

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
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20
21
22
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24
25
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The Honorable Richard A. Jones

**UNITED STATES DISTRICT COURT
WESTERN DISTRICT OF WASHINGTON
AT SEATTLE**

STATE OF WASHINGTON, et al.,

Plaintiffs,

v.

The UNITED STATES DEPARTMENT
OF THE NAVY, et al.,

Defendants.

NO. 2:19-cv-01059-RAJ-JRC

WASHINGTON'S COMBINED
RESPONSE TO FEDERAL
DEFENDANTS' MOTION FOR
SUMMARY JUDGMENT AND
REPLY IN SUPPORT OF
WASHINGTON'S MOTION FOR
SUMMARY JUDGMENT

TABLE OF CONTENTS

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

I. INTRODUCTION..... 1

II. ARGUMENT 2

 A. The Navy Failed to Take a “Hard Look” at Public Health and Bird Impacts,
 Violating NEPA..... 2

 1. The Navy Failed to Take a “Hard Look” at Public Health Impacts..... 2

 a. The Navy did not adequately analyze impacts to child learning 3

 b. The Navy did not adequately analyze non-auditory public health
 impacts 7

 c. The Navy did not adequately analyze non-auditory child health
 impacts 14

 d. The Navy’s failure to obtain information about public health impacts
 violates 40 C.F.R. § 1502.22 15

 2. The Navy Failed to Take a “Hard Look” at Bird Impacts 17

 a. The Navy did not analyze species-specific impacts to birds, despite
 recognizing that bird species respond differently to noise 18

 b. The Navy irrationally concluded that increased Growler flights will
 not significantly impact birds, despite record evidence to the
 contrary 24

 B. The Navy’s Section 106 Determination Failed to Rationally Explain its
 Mitigation Measures, Violating the NHPA and the APA..... 29

III. CONCLUSION 30

TABLE OF AUTHORITIES

Cases

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

All. for the Wild Rockies v. U.S. Forest Serv.,
907 F.3d 1105 (9th Cir. 2018) 31

AquAlliance v. U.S. Bureau of Reclamation,
287 F. Supp. 3d 969 (E.D. Cal. 2018) 21

California v. Bernhardt,
472 F. Supp. 3d 573 (N.D. Cal. 2020)..... 31

Ctr. for Biological Diversity v. Bernhardt,
982 F.3d 723 (9th Cir. 2020) 17, 29

Dep’t of Homeland Sec. v. Regents of the Univ. of Cal.,
140 S.Ct. 1891, 591 U.S. ___ (2020)..... 6

Dep’t of Transp. v. Public Citizen,
541 U.S. 752 (2004)..... 12

Earth Island Inst. v. U.S. Forest Serv.,
442 F.3d 1147 (9th Cir. 2006) 2

Ecology Cntr. v. Castaneda,
574 F.3d 652 (9th Cir. 2009) 21

Greater Yellowstone Coal. v. Servheen,
665 F.3d 1015 (9th Cir. 2011) 7

Hausrath v. U. S. Dep’t of the Air Force,
491 F. Supp. 3d 770 (D. Idaho 2020) 5

Idaho Wool Growers Ass’n v. Vilsack,
816 F.3d 1095 (9th Cir. 2016) 14, 15, 22

Lands Council v. Powell,
395 F.3d 1019 (9th Cir. 2005) 15, 22

Motor Vehicle Mfrs. Ass’n, Inc. v. State Farm Mut. Ins. Co.,
463 U.S. 29 (1983)..... 13, 29, 30

N. Plains Res. Council, Inc. v. Surface Transp. Bd.,
668 F.3d 1067 (9th Cir. 2011) 4, 5, 10, 13

Nat’l Audubon Soc’y v. Dep’t of Navy,
422 F.3d 174 (4th Cir. 2005) 5, 21-24

1 *Native Ecosystems Council v. U.S. Forest Serv.*,
 2 418 F.3d 953 (9th Cir. 2005) 13, 26, 29

3 *Native Ecosystems Council v. U.S. Forest Serv.*,
 4 428 F.3d 1233 (9th Cir. 2005) 8

5 *Native Vill. of Point Hope v. Jewell*,
 6 740 F.3d 489 (9th Cir. 2014) 8, 12, 27, 29

7 *Neighbors of Cuddy Mountain v. U.S. Forest Serv.*,
 8 137 F.3d 1372 (9th Cir. 1998) 30

9 *Ocean Mammal Inst. v. Gates*,
 10 546 F. Supp. 2d 960 (D. Haw. 2008)
 11 *injunction modified*, No. CV 07-00254 DAE-LEK, 2008 WL 11348364 (D. Haw.
 12 Mar. 19, 2008) *injunction modified in part*, No. CIV. 07-00254DAELEK, 2008 WL
 13 2020406 (D. Haw. May 9, 2008) 13

