed’n of Fishermen’s Ass’ns, Inc. v. Nat’l Marine Fisheries Serv.</i> 265 F.3d 1028 (9th Cir. 2001).....	11
<i>Quechan Tribe of Ft. Yuma Indian Rsrv. v. U.S. Dep’t of the Interior</i> 927 F. Supp. 2d 921 (S.D. Cal. 2013).....	30
<i>Robertson v. Methow Valley Citizens Council</i> 490 U.S. 332 (1989).....	<i>passim</i>
<i>S. Fork Band Council of W. Shoshone of Nev. v. U.S. Dep’t of the Interior</i> 588 F.3d 718 (9th Cir. 2009).....	28, 29
<i>W. Watersheds Project v. Abbey</i> 719 F.3d 1035 (9th Cir. 2013).....	25
<i>W. Watersheds Project v. Zinke</i> 441 F. Supp. 3d 1042 (D. Idaho 2020).....	35
 FEDERAL STATUTES	
5 U.S.C. § 706.....	10
16 U.S.C. § 1532(19).....	29
16 U.S.C. § 1538(a).....	29
42 U.S.C. § 4332.....	11
42 U.S.C. § 4332(2)(C).....	3

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

TABLE OF AUTHORITIES
(continued)

	Page
42 U.S.C. § 4332(2)(C)(iii)	25
43 U.S.C. § 1701(a)(7)	2
43 U.S.C. § 1701(a)(8)	2
43 U.S.C. § 1712(a)	2
43 U.S.C. § 1712(c)	2
43 U.S.C. § 1712(f).....	33
43 U.S.C. § 1732.....	2
 FEDERAL REGULATIONS	
40 C.F.R. § 1500.1(a)	3
40 C.F.R. § 1500.1(b)	3, 11, 15
40 C.F.R. § 1500.1(c)	3
40 C.F.R. § 1500.2(e)	26
40 C.F.R. § 1501.2(a)	3, 18
40 C.F.R. § 1502.1	11, 14
40 C.F.R. § 1502.9	33
40 C.F.R. § 1502.14.....	25, 26
40 C.F.R. § 1502.14(a)	25
40 C.F.R. § 1502.14(f).....	27
40 C.F.R. § 1502.16(c)	30
40 C.F.R. § 1502.16(h)	27
40 C.F.R. § 1506.2(d)	30

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

TABLE OF AUTHORITIES
(continued)

	Page
40 C.F.R. § 1506.6.....	33
40 C.F.R. § 1508.7.....	3, 16, 23
40 C.F.R. § 1508.8(a)	3
40 C.F.R. § 1508.8(b)	3
40 C.F.R. § 1508.20.....	27
40 C.F.R. § 1508.25.....	16, 22
40 C.F.R. § 1508.27.....	23
43 C.F.R. § 1610.2(a)	33, 35
43 C.F.R. § 1610.2(e)	33, 34
FEDERAL REGISTER NOTICES	
59 Fed. Reg. 7,629 (Feb. 16, 1994)	23
73 Fed. Reg. 11,661 (Mar. 4, 2008)	8
80 Fed. Reg. 16,128 (Mar. 26, 2015)	4, 12
83 Fed. Reg. 39,116 (Aug. 8, 2018)	8
84 Fed. Reg. 58,739 (Nov. 1, 2019)	10
85 Fed. Reg. 43,304 (July 16, 2020)	3
STATE STATUTES	
Cal. Fish & Game Code § 2000.....	29
Cal. Fish & Game Code § 2080.....	29
Cal. Fish & Game Code § 12000(a)	29

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

TABLE OF AUTHORITIES
(continued)

	Page
Cal. Fish & Game Code § 12008.....	29
Cal. Fish & Game Code § 12008.1.....	29
Cal. Health & Safety Code § 38566.....	31
Cal. Health & Safety Code § 44391.2.....	32
Cal. Water Code § 106.3.....	32
Cal. Water Code § 10720.....	32
 STATE REGULATIONS	
Cal. Code Regs. § 550.....	33
Cal. Code Regs. § 550.5.....	33
Cal. Code Regs. § 630.....	33
Cal. Code Regs. § 630(b)(78).....	33
Cal. Code Regs. § 630(b)(124).....	33

INTRODUCTION

1
2 California’s action challenges the Final Supplemental Environmental Impact
3 Statement (“Final SEIS”) and Record of Decision issued by the U.S. Bureau of
4 Land Management (“BLM”) to address the environmental and public health
5 consequences of allowing hydraulic fracturing on 400,000 acres of public lands and
6 1.2 million acres of federal mineral estate in eight central California counties. BLM
7 conducted this environmental review to update its resource management plan for
8 the Bakersfield region and, specifically, to address deficiencies in its previous
9 review as found by this Court. However, BLM’s analysis again failed to take a
10 “hard look” at many of the significant impacts associated with hydraulic fracturing
11 or provide sufficient evidence regarding its conclusions, in violation of the National
12 Environmental Policy Act (“NEPA”).

13 At the outset, BLM wholly distorted its analysis by presuming that just zero
14 to four hydraulic fracturing operations would take place each year—contrary to its
15 own data and evidence in the record. BLM’s analysis of specific impacts then piled
16 on many additional errors, such as failing to consider cumulative air impacts from
17 another massive leasing plan in the same air basin and dismissing groundwater
18 impacts based on a false assumption that most wastewater ponds are lined.
19 Consideration of land subsidence and induced seismicity were given short shrift,
20 while impacts from the use of other well stimulation methods, and hydraulic
21 fracturing of existing wells, were ignored. BLM further failed to consider
22 reasonable alternatives to action, adequate mitigation measures related to species
23 impacts, or inconsistency with state policies or plans on many of these issues.

24 But perhaps most disturbing is BLM’s casual disregard of its obligation to
25 consider the environmental and human health impacts of its action on low-income
26 communities and communities of color. BLM’s action will disparately impact
27 communities that already bear some of the highest air and water pollution burdens
28 in the State—burdens that are due in part to existing oil and gas activities in the

1 region. BLM compounded this violation by failing to provide affected communities
2 and the public with a meaningful opportunity to participate in the preparation of the
3 Final SEIS.

4 For these reasons, the Court should grant California’s motion and vacate the
5 Final SEIS and Record of Decision.

6 **STATUTORY BACKGROUND**

7 **I. FEDERAL LAND POLICY AND MANAGEMENT ACT.**

8 The Federal Land Policy and Management Act of 1976 (“FLPMA”), 43
9 U.S.C. § 1701 *et seq.*, governs the management of public lands and mineral estates
10 administered by BLM. Pursuant to FLPMA, BLM develops resource management
11 plans (“RMPs”) to guide the management of public lands and mineral estates within
12 BLM’s jurisdiction. In particular, FLPMA requires BLM to “develop, maintain, and
13 when appropriate, revise land use plans” to ensure that land management is
14 conducted “on the basis of multiple use and sustained yield.” 43 U.S.C.
15 §§ 1701(a)(7), 1712(a), 1732. Such plans provide standards and guidance for all
16 site-specific activities that occur on the land at issue, effectively defining BLM’s
17 approach to management decisions for the next ten to fifteen years. BLM has issued
18 regulations for developing and revising RMPs. 43 C.F.R. Part 1600.

19 In addition, FLPMA requires that public lands be managed “in a manner that
20 will protect the quality of scientific, scenic, historical, ecological, environmental,
21 air and atmospheric, water resource, and archeological values.” 43 U.S.C.
22 § 1701(a)(8). In developing RMPs, BLM must “consider present and potential uses
23 of the public lands; . . . the relative scarcity of the values involved[;] . . . weigh
24 long-term benefits to the public against short-term benefits; [and] provide for
25 compliance with applicable pollution control laws.” *Id.* § 1712(c). RMPs are
26 subject to environmental review under NEPA.

27 **II. NATIONAL ENVIRONMENTAL POLICY ACT.**

28 NEPA, 42 U.S.C. § 4321 *et seq.*, is the “basic national charter for the

1 protection of the environment.” 40 C.F.R. § 1500.1(a). NEPA’s fundamental
 2 purposes are to guarantee that agencies take a “hard look” at the consequences of
 3 their actions before the actions occur by ensuring that “the agency, in reaching its
 4 decision, will have available, and will carefully consider, detailed information
 5 concerning significant environmental impacts,” and to ensure that “the relevant
 6 information will be made available to the larger audience that may also play a role
 7 in both the decisionmaking process and the implementation of that decision.”
 8 *Robertson v. Methow Valley Citizens Council*, 490 U.S. 332, 349-50 (1989); 40
 9 C.F.R. § 1500.1(b)-(c). The Council on Environmental Quality (“CEQ”) has issued
 10 regulations implementing NEPA, which are binding on all federal agencies. 40
 11 C.F.R. Part 1500.¹

12 To achieve its purposes, NEPA requires the preparation of a detailed
 13 environmental impact statement (“EIS”) for any “major federal action significantly
 14 affecting the quality of the human environment.” 42 U.S.C. § 4332(2)(C). In taking
 15 a “hard look,” NEPA requires federal agencies to consider the direct, indirect, and
 16 cumulative impacts of its proposed action. *Idaho Sporting Cong. v. Rittenhouse*,
 17 305 F.3d 957, 973 (9th Cir. 2002); 40 C.F.R. §§ 1508.7, 1508.8(a), (b). Moreover,
 18 “an agency may not rely on incorrect assumptions or data.” *Native Ecosystems*
 19 *Council v. U.S. Forest Serv.*, 418 F.3d 953, 964 (9th Cir. 2005) (citing 40 C.F.R.
 20 § 1500.1(b)). “The information must be of high quality. Accurate scientific
 21 analysis, expert agency comments, and public scrutiny are essential to
 22 implementing NEPA.” 40 C.F.R. § 1500.1(b). In addition, the environmental
 23 analysis must be conducted at the “earliest reasonable time.” *Id.* § 1501.2(a).

24 **FACTUAL AND PROCEDURAL BACKGROUND**

25 **I. HYDRAULIC FRACTURING ON FEDERAL LANDS IN CALIFORNIA.**

26 In recent years, the United States has experienced a boom in oil and gas

¹ On July 16, 2020, CEQ finalized an update to its 1978 regulations implementing NEPA, which took effect on September 14, 2020. *See* 85 Fed. Reg. 43,304 (July 16, 2020). Because the Final SEIS was finalized under the prior 1978 regulations, those regulations govern and are cited herein.

1 production through the use of well stimulation treatments such as hydraulic
2 fracturing combined with horizontal drilling. Hydraulic fracturing is a procedure by
3 which oil and gas producers inject water, sand, and certain chemicals at high
4 pressure into tight-rock formations to create fissures in the rock and allow oil and
5 gas to escape for collection in a well. AR9008.² While most of the fluid is water, an
6 assortment of chemicals, some of which are known carcinogens or other types of
7 toxins, are added for different purposes such as lubrication of the fracture and
8 minimization of corrosion. AR9008. Much of the fracturing fluid, along with
9 subsurface fluids, flows back to the surface and can be held in circulation tanks that
10 are often open to the atmosphere. AR9008. This water is typically disposed of by
11 subsequent injection into underground wells. AR9008.

12 This technology has become controversial because growing scientific
13 evidence ties hydraulic fracturing and related activities with water and air pollution
14 and a prolonged dependence on fossil fuels. AR9008. Inadequate well casings in
15 groundwater zones can break during hydraulic fracturing operations and allow
16 hydraulic fracturing fluids to infiltrate groundwater. AR9008. Air pollution can
17 result from the handling of the hydraulic fracturing fluids, which contain toxic
18 chemicals that could evaporate through handling and storage. AR9008.

19 BLM has estimated that 90 percent of new wells drilled on federal lands are
20 now being stimulated using hydraulic fracturing. *See* 80 Fed. Reg. 16,128, 16,131,
21 16,190 (Mar. 26, 2015). The BLM Bakersfield Field Office manages 400,000 acres
22 of public lands and an additional 1.2 million acres of federal mineral estate in the
23 counties of Fresno, Kern, Kings, Madera, San Luis Obispo, Santa Barbara, Tulare,
24 and Ventura Counties (the “Planning Area”). AR48, 9009.

25 **II. THE DISPROPORTIONATE IMPACTS OF OIL AND GAS ACTIVITIES ON**
26 **CALIFORNIA COMMUNITIES.**

27 Much of federal oil and gas activities in California occur in close proximity

² The administrative record is cited as “AR[page number]” excluding lead zeros.

1 to the state’s most vulnerable communities, who already are disproportionately
2 exposed to pollution and its health effects. AR9018-19. In particular, the Planning
3 Area is home to many communities that are disproportionately exposed to pollution
4 and who are most vulnerable to pollution’s effects, called “disadvantaged
5 communities” under California law. AR9018. Many census tracts in the Planning
6 Area meet this standard, most notably in Kern, Tulare, Kings, and Fresno counties,
7 with pockets in Ventura and Santa Barbara counties. AR9018. This means that
8 communities in these counties already are exposed to significantly more air and
9 water pollution than other parts of the state, and they are more vulnerable to that
10 exposure. AR9018. In Kern County, 35 percent of residents already live within one
11 mile of at least one oil or gas well; a disproportionate number of them (58 percent)
12 are people of color. AR9021.

13 With regard to air quality, seven of the eight counties in the Planning Area
14 are already in non-attainment with particulate matter, ozone, or both air quality
15 standards. Ozone is among the most widespread and significant air pollution health
16 threats in California, including in the Planning Area. AR9019. The Central Valley
17 in particular experiences some of the worst particulate matter pollution in the state.
18 AR9019. The majority of residents living within five miles of an existing well in
19 Kern County already experience greater ozone pollution than 80 percent of the
20 state, and greater particulate matter pollution than 90 percent of the state. AR9060-
21 62. These pollutants increase the rates and risks of asthma, heart disease, lung
22 disease, and cancer. AR9019.

23 With regard to drinking water supply and quality, parts of Planning Area
24 already suffer from some of the worst drinking water contamination problems in the
25 state. Residents in the vast majority of the Planning Area already drink water that
26 contains contamination from chemicals or bacteria. AR9019. The majority of public
27 water systems in California rely on groundwater, and more than 25 percent of those
28 systems rely on a contaminated groundwater source. AR9019-21. Kern County in

1 particular has the second highest number of community water systems that rely on
2 contaminated groundwater. AR9021. Furthermore, many residents in the Planning
3 Area rely on private, domestic (unregulated) wells for drinking water, for which
4 there are significant contamination issues. AR9021.

5 In addition, California is already experiencing the adverse effects of climate
6 change, which is aggravated by greenhouse gas emissions released through oil and
7 gas extraction. AR9007. These effects include increased risk of wildfires, reduced
8 average annual snowpack that provides approximately 35 percent of the State’s
9 water supply, increased erosion of beaches and low-lying coastal properties from
10 rising sea levels, and increased formation of ground-level ozone (or smog), which is
11 linked to asthma, heart attacks, and pulmonary problems, especially in children and
12 the elderly. AR78-79, 223, 9023, 9511. Since 2006, California has witnessed 16 of
13 the 20 most destructive wildfires in state history—6 of them in 2020 alone.³

14 **III. CALIFORNIA’S EFFORTS TO ADDRESS HYDRAULIC FRACTURING.**

15 In 2013, California adopted Senate Bill 4 (SB 4) (Pavley, Chap. 313), which
16 established a regulatory regime for oil and gas well stimulation treatments,
17 including hydraulic fracturing, and required an independent scientific study to
18 evaluate the hazards and risk of such treatments.

19 In July 2015, the California Geologic Energy Management Division
20 (“CalGEM,” formerly known as the Division of Oil, Gas, and Geothermal
21 Resources, or “DOGGR”) certified an environmental impact report which found
22 that well stimulation treatments including hydraulic fracturing, depending on site-
23 specific conditions and well stimulation intensity, could cause significant and
24 unavoidable impacts to the environment. AR17881-20137. For example, CalGEM’s
25 analysis found that in Kern County, air emissions from hydraulic fracturing “would
26 occur at levels that could violate an air quality standard or contribute substantially
27 to an existing or projected air quality violation.” AR17892. CalGEM also found
28 that “[w]ell stimulation activities could affect endangered, rare, or threatened

³ CalFire, Top 20 Most Destructive California Wildfires (Nov. 3, 2020),
https://www.fire.ca.gov/media/t1rdhizr/top20_destruction.pdf.

1 species of fish, wildlife or plants,” and mitigation would be required to “avoid
2 hazards such as vehicle strikes, nest disturbance, entrapment, collision,
3 electrocution, and hazardous materials.” AR19375, 19377.

4 The California Council on Science and Technology (“CCST”) also identified
5 several potential impacts from hydraulic fracturing in a July 2015 study, including
6 the release of volatile organic compounds (“VOCs”) from retention ponds and tanks
7 storing well stimulation fluids or produced water, and induced seismicity (*i.e.*,
8 earthquakes) from the disposal of wastewater in disposal wells. AR16113.

9 On November 19, 2019, Governor Gavin Newsom announced a series of
10 initiatives to safeguard public health and the environment from hydraulic fracturing
11 and other well stimulation techniques to advance California’s goal to become
12 carbon-neutral by 2045, and to manage the decline of oil production and
13 consumption in the State.⁴ The Governor also imposed a moratorium on new
14 extraction wells that use a high-pressure cyclic steaming process to break oil
15 formations below the ground to determine whether the process can be done safely
16 and in compliance with state regulations. In addition, the Governor announced a
17 process to strengthen public health and safety protections near oil and gas
18 extraction facilities, including by evaluating a prohibition on oil and gas activities
19 close to homes, schools, hospitals, and parks.

20 California law establishes targets to reduce the State’s greenhouse gas
21 emissions to 1990 levels by 2020 and 40 percent below 1990 levels by 2030, and to
22 achieve 100 percent of electricity sales from renewable energy and zero-carbon
23 resources by 2045. AR9023. California has also set a goal of reaching 5 million
24 zero-carbon emission vehicles on the State’s roads by 2030, a 15-fold increase from
25 current levels. Executive Order B-48-18.

26 **IV. PRIOR RMP UPDATE AND LEGAL CHALLENGE.**

27 On March 4, 2008, BLM’s Bakersfield Field Office published a notice of

⁴ California Dep’t of Conservation, California Announces New Oil and Gas Initiatives (Nov. 19, 2019), <https://www.conservation.ca.gov/index/Pages/News/California-Establishes-Moratorium-on-High-Pressure-Extraction.aspx>.

1 intent to prepare a new RMP for the Planning Area, seeking to update two existing
2 plans from 1984 and 1997. 73 Fed. Reg. 11,661 (Mar. 4, 2008).

3 On August 31, 2012, BLM issued a Final EIS purporting to evaluate the
4 environmental impacts of its proposed RMP for the Planning Area. AR1962-3034.
5 Under the preferred alternative (B), 1,011,470 acres of federal mineral estate, or 85
6 percent of the Planning Area, would be open to oil and gas leasing. AR2210.

7 BLM also completed a Reasonably Foreseeable Development Scenario that
8 projected the exploration, drilling, and production activities that would likely occur
9 in the next 10 years. AR2995-3008. BLM estimated that 100 to 400 wells will be
10 drilled on federal mineral estate each year, including 90 to 360 wells on existing
11 leases and 10 to 40 wells on new leases. AR2321, 2997. BLM further estimated that
12 25 percent of these wells would be hydraulically fractured. AR1631. BLM
13 approved the record of decision for the RMP on December 22, 2014. AR1640.