14 *Oregon Nat. Res. Council Fund v. Brong*,
 15 492 F.3d 1120 (9th Cir. 2007) 3, 12

16 *Pit River Tribe v. U.S. Forest Serv.*,
 17 469 F.3d 768 (9th Cir. 2006) 2

18 *Protect Our Cmty's Found. v. Jewell*,
 19 825 F.3d 571 (9th Cir. 2016) 5, 6

20 **Regulations**

21 40 C.F.R. § 1502.1 4, 21, 28

22 40 C.F.R. § 1502.22 3, 12, 15, 17

23 40 C.F.R. § 1502.24 4, 5, 14, 28

24 40 C.F.R. § 1508.7 12

25 43 Fed. Reg. 55,978 (Nov. 29, 1978) 3

26 51 Fed. Reg. 15,618 (Apr. 25, 1986) 3

70 Fed. Reg. 41,148 (July 18, 2005) 3

85 Fed. Reg. 43,304 (July 16, 2020) 3

I. INTRODUCTION

The Navy failed to comply with the National Environmental Policy Act (NEPA), the National Historic Preservation Act (NHPA), and the Administrative Procedures Act (APA) before authorizing a 33% increase in its Growler operations on Whidbey Island.

With respect to the NEPA, the Navy failed to conduct a reasoned analysis of the public health and wildlife impacts of its expanded Growler operations because it stopped short of connecting the logical dots between the findings of its literature review concerning noise impacts on child learning with its analysis of on-the-ground impacts, repeatedly drew conclusions that directly contradict the record evidence, and made unsupported assumptions that historical trends in academic performance and bird habituation would continue notwithstanding a substantial increase in Growler operations. With respect to the NHPA, the Navy failed to rationally explain its chosen mitigation measures, which are limited to just one landmark among the wider scale historic resources that the Navy recognized would be impacted by expanded Growler operations, and to interpretative historical signs and potential partnerships with federal programs that bear no connection to noise impacts. The Navy's unreasoned analyses of the impacts of its 33% increase in Growler operations and of the mitigation measures selected to protect Whidbey Island's historic resources from those impacts were arbitrary and capricious in violation of the NEPA, the NHPA, and the APA.

Contrary to the Navy's contentions, Washington does not seek to "use NEPA and NHPA to stop an action [it] disagree[s] with on policy grounds," Fed. Defs. Cross-Mot. Summ. J. and Opp'n 2, ECF No. 92 ("Fed. Defs. Cross-Mot."), but to require the Navy to follow the transparent and rational review process required by federal law. By arbitrarily reaching conclusions contrary to the record evidence, relying upon unfounded assumptions, and failing to draw logical connections, the Navy failed to meet these basic legal requirements.

1 Because the Navy violated the NEPA, the NHPA, and the APA, the Court should grant
2 Washington's motion for summary judgment, deny the Navy's cross motion for summary
3 judgment, vacate and set aside the Navy's Section 106 Determination of Effect and Record of
4 Decision (ROD) authorizing the Navy's expansion of its Growler operations, and remand this
5 matter to the Navy for further review in accordance with this Court's decision.

6 II. ARGUMENT

7 A. The Navy Failed to Take a "Hard Look" at Public Health and Bird Impacts, 8 Violating NEPA

9 The Navy fails to present a compelling defense of its Final Environmental Impact
10 Statement (Final EIS) and ROD. As Washington notes in its initial brief, Wash. Mot. Summ. J.
11 at 10–12, ECF No. 88 ("Wash. Mot."), NEPA requires agencies to take a "hard look" at the
12 potential environmental consequences of a proposed federal action and to "consider every
13 significant aspect of the environmental impact of a proposed action and inform the public that
14 it has indeed considered environmental concerns in its decisionmaking process." *Pit River
15 Tribe v. U.S. Forest Serv.*, 469 F.3d 768, 781 (9th Cir. 2006) (quoting *Earth Island Inst. v. U.S.
16 Forest Serv.*, 442 F.3d 1147, 1153–54 (9th Cir. 2006)); *see generally* Wash. Mot. 10–12. The
17 Navy failed to meet that standard here.

18 1. The Navy Failed to Take a "Hard Look" at Public Health Impacts

19 The Navy's response brief fails to legitimize the Navy's deficient analysis of public
20 health impacts. As Washington explains in its motion for summary judgment, the Navy's
21 analysis of public health impacts from its increased Growler operations violated NEPA's hard-
22 look mandate for three independent reasons: (a) the Navy did not adequately analyze impacts
23 to child learning and cognition; (b) the Navy relied on an unreasonably stringent standard to
24 review and dismiss non-auditory public health impacts; and (c) the Navy did not comply with
25 its obligation to either obtain unavailable information essential to its decision or explain why it
26

1 could not do so under 40 C.F.R. § 1502.22.¹ Wash. Mot. 12–22. The Navy’s efforts to defend
2 its analysis in the Final EIS fall short.