14 On June 10, 2015, the Center for Biological Diversity and Los Padres
15 ForestWatch challenged that approval in this Court. *Los Padres ForestWatch v.*
16 *U.S. BLM*, Case No. 2:15-cv-04378 MWF (JEMx) (C.D. Cal., complaint filed June
17 10, 2015). On September 6, 2016, this Court ruled on the parties' cross-motions for
18 summary judgment, finding that BLM violated NEPA by failing to analyze the
19 impacts of hydraulic fracturing in the Planning Area and required BLM to
20 supplement its analysis. *ForestWatch*, 2016 WL 5172009, at *10-13 (C.D. Cal.
21 Sept. 6, 2016). On May 3, 2017, this Court approved a settlement agreement in
22 which BLM agreed to prepare appropriate NEPA documentation to address the
23 deficiencies identified by the Court, and to issue a new decision document that
24 would amend or supersede the 2014 RMP, if appropriate. AR3.

25 **V. SUPPLEMENTAL NEPA PROCESS LEADING TO THIS LAWSUIT.**

26 On August 8, 2018, BLM issued a notice of intent to prepare a Draft
27 Supplemental EIS ("Draft SEIS") and potential RMP amendment for the Planning
28 Area, and requested scoping comments. 83 Fed. Reg. 39,116 (Aug. 8, 2018).

1 Among other commenters, six California state agencies—including the California
2 Department of Fish and Wildlife (“CDFW”), California Department of Water
3 Resources (“CDWR”), and California Air Resources Board (“CARB”)—submitted
4 a joint letter expressing concerns with the potential significant adverse effects of
5 this activity and its impact on the State’s ability to meet its fossil fuel and
6 greenhouse gas emissions reduction goals. AR8132-51. In a cover letter, then-
7 Governor Jerry Brown wrote that BLM “should abandon this effort and not pursue
8 opening any new areas for oil and gas leases in this state,” given that such an
9 approach is “contrary to the course California has set to combat climate change and
10 to meet its share of the goals outlined in the Paris Agreement.” AR8132-33.

11 On April 26, 2019, BLM issued a Draft SEIS “to analyze the environmental
12 effects of the use of hydraulic fracturing technology in oil and gas development on
13 new leases within the Planning Area and to determine whether changes are needed
14 to the fluid minerals decisions in the 2014 RMP.” AR1449. BLM “carried-forward”
15 the prior alternatives into its Draft SEIS, including Alternative B, which would
16 open 1,011,470 acres of federal mineral estate to oil and gas leasing (the “Proposed
17 Action”). AR1479. For its updated analysis, BLM assumed that 40 wells on new
18 leases would be drilled each year, and that “zero to four” of these wells would be
19 hydraulically fractured. AR1510. Given this low estimate, BLM concluded that no
20 significant impacts would result, including impacts related to greenhouse gas
21 emissions, air quality, water resources, biological resources, and induced seismic
22 events. AR1509-69. Because BLM did not find any “notable increase in total
23 impacts” resulting from the Proposed Action, it also determined that an amendment
24 to the 2014 RMP was “unnecessary.” AR1481.

25 On June 6, 2019, CDFW submitted comments on the Draft SEIS, followed
26 by the California Attorney General, CARB, and CDWR on June 10, 2019. AR9006,
27 12028, 14728. These comments identified numerous deficiencies in the Draft SEIS
28 and recommended that BLM withdraw its Draft SEIS and prepare a new analysis

1 that fully considers the impacts of opening over one million acres of public lands in
2 California to oil and gas leasing. AR9006-10105, 12028-38, 14728-57.

3 On November 1, 2019, BLM issued a notice of availability of the Final SEIS.
4 84 Fed. Reg. 58,739 (Nov. 1, 2019). BLM stated that “no amendment to the 2014
5 RMP is necessary” because the Final SEIS “did not show a notable increase in total
6 impacts,” “[n]o conflicts were found between the estimated impacts of hydraulic
7 fracturing and the resource or program management goals and objectives stated in
8 the 2014 RMP,” and “[t]he range of alternatives has not changed between the
9 approved 2014 RMP and its 2012 Final EIS” and the Final SEIS. *Id.* at 58,739.
10 Consequently, BLM determined that “[b]ecause there are no changes to the RMP,
11 no protest period is required and none is given.” *Id.*

12 Other than providing some additional discussion on a few topics, the Final
13 SEIS did not materially differ from the Draft SEIS. On December 12, 2019, BLM
14 issued its Record of Decision for the Final SEIS. AR1-7.

15 On January 14, 2020, eight environmental justice and conservation groups,
16 including the Center for Biological Diversity and Los Padres ForestWatch
17 (“Environmental Plaintiffs”), filed a complaint in this Court challenging BLM’s
18 flawed environmental review. ECF No. 1. California filed its complaint three days
19 later. *California v. Stout*, No. 2:20-cv-504, ECF No. 1 (complaint filed Jan. 17,
20 2020). On April 2, 2020, the Court consolidated these cases.

21 STANDARD OF REVIEW

22 The Administrative Procedure Act (“APA”), 5 U.S.C. § 706(2)(A), governs
23 the procedural requirements for agency decision-making and provides the standard
24 of review for assessing compliance with NEPA and FLPMA. The Record of
25 Decision and Final SEIS are final agency actions that must be set aside under the
26 APA if they are found to be “arbitrary, capricious, an abuse of discretion, or
27 otherwise not in accordance with law.” *See Bennett v. Spear*, 520 U.S. 154, 174
28 (1997); 5 U.S.C. § 706. A final agency action is arbitrary and capricious if the

1 agency (i) has relied on factors which Congress has not intended it to consider; (ii)
 2 has not “considered the relevant factors”; (iii) entirely failed to consider an
 3 important aspect of the problem; (iv) offered an explanation for its decision that
 4 runs counter to the evidence before the agency; (v) failed to “articulate a rational
 5 connection between the facts found and the conclusions made”; or (vi) is so
 6 implausible that it could not be ascribed to a difference of view or the product of
 7 agency expertise. *See Or. Nat. Res. Council Fund v. Goodman*, 505 F.3d 884, 889
 8 (9th Cir. 2007); *Pac. Coast Fed’n of Fishermen’s Ass’ns, Inc. v. Nat’l Marine*
 9 *Fisheries Serv.*, 265 F.3d 1028, 1034 (9th Cir. 2001); *Motor Vehicle Mfrs. Ass’n of*
 10 *U.S., Inc. v. State Farm Mut. Auto. Ins.*, 463 U.S. 29, 43 (1983).

11 In reviewing an EIS under NEPA, this Court must ensure that the agency has
 12 taken a “hard look” at the environmental consequences of its proposed action.
 13 *Kern v. BLM*, 284 F.3d 1062, 1071 (9th Cir. 2002).

14 ARGUMENT

15 I. BLM FAILED TO TAKE A HARD LOOK AT THE ENVIRONMENTAL 16 IMPACTS OF THE PROPOSED ACTION.

17 NEPA requires agencies to take a “hard look” at the environmental
 18 consequences of proposed agency actions before those actions are undertaken.
 19 *Klamath-Siskiyou Wildlands Ctr. v. BLM*, 387 F.3d 989, 993 (9th Cir. 2004); *see* 42
 20 U.S.C. § 4332. “To take the required ‘hard look’ at a proposed project’s effects, an
 21 agency may not rely on incorrect assumptions or data,” may not defer the analysis
 22 to a later date “when meaningful consideration can be given now,” and must
 23 consider all foreseeable direct, indirect, and cumulative impacts of its proposed
 24 action. *Native Ecosystems Council*, 418 F.3d at 964 (citing 40 C.F.R. § 1500.1(b));
 25 *Kern*, 284 F.3d at 1075; *see N. Alaska Env’t Ctr. v. Kempthorne*, 457 F.3d 969, 975
 26 (9th Cir. 2006); *Ctr. For Biological Diversity v. Salazar*, 695 F.3d 893, 916-17 (9th
 27 Cir. 2012). Furthermore, an agency must provide sufficient evidence and analysis to
 28 support its conclusions. *See* 40 C.F.R. § 1502.1. As the Ninth Circuit has stated,

1 “general statements about ‘possible effects’ and ‘some risk’ do not constitute a
2 ‘hard look’ absent a justification regarding why more definitive information could
3 not be provided.” *Blue Mountains Biodiversity Project. v. Blackwood*, 161 F.3d
4 1208, 1213 (9th Cir. 1998).

5 Here, BLM failed to consider several environmental impacts of its Proposed
6 Action, or to support its conclusions with adequate analysis. This failure violates
7 NEPA’s “hard look” requirement and is arbitrary and capricious under the APA.

8 **A. BLM’S UNFOUNDED ASSUMPTION THAT ONLY “ZERO TO**
9 **FOUR” FRACKING EVENTS WILL OCCUR DISTORTED ITS**
10 **CONSIDERATION OF IMPACTS AND THEIR SIGNIFICANCE.**

11 Rather than providing the sufficient analysis or evidence required by NEPA
12 to take a “hard look” at its Proposed Action, BLM’s findings in the Final SEIS are
13 based an unfounded assumption that only “zero to four” hydraulic fracturing events
14 will occur in the Planning Area each year, or “0 to 40” over the 10-year life of the
15 RMP. AR87, 97. This assumption is not backed by any underlying data or analysis,
16 and is contrary to BLM’s own prior estimates.

17 For example, in the 2012 Bakersfield Proposed RMP, BLM estimated that 25
18 percent of new wells in the Planning Area are expected to use hydraulic fracturing.
19 *ForestWatch*, 2016 WL 5172009 at *1, 11 (“[T]he prominent role fracking is
20 expected to play in the future is undisputed in the record.”). Moreover, BLM has
21 previously stated that about 90 percent of new wells drilled on public lands are
22 hydraulically fractured. 80 Fed. Reg. at 16,190 (“BLM estimates that 90 percent of
23 the wells drilled on Federal and Indian land are hydraulically fractured.”). While
24 BLM now cites to a report by the CCST regarding this “low rate” of hydraulic
25 fracturing, the CCST found that “[a]bout 150 wells per month undergo hydraulic
26 fracturing,” primarily in the southwestern San Joaquin Valley, including oil fields
27 within the Planning Area. *Cf.* AR15775-77, with AR50, 87.

28 Moreover, in a May 2019 Final EIS released by BLM’s Central Coast Field

1 Office for another RMP, BLM noted that “hydraulic fracturing has been used as a
2 production stimulation method in California since the late 1960s and is considered a
3 standard technique for production.” AR69483 n.3. For its analysis in the Central
4 Coast Final EIS, BLM assumed that well stimulation technologies and enhanced oil
5 recovery techniques would “be used on any or all” new exploratory and
6 development wells drilled on federal oil and gas leases over the next 15 to 20 years.
7 AR69477, 69494, 69812, 69847.

8 BLM’s assumption that only “zero to four” hydraulic fracturing events will
9 occur in the Planning Area each year distorted its consideration of several
10 environmental impacts and significance factors. For example, in analyzing the
11 greenhouse gas and other air pollution anticipated to result from the Proposed
12 Action, BLM calculated the emissions based on the development of just 40 wells
13 over the 10-year life of the 2014 RMP. *See* AR97-107. Similarly, with regard to
14 water resources, BLM found this amount of hydraulic fracturing would consume
15 just 8.0 million gallons (25 acre-feet) of water during the 10-year planning period,
16 and that “[t]he risk of impacts to groundwater due to spills of fracturing fluids from
17 the completion of an average of zero to four wells per year would be negligible.”
18 AR128-130. And because of the small number of anticipated hydraulic fracturing
19 events and related wastewater disposal, BLM summarily concluded that “negligible
20 impacts related to earthquake potential from oil and gas disposal wells associated
21 with hydraulic fracturing alone would be expected.” AR135.

22 Given that BLM’s quantification regarding the number of wells which may
23 be hydraulically fractured is significantly underestimated, it is likely that the
24 Proposed Action will result in exceedances of the applicable significance
25 thresholds. For example, BLM anticipates that the Proposed Action’s emissions
26 will approach the applicable general conformity *de minimis* thresholds for certain
27 pollutants in the San Joaquin Valley air basin, including nitrogen oxides (“NO_x”)
28 and reactive organic gases (“ROG”), two critical contributors to ozone formation.

1 AR105. The San Joaquin Valley is already classified as extreme nonattainment for
2 8-hour ozone. AR105. If the number of hydraulically fractured wells is even
3 slightly underrepresented, then one or both of these thresholds would likely be
4 exceeded, resulting in significant air quality impacts. The Proposed Action’s
5 greenhouse gas emissions would also likely exceed the 25,000 metric tons of
6 carbon dioxide equivalent (“MTCO_{2e}”) annual threshold for the U.S.
7 Environmental Protection Agency’s mandatory reporting program for greenhouse
8 gases, which the Final SEIS appears to use as a greenhouse gas significance
9 threshold. AR100.

10 Rather than revising the “zero to four” assumption in the Final SEIS as
11 requested by commenters, BLM’s response to comments regarding this unfounded
12 assumption simply remarked that BLM “integrated data from DOGGR (2018b) and
13 FracFocus (2018) databases.” AR87, 408-10. This response is insufficient to meet
14 NEPA’s requirement that agencies “articulate a rational connection between the
15 facts found and the conclusions made.” *See Or. Nat. Res. Council Fund*, 505 F.3d at
16 889. BLM gestured vaguely toward these databases, neither identifying the datasets
17 on which it relied nor providing any analysis on how they are relevant to the “zero
18 to four” assumption. *See* 40 C.F.R. § 1502.1 (requiring an agency to provide
19 sufficient evidence and *analysis* to support its conclusions). Its vagueness thwarts
20 NEPA’s purpose to make available relevant information to the public to support an
21 informed decisionmaking process. *See Robertson*, 490 U.S. at 349-50.

22 Moreover, it is unclear what BLM means by “DOGGR (2018b)” because the
23 name of this document or dataset does not seem to exist in the administrative
24 record. Furthermore, the second dataset that BLM referenced, “FracFocus (2018)”
25 indicates that at least 60 wells were hydraulically fractured each year in Kern
26 County alone from 2011 to 2018. AR22362-460. From 2012 to 2015, between 600
27 and 800 wells were hydraulically fractured in Kern County. AR22382-447. The
28 records do not indicate, and BLM does not explain, how this data set relates to

1 BLM’s projections for the amount of oil and gas development that will occur in the
 2 Planning Area. Rather, the large volume of hydraulic fracturing described in this
 3 dataset indicates that BLM’s assumption—that only “zero to four” wells would be
 4 hydraulically fractured each year in the Planning Area—has no basis.

5 Therefore, BLM’s reliance on the unfounded “zero to four” assumption is
 6 arbitrary and capricious, in violation of NEPA and the APA. *See Native Ecosystems*
 7 *Council*, 418 F.3d at 964 (holding that reliance on incorrect assumption violates the
 8 “hard look” requirement of NEPA) (citing 40 C.F.R. § 1500.1(b)).⁵

9 **B. BLM FAILED TO ADEQUATELY ANALYZE AND DISCLOSE AIR**
 10 **POLLUTION IMPACTS, INCLUDING CUMULATIVE IMPACTS.**

11 In addition to severely underestimating air pollution effects under its
 12 unfounded “zero to four” assumption, the Final SEIS failed to consider other air
 13 pollution impacts, including emissions from toxic air contaminants. Ponds that store
 14 water from hydraulic fracturing operations have the potential to generate significant
 15 emissions of toxic air contaminants. AR12034. There are more than 1,000 produced
 16 water ponds in California, and most are located in the Planning Area. AR12034. In
 17 addition, the Final SEIS failed to consider the cumulative air impacts of this
 18 Planning Area combined with oil and gas development in the adjacent Central
 19 Coast region.

20 In its response to comments, BLM argues that it did not consider the
 21 potential impacts of toxic air contaminants from storage ponds because the Court’s
 22 decision in *ForestWatch* required it to consider only impacts from future hydraulic
 23 fracturing operations. AR407. This justification is beside the point. Because
 24 produced water from the Proposed Action’s hydraulic fracturing operations
 25 foreseeably are stored in existing or new ponds in the Planning Area, consideration
 26 of these ponds’ emissions is very much relevant to the inquiry of whether future
 27 hydraulic fracturing operations would foreseeably impact air quality in an already

⁵ For reasons articulated by Environmental Plaintiffs, BLM’s inexplicable decision to limit its analysis of hydraulic fracturing impacts to only new leases—ignoring the hundreds of new wells that would be drilled on *existing* leases in the Planning Area—is also arbitrary and capricious. ECF No. 59-1 at 22-26 (“Env’t Pls. Br.”).

1 polluted basin. *See* 40 C.F.R. § 1508.25; *N. Alaska Env't Ctr. v.*, 457 F.3d at 975
2 (finding that the “hard look” requirement of NEPA includes “considering all
3 foreseeable direct and indirect impacts”).

4 Furthermore, the Final SEIS failed to adequately analyze and disclose the
5 cumulative air pollution impacts related to this issue. A cumulative impact is
6 defined as “the impact on the environment which results from the incremental
7 impact of the action when added to other past, present, and reasonably foreseeable
8 future actions Cumulative impacts can result from individually minor but
9 collectively significant actions taking place over a period of time.” 40 C.F.R.
10 § 1508.7.

11 BLM is well aware of the RMP Amendment and Final EIS for oil and gas
12 leasing in the neighboring Central Coast region, which involves considerable new
13 well development, including a BLM-estimated 37 new wells annually that would
14 involve hydraulically fracturing. AR69498-99. Yet, inexplicably, the Final SEIS for
15 Bakersfield failed to mention that other major BLM planning effort, which would
16 involve the development of new hydraulically-fractured wells during the same
17 timeframe as the Proposed Action. Moreover, most or all of these wells are
18 expected to be developed in the San Joaquin Valley. AR69534, 69485, 69544-45.

19 Indeed, the regional air basin regulated by the local California Air District—
20 the San Joaquin Valley Air Pollution Control District—includes portions of four
21 counties covered by the Central Coast Final EIS (San Joaquin, Stanislaus, Merced,
22 and Fresno) and five counties covered by the Final SEIS (Fresno, Kern, Kings,
23 Madera, and Tulare). AR9017. The San Joaquin Valley is in extreme ozone
24 nonattainment status, and smog is very much a cumulative air pollution concern—
25 NO_x and ROG emissions are both ozone precursors which generate smog by
26 reacting in the atmosphere across the entire air basin. Despite these facts, BLM
27 failed to consider the cumulative NO_x and ROG related effects of these two major
28 planning efforts—both undertaken by BLM, and both of which involve approving

1 new hydraulic fracturing and other well development activities which would occur
2 during the same timeframe and in the same extreme-nonattainment air basin.

3 BLM’s response to comments on this issue suggests that the Final SEIS is
4 “additive” to the 2012 Final EIS analysis and that because of the “conservative
5 impact assumptions” used to analyze impacts in the Final SEIS, “actual maximum
6 potential impacts will most likely be much smaller.” AR622. BLM’s justification
7 misses the point. The 2012 Final EIS was prepared prior to the Central Coast oil
8 and gas planning effort, which was finalized in 2019. *See* AR69448. As such, the
9 2012 Final EIS could not have accounted for the air impacts associated with the
10 Central Coast planning effort. Only BLM’s Final SEIS, conducted alongside the
11 May 2019 Central Coast EIS, could have adequately examined the cumulative
12 impacts of these two planning efforts, but inexplicably, it did not.

13 The agency’s failure to consider the full extent of air pollution impacts from
14 its planning efforts—including emissions of toxic air contaminants and cumulative
15 impacts—is in violation of NEPA and the APA. *Robertson*, 490 U.S. at 349.

16 **C. BLM FAILED TO ADEQUATELY CONSIDER POTENTIAL WATER**
17 **CONTAMINATION AND LAND SUBSIDENCE.**

18 The Final SEIS failed to adequately consider the potential for local
19 groundwater and drinking water to be contaminated by oil and gas activities in the
20 Planning Area. First, BLM failed to consider the prevalent use of unlined ponds in
21 the Central Valley to store produced water, or that water in these ponds can contain
22 hazardous chemicals. With regard to impacts to groundwater from the management
23 and disposal of flowback fluids, the Final SEIS noted that produced water is stored
24 in “tanks or in lined impoundments” prior to disposal, reinjection, or recycling, but
25 summarily concluded that “[i]mpacts to groundwater from the completion of an
26 average of zero to four wells in any given year . . . would be negligible.” AR132-
27 33. Yet nowhere does BLM discuss data collected by the California State Water
28 Resources Control Board, which produces a report every six months on the

1 regulation of oil field produced water ponds within each region. AR9015, 9027-55.
2 According to the report dated January 31, 2019, the Central Valley region had 561
3 active ponds, 501 of which were permitted and 60 unpermitted. AR9028.
4 Moreover, most of the active ponds (530 of 561) were unlined. AR9028. The report
5 also identified an additional 532 inactive ponds (507 of which were unlined), and
6 noted that 161 ponds were under active enforcement actions. AR9028.

7 Furthermore, recent testing of these ponds, as required by the Central Valley
8 Regional Water Quality Control Board, has identified numerous hazardous
9 compounds that could pose a threat to groundwater for municipal and agricultural
10 uses. AR9015, 9056-141. Many of the communities in the Planning Area rely on
11 groundwater as their primary source of drinking water. AR9019-12. The CCST
12 expressed concern about the regular use of unlined pits for the disposal of produced
13 water, finding that such practices could “introduce contaminants into the food web
14 and expose human populations to known and potentially unknown toxic
15 substances.” AR16505. Compounds used in hydraulic fracturing fluids, including
16 “various aromatic hydrocarbons,” AR129, affect pulmonary, gastrointestinal, and
17 renal systems in humans, and a few polycyclic aromatic hydrocarbons are
18 considered carcinogens, AR267, 529. However, the Final SEIS failed to consider
19 the foreseeable groundwater and drinking water contamination associated with the
20 produced water from hydraulic fracturing.

21 BLM’s response to comments indicated that it will impermissibly defer the
22 consideration of these water contamination impacts to a site-specific analysis at the
23 leasing stage. AR629. Punting the analysis of foreseeable impacts to a later stage
24 violates NEPA’s mandate that agencies confront the full extent of environmental
25 impacts from a proposed action at the earliest reasonable time. *Robertson*, 490 U.S.
26 at 349; 40 C.F.R. § 1501.2(a); *see Kern* 284 F.3d at 1072. Water contamination
27 impacts are reasonably analyzed at the level of the Planning Area, rather than in
28 segmented analyses later on, because only analysis at this stage can capture the full

1 extent of impacts on hydrologic regions and water basins, whose boundaries are not
2 defined by oil and gas leases. In contrast, waiting until the leasing stage to consider
3 these impacts, when the scope of the action has shrunk, is a myopic approach that
4 would overlook or underestimate the extent of water contamination impacts, in
5 violation of NEPA. *See Kern* 284 F.3d at 1072.

6 In addition, the depletion of groundwater for use in hydraulic fracturing and
7 the extraction of oil and gas from the ground has potential to cause land
8 subsidence—the gradual caving in or sinking of land—which in turn can damage
9 water delivery infrastructure such as the California Aqueduct and other state water
10 project facilities located in the Planning Area. AR185, 284, 445. The extraction of
11 produced water, along with the extraction of oil and gas, lowers static confining
12 pressures in the oil producing strata, potentially causing the consolidation of the
13 formation materials and resulting in land subsidence. Surveys conducted by CDWR
14 have shown an already alarming increase of land subsidence and other topographic
15 changes in the Central Valley, which can cause significant and costly damage to the
16 structural integrity of state water infrastructure. AR445, 473, 476. Nearly three-
17 quarters of California’s 21 critically overdrafted basins are located within the
18 Planning Area, and increased oil and gas extraction in these basins would
19 foreseeably lead to land subsidence. AR51, 412, 473. Furthermore, the Planning
20 Area is characterized by highly variable precipitation, often occurring as a flash
21 flood. AR573. Alterations in topography could cause changes in flood patterns and
22 increased risk to life and property. None of these impacts are addressed in the Final
23 SEIS or BLM’s response to comments. BLM’s failure to consider them violates
24 NEPA and the APA. *Robertson*, 490 U.S. at 349.

25 **D. BLM FAILED TO CONSIDER INDUCED SEISMICITY.**

26 BLM failed to adequately consider the connection of the underground
27 disposal of hydraulic fracturing waste fluids, as well as hydraulic fracturing itself,
28 to increased seismic activity. Following public comments pointing out recent

1 science that hydraulic fracturing events are connected to hundreds of earthquakes in
2 the United States, AR9014, BLM in the Final SEIS acknowledged that “California
3 has a long history of induced seismicity,” including wastewater injection induced
4 seismicity and hydraulic fracturing induced seismicity. AR134. However, instead of
5 engaging in further analysis, BLM stated that “the expectation is there would be
6 negligible impacts related to hydraulic fracturing-induced earthquakes,” and that
7 because the probability of induced earthquakes during hydraulic fracturing depends
8 on site-specific conditions, this impact would be evaluated “in future site-specific
9 NEPA analysis as necessary” for future leasing. AR135, 628.

10 The Final SEIS also failed to adequately analyze induced seismicity
11 associated with wastewater disposal, ignoring relevant information before the
12 agency. Despite acknowledging “that wastewater disposal is responsible for the
13 majority of, and the most damaging, induced earthquakes associated with oil and
14 gas development,” AR135-36, BLM seems to conclude that wastewater disposal
15 would have negligible seismic impacts based on its observations that wastewater
16 volumes in California are less than those from hydraulic fracturing operations
17 elsewhere, and that there has been only one documented case of an earthquake
18 associated with hydraulic fracturing operations in California. AR40, 77, 135-36.
19 The Final SEIS failed to take into account a study highlighted by California’s
20 comments recommending further analysis of wastewater disposal impacts because
21 the state’s frequent natural earthquakes may be difficult to distinguish from those
22 caused by wastewater injection into the subsurface. AR9016, 16132-34. This is
23 especially warranted given California’s many active earthquake faults, and the fact
24 that more than 1,000 wastewater disposal wells are located within 1.5 miles of a
25 mapped active fault in central and southern California. AR9016, 16379-95. In
26 refusing to analyze how California’s seismic activities can be aggravated by
27 wastewater disposal, BLM failed to consider an important aspect of the problem, in
28 violation of NEPA and the APA. *State Farm*, 463 U.S. at 43.

1 Furthermore, BLM suggested in the response to comments that additional,
2 site-specific analysis may be conducted at a later stage, such as leasing or well
3 development, with regard to hydraulic fracturing's seismic impacts. AR628. As
4 previously discussed, waiting until a later stage to determine the environmental
5 impacts from an agency action is in violation of NEPA and undermines the statute's
6 intent. NEPA is intended as a tool for the agency to confront the full extent of
7 environmental impacts from a proposed action, and to make that information
8 available for public review. *Robertson*, 490 U.S. at 349. The site-specific analysis
9 BLM proposes would shrink the geographic scope of the environmental analysis
10 down to a fraction of its proper size, and ignores all the environmental
11 consequences that accumulate in a widespread application of hydraulic fracturing
12 throughout the Planning Area. This approach violates NEPA's mandate "that
13 important effects will not be overlooked or underestimated only to be discovered
14 after resources have been committed or the die otherwise cast," *id.*, and impacts be
15 analyzed as soon as meaningful consideration can be given, *Kern*, 284 F.3d at 1075.

16 By deferring this analysis to the leasing stage, BLM has chosen to overlook
17 the potential impacts of hydraulic fracturing induced seismicity as it begins to
18 determine the locations of new leases in the Planning Area. Having failed to do its
19 homework to obtain relevant information at this stage, BLM has limited its options
20 down the line to mitigate significant impacts by, for example, understanding which
21 areas are more susceptible to induced seismicity and choosing not to offer leases at
22 those locations.

23 BLM's arbitrary and capricious decision to defer analysis of seismic impacts
24 to a later stage is in violation of NEPA and the APA.

25 **E. BLM DISREGARDED OTHER TYPES OF WELL STIMULATION AND**
26 **HYDRAULIC FRACTURING ON EXISTING WELLS.**

27 It was also arbitrary and capricious for BLM to ignore the environmental
28 impacts of other types of well stimulation treatments and enhanced oil recovery

1 techniques in the Planning Area, given their likely utilization in the future. These
2 techniques include acidizing, water flooding, steam flooding, cyclic steam injection,
3 and a dual type that alternates between steam and water flooding. AR9016-17. In
4 the Central Coast Final EIS, for example, BLM assumed that “[w]ell stimulation
5 technologies (e.g., hydraulic fracturing, acid matrix stimulation, acid fracturing)
6 and enhanced oil recovery techniques (e.g., cyclic steam, steam flood, water flood)
7 may be used on any or all” wells drilled on federal mineral estate. AR69812. But
8 here, the Final SEIS contained no analysis of such issues.

9 In addition to limiting its analysis to “zero to four” hydraulic fracturing
10 events on new wells each year, BLM ignored the fact that hydraulic fracturing is
11 commonly used to extend the life of existing oil wells with declining production
12 and related infrastructure, resulting in additional significant impacts from the
13 continued production of fossil fuels in these areas. AR9017. As BLM itself stated in
14 the Final SEIS, “hydraulic fracturing usually occurs in oil fields on existing leases,
15 many of which have been continuously developed over the last 100 years.” AR50.
16 Yet nowhere does BLM consider the impacts of using hydraulic fracturing or other
17 well stimulation treatments on existing wells within the Planning Area.

18 BLM attempted to justify this omission by claiming that the Court’s decision
19 in *ForestWatch* required that it consider only the impacts of hydraulic fracturing on
20 new wells in the Planning Area. AR625. BLM’s position is misguided. NEPA’s
21 “hard look” requirement mandates that an agency consider the full scope of
22 activities encompassed by its Proposed Action. *See* 40 C.F.R. § 1508.25; *N. Alaska*
23 *Env’t Ctr.*, 457 F.3d at 975 (“hard look” requirement of NEPA includes
24 “considering all foreseeable direct and indirect impacts”). For the Proposed Action,
25 foreseeable impacts include not only those from hydraulic fracturing new wells, but
26 also hydraulic fracturing on existing leases as a technique to extend the life of the
27 well, and other types of well stimulation treatments that will foreseeably be used in
28 the Planning Area. BLM’s failure to analyze impacts from these techniques is

1 arbitrary and capricious, in violation of NEPA and the APA.

2 **F. BLM FAILED TO ADEQUATELY CONSIDER IMPACTS TO LOW-**
3 **INCOME AND MINORITY COMMUNITIES.**

4 The Final SEIS also failed to consider how the Proposed Action will impact
5 low-income communities and communities of color in the Planning Area, whether
6 resulting from increased air pollution or groundwater contamination. While the
7 2012 Final EIS noted that the Planning Area contains minority populations and
8 low-income populations, AR2391, BLM—egregiously—failed altogether to
9 acknowledge impacts to these communities in the Final SEIS despite the
10 environmental harms these communities already disproportionately bear, due in
11 part to existing nearby oil and gas extraction.

12 Federal agencies are obligated to consider the environmental and human
13 health impacts of their actions on low-income communities and communities of
14 color in their NEPA analyses. Executive Order 12898, 59 Fed. Reg. 7,629 (Feb. 16,
15 1994). In addition, NEPA requires that both the context and the intensity of an
16 action be considered to evaluate whether the impacts are significant. 40 C.F.R.
17 § 1508.27. An evaluation of the action’s context requires an examination of “the
18 affected region, the affected interests, and the locality,” *id.* § 1508.27(a), and an
19 evaluation of intensity requires consideration of “[t]he degree to which the possible
20 effects on the human environment . . . involve unique . . . risks,” *id.* Furthermore,
21 NEPA requires an analysis of the cumulative effects of a federal action, or the
22 incremental environmental impact of the current action when added with other past,
23 present, and reasonably foreseeable future actions, “regardless of what agency . . .
24 or person undertakes such other action.” *Id.* § 1508.7. To properly evaluate the
25 significance of the direct and cumulative impacts caused by the Proposed Action,
26 BLM must therefore consider the Proposed Action in the context of current baseline
27 conditions of the communities and environment in the Planning Area.

28 However, the Final SEIS failed to account for the affected interests and

1 locality of the Proposed Action and the unique risks faced by communities in the
2 Planning Area. In Kern County alone—where hydraulic fracturing from this
3 Proposed Action will most likely occur—35 percent of the residents (290,000) live
4 within a mile of at least one oil or gas well. AR9021. The impacts of these oil and
5 gas operations are disproportionately being endured by people of color. Of the
6 residents living within one mile of a well *and* suffering from existing health threats
7 from pollution, 76 percent (nearly 92,000) are people of color, AR9079-80, while
8 communities that are less impacted by pollution and not near oil and gas wells are
9 majority white, AR9480. The majority of residents living within five miles of a
10 well experience greater ozone pollution than 80 percent of the state, and greater
11 particulate matter pollution than 90 percent of the state. AR9060-62. Furthermore,
12 the majority of residents living within two miles of a well experience greater levels
13 of drinking water contamination than 80 percent of the state. AR9164.

14 Studies increasingly show links between exposure to oil and gas operations
15 and public health impacts, including cancer, adverse birth outcomes, and preterm
16 births. AR9021-22. Residents living near oil and gas operations can experience
17 acute respiratory, neurological, and gastrointestinal symptoms from exposure to
18 such operations, such as headaches, fatigue, burning eyes and throats, nausea, and
19 nosebleeds, as well as sleep disturbance from noise levels. AR9022. The evidence
20 of these health effects is particularly concerning in the Planning Area, where many
21 residents already experience the highest rates of cardiovascular disease and low
22 birth weights in the state, in addition to the existing significant levels of air and
23 water pollution. AR9022-23. Exposure to ozone emissions from oil and gas
24 operations can cause lung irritation, worsen chronic health conditions, increase
25 asthma-related emergency room visits, and increase mortality. AR9019. These
26 operations also generate particulate matter that is 2.5 micrometers or less in
27 diameter, which can cause heart and lung disease. AR9019. Furthermore, many
28 residents within the Planning Area live at or below the state poverty line, and

1 therefore are among the least likely to afford medical care if they fall ill. AR9023.

2 Despite the conditions endured by these vulnerable communities in the
3 Planning Area, BLM’s response to comments failed even to mention these
4 communities, and offered only inapposite stock responses. AR1404-05; *see* Env’t
5 Pls. Br. at 18-21. The failure of the Final SEIS to take into account the air, water,
6 and public health impacts, including the cumulative impacts, of the Proposed
7 Action to nearby low-income communities and communities of color, violates
8 NEPA and the APA.

9 **II. BLM FAILED TO CONSIDER REASONABLE ALTERNATIVES.**

10 The Final EIS failed to consider a reasonable range of alternatives to the
11 Proposed Action. NEPA requires that an agency provide a “detailed statement”
12 regarding the “alternatives to the proposed action.” 42 U.S.C. § 4332(2)(C)(iii); *see*
13 40 C.F.R. § 1502.14(a). Agencies should “[r]igorously explore and objectively
14 evaluate all reasonable alternatives” that relate to the purposes of the project, and
15 briefly discuss the reasons for eliminating any alternatives from detailed study. 40
16 C.F.R. § 1502.14. The requirement to consider reasonable alternatives “lies at the
17 heart of any NEPA analysis.” *California ex rel. Lockyer v. U.S. Dep’t of Agric.*, 459
18 F. Supp. 2d 874, 905 (N.D. Cal. 2006). “The existence of a viable but unexamined
19 alternative renders” an EIS inadequate. *W. Watersheds Project v. Abbey*, 719 F.3d
20 1035, 1050 (9th Cir. 2013).

21 In the Final SEIS, BLM “brings forward” the same alternatives that it
22 previously considered in the 2012 Final EIS, claiming that the district court “upheld
23 the range of alternatives” in that document. AR56. These alternatives include “No
24 Action” (Alternative A), the Proposed Action to open 1,011,470 acres to fluid
25 mineral leasing (Alternative B), as well as 3 additional alternatives (Alternatives C-
26 E) that are similar to the Proposed Action but differ slightly in terms of their
27 emphasis on conservation, livestock grazing, or the production of natural resources.
28 AR56-77. However, given that the purpose of the Final SEIS was to analyze the

1 environmental impacts of hydraulic fracturing, AR45, BLM must consider
2 additional alternatives that relate to this purpose and which could potentially reduce
3 the significant impacts of such operations. *See* 40 C.F.R. § 1500.2(e) (requiring
4 agencies to “[u]se the NEPA process to identify and assess the reasonable
5 alternatives to proposed actions that will avoid or minimize adverse effects of these
6 actions upon the quality of the human environment”); *id.* § 1502.14 (“[A]gencies
7 shall . . . [r]igorously explore and objectively evaluate all reasonable alternatives.”).

8 Public comments on the Draft SEIS recommended additional reasonable
9 alternatives to mitigate or reduce the impacts of hydraulic fracturing, including:
10 (1) closing more public lands to mineral leasing; (2) placing ecologically sensitive
11 areas off limits to hydraulic fracturing; (3) prohibiting leasing in areas with low or
12 no potential for oil and gas development—an alternative that BLM itself evaluated
13 in its 2019 Final EIS for the Central Coast Oil and Gas RMP amendment, *see*
14 AR69508-09; (4) limiting oil and gas development near communities; and (5)
15 limiting the number of hydraulic fracturing operations in a given year. AR9013-17.

16 The Final SEIS rejected the alternatives recommended by the public and
17 failed to give consideration to a reasonable range of alternatives. As justification for
18 “bringing forward” only the alternatives from the 2012 Final EIS, BLM’s response
19 to comments offered only that the “District Court . . . upheld the range of
20 alternatives analyzed in the 2012 Final EIS.” AR1399. BLM’s reliance on the same
21 alternatives that were included in the 2012 Final EIS based on the Court’s decision
22 in *ForestWatch* misses the mark. The Court found that BLM had provided a
23 reasonable justification for excluding “an alternative that would have closed
24 substantially more lands” to oil and gas leasing, given that “nearly all anticipated
25 development is expected to occur on existing leases,” and BLM had “properly
26 considered the mix of tools available in its arsenal to balance the completing
27 priorities of developing federal lands and protecting the environment.”

28 *ForestWatch*, 2016 WL 5172009 at *14.

1 However, as the Court also stated, “[c]onsideration of reasonable alternatives
 2 is necessary to ensure that the Bureau has before it and takes into account all
 3 possible approaches to, and potential environmental impacts of, a particular
 4 project.” *Id.* at *13-14 (finding BLM is “obligated to examine reasonable
 5 alternatives to mitigate or reduce the overall *environmental impact* and not
 6 specifically the overall oil and gas activity on federal lands”) (emphasis in original).
 7 Given that Court found that BLM must conduct this SEIS to take a “hard look” at
 8 the environmental impacts of hydraulic fracturing, BLM cannot simply “bring[]
 9 forward” the same alternatives from a prior, defective review that entirely failed to
 10 consider such operations.

11 In sum, BLM’s failure to consider alternatives that are actually related to the
 12 environmental consequences of hydraulic fracturing did not allow for “informed
 13 decisionmaking and informed public participation,” and failed to “consider the
 14 relevant factors,” in violation of NEPA and the APA. *See California v. Block*, 690
 15 F.2d 753, 767 (9th Cir. 1982); *State Farm*, 463 U.S. at 43.

16 **III. BLM FAILED TO IDENTIFY OR DISCUSS ADEQUATE MITIGATION**
 17 **MEASURES REGARDING IMPACTS TO SPECIAL-STATUS SPECIES AND**
 18 **THEIR HABITATS.**

19 NEPA requires that an agency identify feasible mitigation measures for any
 20 adverse environmental impacts resulting from a proposed action and its alternatives.
 21 *Robertson*, 490 U.S. at 351-52 (“[O]ne important ingredient of an EIS is the
 22 discussion of steps that can be taken to mitigate adverse environmental
 23 consequences.”); *see* 40 C.F.R. §§ 1502.14(f) (requiring alternatives section of EIS
 24 to “[i]nclude appropriate mitigation measures not already included in the proposed
 25 action”); 1502.16(h) (requiring environmental consequences section of EIS to
 26 include “[m]eans to mitigate adverse environmental impacts (if not fully covered
 27 under § 1502.14(f)).⁶ Mitigation of environmental impacts must “be discussed in
 28 sufficient detail to ensure that environmental consequences have been fairly

⁶ Mitigation includes avoiding, minimizing, rectifying, reducing over time, or compensating for an impact. 40 C.F.R. § 1508.20 (defining “mitigation”).

1 evaluated.” *City of Carmel-By-The-Sea v. U.S. Dep’t of Transp.*, 123 F.3d 1142,
2 1154 (9th Cir. 1997) (quoting *Robertson*, 490 U.S. at 353). Moreover, “[a]n
3 essential component of a reasonably complete mitigation discussion is an
4 assessment of whether the proposed mitigation measures can be effective.” *S. Fork*
5 *Band Council of W. Shoshone of Nev. v. U.S. Dep’t of the Interior*, 588 F.3d 718,
6 727 (9th Cir. 2009) (finding that EIS violated NEPA by failing to “assess the
7 effectiveness of the mitigation measures relating to groundwater”).

8 Here, BLM’s Proposed Action has the potential to adversely impact
9 numerous special-status species and the habitats that support these species.
10 AR14732; *see* AR112 (“Potential impacts to special status fish and wildlife species
11 may include direct mortality and reduction or extirpation of a population; habitat
12 loss or modification; habitat fragmentation or disturbance; and interference with
13 movement pattern”). However, the Final SEIS failed to adequately identify or
14 discuss feasible mitigation measures regarding these adverse impacts. Instead, the
15 Final SEIS simply referenced preexisting mitigation requirements in the 2014
16 RMP, current federal and state regulations, a Kern County Zoning Ordinance, and
17 measures that may be included in future project-specific analysis. *See* AR32-33, 74,
18 114, 115. In response to comments regarding the inadequacy of this discussion,
19 BLM simply noted that the 2014 RMP established mitigation measures “that could
20 be applied to areas identified as open to leasing,” and that mitigation may be
21 applied during project-specific analyses. AR586-608. This response is inadequate.

22 First, as CDFW noted in its comments, “the 2014 RMP does not include
23 mitigation measures, BMPs, or stipulations that are adequate to conserve, protect,
24 and manage” certain special status species and their habitats. AR14732, 14737. In
25 particular, the mitigation measures included in Appendix 3 of the 2014 RMP (and
26 Appendix L of the 2012 FEIS) are not specific enough to provide adequate
27 mitigation for special status species, only cover a small subset of protected species
28 in the Planning Area, and even allow for the take of species that are covered.

1 AR14733. For example, measures to minimize “take” (*i.e.*, harm) of protected
2 species like the Blunt-nose Leopard Lizard, San Joaquin Kit Fox, Giant Kangaroo
3 Rat, and San Joaquin Antelope Squirrel, would actually *allow for* the take of such
4 species. AR14737-41. Unauthorized “take” of species is prohibited by state and
5 federal law, and subject to criminal enforcement. *See* Cal. Fish & Game Code §§
6 2000, 2080, 12000(a), 12008, 12008.1; *see also* 16 U.S.C. §§ 1532(19), 1538(a).

7 Moreover, the Kern County Zoning Ordinance only applies to oil and gas
8 activities within Kern County (the Proposed Action covers seven other counties),
9 and only on lands over which Kern County has jurisdiction, specifically, non-
10 federal lands. AR14734. For these reasons, CDFW asked for the inclusion of
11 additional mitigation measures, including: state-recommended survey protocols to
12 avoid the taking of protected species; implementing no-disturbance buffers to
13 minimize ground disturbance; conducting habitat surveys in the Planning Area to
14 proactively protect suitable habitats; ensuring the restoration of normal water flow
15 immediately after disruptive activities to maintain the integrity of streams; and
16 habitat compensation to account for impacts to lands previously set aside for
17 protection. AR14737-53. None of these measures were added to the Final SEIS.

18 Furthermore, with regard to future site-specific analysis, NEPA does not allow
19 BLM to simply ignore consideration of mitigation measures now by listing steps
20 that might be taken in the future. *See S. Fork Band Council*, 588 F.3d at 727
21 (“[T]hat these individual harms are somewhat uncertain due to BLM’s limited
22 understanding of the hydrologic features of the area does not relieve BLM of the
23 responsibility under NEPA to discuss mitigation of reasonably likely impacts at the
24 outset.”); *Neighbors of Cuddy Mountain v. U.S. Forest Serv.*, 137 F.3d 1372, 1380
25 (9th Cir. 1998) (finding a “mere listing of mitigation measures” is not enough to
26 satisfy NEPA); *Nat’l Parks & Conservation Ass’n v. Babbitt*, 241 F.3d 722, 734
27 (9th Cir. 2001) (“A perfunctory description, or mere listing of mitigation measures,
28 without supporting analytical data, is insufficient to support a finding of no

1 significant impact.”) (internal quotations and citations omitted). As the Ninth
2 Circuit has frequently stated in NEPA cases, it is “not appropriate to defer
3 consideration” of impacts to a future date “when meaningful consideration can be
4 given now.” *See Kern*, 284 F.3d at 1075.

5 In sum, BLM’s failure to identify and discuss feasible mitigation measures in
6 the Final SEIS regarding sensitive species and their habitat was arbitrary and
7 capricious and contrary to the requirements of NEPA and the APA.

8 **IV. BLM FAILED TO CONSIDER CONFLICTS OR INCONSISTENCIES WITH**
9 **STATE POLICIES AND PLANS.**

10 When preparing an EIS, NEPA requires that an agency include a discussion
11 of “[p]ossible conflicts between the proposed action and the objectives of” state
12 plans and policies. 40 C.F.R. § 1502.16(c). An EIS must also “[d]iscuss any
13 inconsistency of a proposed action with any approved State or local plan and laws,”
14 and “[w]here any inconsistency exists, the [EIS] should describe the extent to which
15 the agency would reconcile its proposed action with the plan or law.” *Id.*
16 § 1506.2(d); *see, e.g., Quechan Tribe of Ft. Yuma Indian Rsrv. v. U.S. Dep’t of the*
17 *Interior*, 927 F. Supp. 2d 921, 946 (S.D. Cal. 2013) (finding BLM did not violate
18 NEPA where “numerous provisions” in EIS and record of decision examined the
19 project’s consistency with local laws and regulations, and California determined
20 there were no inconsistencies between the project and state or local laws).

21 Here, the Proposed Action will open up more than one million acres of the
22 Planning Area to new oil and gas leasing, and extend the life of existing leases
23 through the use of well stimulation treatments such as hydraulic fracturing. AR45-
24 48. According to the Final SEIS, the total direct and indirect greenhouse gas
25 emissions resulting from this activity (production and end use) are expected to be
26 221,119 MTCO₂e per year, AR101, a figure which likely underestimates the
27 emissions that will result from the Proposed Action. *See* AR9012-13, 12030-31.

28 Yet the Final SEIS failed to consider conflicts or inconsistencies with state

1 plans and policies, including efforts by California to reduce greenhouse gas
 2 emissions and fossil fuel consumption to mitigate the devastating consequences of
 3 global climate change. *See* AR8133 (“The Bureau’s proposal to open up new areas
 4 of the state to oil and gas production . . . is contrary to the course California has set
 5 to combat climate change and to meet its share of the goals outlined in the Paris
 6 Agreement.”), AR8135, 8144, 12019-21. As discussed in the Attorney General’s
 7 comment letter, these plan and policies include: (1) California’s statutory target of
 8 reducing greenhouse gas emissions by 40 percent below 1990 levels by 2030, Cal.
 9 Health & Safety Code § 38566; (2) CARB’s plan to reduce fossil fuel consumption
 10 by 45 percent by 2030 to meet this target; and (3) California’s policy to achieve
 11 carbon neutrality by 2045, Executive Order B-55-18. AR9023; *see also* AR12028
 12 (“Expanding the availability of over 1.2 million acres of public lands in the Central
 13 Valley for hydraulic fracturing is contrary to California’s efforts to combat climate
 14 change and will result in significant adverse impacts to California’s residents and
 15 the environment.”).

16 In the Final SEIS, BLM claimed—without any analysis—that these increased
 17 emissions “would not be likely to conflict with any applicable plan, policy, or
 18 regulation adopted for the purpose of reducing GHG emissions.” AR102. BLM
 19 stated that “California’s regulatory setting . . . provides oversight and management
 20 of GHGs directly emitted during development and production and indirectly
 21 emitted by end users of the petroleum products.” AR102 (citing Section 3.6.2,
 22 Regulatory Framework of the BLM Central Coast Field Office, Draft Resource
 23 Management Plan Amendment and Draft Environmental Impact Statement for Oil
 24 and Gas Leasing and Development). Yet the plans and policies discussed above
 25 were never addressed in the Final SEIS.⁷ In fact, BLM’s response to comment on
 26 this issue consisted entirely of the following statement: “Thank you for
 27 participating in the Draft Bakersfield Field Office Hydraulic Fracturing

⁷ While the Central Coast draft EIS from 2017 describes some of these policies, it provides no discussion or analysis regarding the consistency of this Proposed Action with such measures. *See* AR67962-64.

1 Supplemental Environmental Impact Statement (Draft SEIS) public comment
2 process.” AR622.

3 California has also enacted several statutes to protect the state’s most
4 vulnerable communities from air and water pollution, including Assembly Bill 617
5 and California Water Code § 106.3. AR9023-25. Assembly Bill 617 requires
6 CARB to establish a statewide strategy to reduce emissions of toxic air
7 contaminants and criteria pollutants in communities affected by a high cumulative
8 exposure burdens. Cal. Health & Safety Code § 44391.2. California Water Code §
9 106.3 declares the state policy that “every human being has the right to safe, clean,
10 affordable, and accessible water adequate for human consumption, cooking, and
11 sanitary purposes.” As discussed above, many of the marginalized communities
12 residing in the Planning Area are already suffering from some of the worst air
13 quality in the nation, and do not have access to clean, safe, and affordable water.
14 *See supra* Background Part II; Argument I.F. The increased oil and gas
15 development resulting from the Proposed Action is contrary to and inconsistent
16 with these requirements. However, other than to acknowledge California’s
17 comments, the Final SEIS failed to consider these requirements. *See* AR629.

18 Nor did BLM take into account the requirements of the California
19 Sustainable Groundwater Management Act, Cal. Water Code § 10720 *et seq.* *See*
20 AR12037, 8146. This is particularly crucial given the potentially significant
21 impacts to groundwater from contamination, overdraft, and land subsidence
22 resulting from the Proposed Action, as well as the fact that many communities in
23 the Planning Area are already dealing with significant water contamination and
24 overdraft issues. *See supra* Argument Part I.C; AR9019-21. Yet BLM’s response to
25 comments on this issue simply made vague references to “subsequent processes”
26 and “site-specific NEPA analysis” without providing any consideration of this
27 issue. *See* AR411, 535, 577.

28 Finally, BLM failed to consider inconsistencies with the Metropolitan

1 Bakersfield Habitat Conservation Plan, which set aside many acres of CDFW lands
 2 within the Planning Area as permanent compensatory habitat mitigation to offset
 3 the impacts of past development activities. *See* Fish & G. Code § 2050 *et seq.*; 14
 4 Cal. Code Regs. §§ 550, 550.5, 630; AR14729. These lands, and specifically those
 5 within Kern County in the Lokern and Semitropic Ecological Reserves (14 Cal.
 6 Code Regs. § 630(b)(78), (124)), contain species that are critically imperiled and
 7 whose range does not extend much beyond the boundaries of the Southern San
 8 Joaquin Valley. AR14729. The Final SEIS did not discuss this plan.

9 In sum, BLM’s failure to consider the many conflicts and inconsistencies
 10 between the Proposed Action and state plans and policies was arbitrary and
 11 capricious and contrary to the requirements of NEPA and the APA.

12 **V. BLM FAILED TO ALLOW FOR ADEQUATE PUBLIC PARTICIPATION IN**
 13 **THE NEPA PROCESS.**

14 BLM’s regulations implementing FLPMA require that the agency provide a
 15 90-day public comment period for any draft EIS relating to a RMP. 43 C.F.R.
 16 § 1610.2(e) (“Ninety days shall be provided for review of the draft plan and draft
 17 environmental impact statement.”). BLM’s NEPA procedures also specifically
 18 require that a supplemental EIS be circulated for public comment in the same
 19 fashion as a draft EIS. AR67109 (BLM NEPA Handbook H-1790-1 at 102 (citing
 20 40 C.F.R. § 1502.9)). Moreover, “[t]he public shall be provided opportunities to
 21 meaningfully participate in and comment on the preparation” of such plans. 43
 22 C.F.R. §1610.2(a); *see* 40 C.F.R. § 1506.6 (requiring agencies to “[m]ake diligent
 23 efforts to involve the public in preparing and implementing their NEPA
 24 procedures”); *see* 43 U.S.C. § 1712(f) (requiring the Secretary of Interior to “allow
 25 an opportunity for public involvement and by regulation shall establish procedures
 26 . . . to give Federal, State, and local governments and the public, adequate notice
 27 and opportunity to comment upon and participate in the formulation of plans and
 28 programs relating to the management of the public lands”).

1 Here, BLM failed to provide the public with a meaningful opportunity to
2 participate in the preparation of the Final SEIS, in violation of these requirements.
3 First, BLM provided the public with just 45 days to comment on the Draft SEIS,
4 only half the time required by its own regulations. *See* AR28. In response to
5 comments, BLM stated that it “is not able to accommodate requests to extend the
6 public comment period on the Draft SEIS . . . [i]n order to complete the
7 supplemental analysis following the guidance of Secretarial Order 3355.” AR519.
8 Yet this Secretarial Order contains no such limitation on the public comment period
9 for a draft EIS, and providing 45 extra days for comments would not significantly
10 affect BLM’s ability to meet the Order’s “target” of completing each Final EIS
11 within one year from the issuance of a notice of intent (a target that BLM did not
12 meet regardless). *See* AR64631. In any event, the Order specifically provides that
13 “[t]o the extent there is any inconsistency between the provisions of this Order and
14 any Federal laws or regulations, the laws or regulations will control.” AR64633.

15 Second, although BLM held three public meetings relating to the Draft SEIS,
16 BLM failed to provide “at least 30 calendar days” for written responses, and
17 refused to accept oral comments into the record at those hearings. 43 C.F.R.
18 § 1610.2(e) (“At least 15 days’ public notice shall be given for public participation
19 activities where the public is invited to attend. Any notice requesting written
20 comments shall provide for at least 30 calendar days for response.”). In particular,
21 BLM published the notice of availability for the Draft SEIS on April 26, 2019, but
22 held its public meetings on May 21, 22 and 23, 2019. AR152-53. Moreover, despite
23 community requests for interpretation services and BLM’s knowledge of significant
24 Hispanic populations in the Planning Area, BLM did not provide interpretation
25 services at its hearings. *See* AR9025-26; AR20309 (Council on Environmental
26 Quality, Environmental Justice Guidance under the National Environmental Policy
27 Act, 1997, at 13) (agency should provide translators at meetings to ensure that
28 limited-English speakers affected by a proposed action have an understanding of

1 the proposal and its impacts). In response to comments, BLM simply stated that it
2 “was not able to accommodate specific needs and provide language interpreters for
3 all potential non-English speakers who may have attended the public meetings on
4 the Draft SEIS.” AR482. Yet BLM failed to explain why this step was not provided
5 to allow for meaningful public participation in the NEPA process. *See, e.g., W.*
6 *Watersheds Project v. Zinke*, 441 F. Supp. 3d 1042, 1083 (D. Idaho 2020) (finding
7 that BLM’s failure to follow notice and comment procedures “improperly
8 constrain[ed] public participation,” rendering action “procedurally and
9 substantively invalid under the APA, FLPMA, and NEPA.”).

10 Third, BLM failed to provide to the public the documents or data supporting
11 its core assumption that “zero to four wells” per year in the Planning Area will be
12 hydraulically fractured, thus precluding fully-informed public comment. AR12034-
13 35. The data and analysis behind this assumption was not provided, identified, or
14 explained in the Draft SEIS, and BLM never made public the reference cited for
15 this assumption. AR12035; *see supra* Argument Part I.A. Given that this
16 assumption is foundational to the rest of BLM’s analysis, the agency’s failure to
17 justify the assumption and to provide the underlying data precluded informed
18 comment on much of the Draft SEIS. 43 C.F.R. § 1610.2(a) (requiring that “[t]he
19 public shall be provided opportunities to *meaningfully* participate in and comment
20 on the preparation” of agency decision documents) (emphasis added).

21 In sum, BLM’s failure to provide a meaningful opportunity for public
22 participation in the NEPA process was arbitrary and capricious, an abuse of
23 discretion, and contrary to requirements of FLPMA, NEPA, and the APA.

24 CONCLUSION

25 For the foregoing reasons, California respectfully requests that the Court
26 grant their motion for summary judgment, and declare unlawful and vacate the
27 Final SEIS and Record of Decision until BLM complies with applicable law.

Dated: January 22, 2020

Respectfully submitted,

XAVIER BECERRA
Attorney General of California
DAVID A. ZONANA
Acting Senior Assistant Attorney General
CHRISTIE VOSBURG
Supervising Deputy Attorney General

/s/ George Torgun
GEORGE TORGUN
YUTING YVONNE CHI
Deputy Attorneys General

Attorneys for the State of California

1