3 **a. The Navy did not adequately analyze impacts to child learning**

4 The Navy has not shown that it adequately analyzed impacts to child cognitive
5 development and learning from increased noise exposure and classroom interference. *See*
6 Wash. Mot. 12–14; Fed. Defs. Cross-Mot. 29–31.

7 The Navy makes much of its recognition that “the noise environment can impair
8 learning in schools and may contribute to poor academic performance of an individual
9 student.” Fed. Defs. Cross-Mot. 30. But that recognition alone does not constitute an adequate
10 analysis when the Navy failed to draw conclusions about the actual impacts to Whidbey Island
11 schoolchildren from increased noise exposure at area schools. *See Oregon Nat. Res. Council*
12 *Fund v. Brong*, 492 F.3d 1120, 1133–34 (9th Cir. 2007) (agency’s general recognition “that
13 fire suppression efforts increased erosion and sedimentation, [and] they might have increased
14 fish mortality, and that private logging has had an impact on fish, aquatic insects, and the
15 accumulation of woody debris” did not constitute a hard look where agency did not offer
16 quantified or detailed data about these effects); *see also id.* at 1134 (agency “may not rely on a
17 statement of uncertainty to avoid even attempting the requisite analysis”). According to the
18 Navy’s own noise modeling, certain area schools will experience significant increased noise
19 disruption of up to two additional noise events per hour—or up to sixteen additional noise
20 events per school day—under the Navy’s increased training exercises authorized by the ROD.
21 *See* GRR159195 (Final EIS); GRR167649 (ROD). The Navy’s review of the scientific
22

23 ¹ The Council on Environmental Quality (CEQ) revised its regulations implementing NEPA effective
24 September 14, 2020. Update to the Regulations Implementing the Procedural Provisions of the National
25 Environmental Policy Act, 85 Fed. Reg. 43,304 (July 16, 2020) (codified at 40 C.F.R. pt. 1500). CEQ’s prior
26 regulations, promulgated in 1978 with minor amendments in 1986 and 2005, govern Defendants’ Record of
Decision and Final EIS, and all regulatory references in this complaint are to those prior regulations.
Implementation of Procedural Provisions, 43 Fed. Reg. 55,978 (Nov. 29, 1978); Incomplete or Unavailable
Information, 51 Fed. Reg. 15,618 (Apr. 25, 1986); Other Requirements of NEPA, 70 Fed. Reg. 41,148 (July 18,
2005).

1 literature on noise impacts also recognized that “there is increasing awareness that chronic
2 exposure to high aircraft noise levels may impair learning.” GRR159322; GRR150336
3 (“Several studies suggest that aircraft noise can affect the academic performance of school
4 children.”); *see also* Wash. Mot. 13 (discussing studies). Yet, despite the record evidence
5 demonstrating that increased noise exposure adversely impacts childhood learning, the Navy
6 did not analyze how increased Growler noise may impair learning outcomes on Whidbey
7 Island. Without this missing piece of the puzzle—*i.e.*, any analysis on whether the noise
8 impacts on academic performance might be significant or whether there may be no effect at
9 all—the Navy cannot purport to have meaningfully considered the impacts of increased
10 Growler operations on child learning outcomes. In other words, by failing to tie the results of
11 its noise modeling study together with the findings of its literature review, the Navy failed to
12 consider an important aspect of the problem. *See N. Plains Res. Council, Inc. v. Surface*
13 *Transp. Bd.*, 668 F.3d 1067, 1075 (9th Cir. 2011) (an agency must rationally “explain the
14 conclusions it has drawn from its chosen methodology, and the reasons it considered the
15 underlying evidence to be reliable”) (quotation marks and citation omitted).

16 The Navy’s contention that it is entitled to deference so long as it “supports its
17 conclusions with studies that the agency deems reliable and explains the conclusions it has
18 drawn from its chosen methodology,” *see* Fed. Defs. Cross-Mot. 30 (citation and internal
19 quotation marks omitted), only highlights that the Navy’s analysis failed to draw *any*
20 conclusions on the impacts of increased Growler operations on child learning. What the State
21 seeks is not a “one-to-one analysis” as the Navy claims, *see* Fed. Defs. Cross-Mot. 31, but
22 simply some reasoned analysis of how increased Growler operations would affect learning
23 outcomes for area schools, consistent with the Navy’s obligations under NEPA. *See* 40 C.F.R.
24 § 1502.1 (requiring agency-prepared environmental impact statements to be “supported by
25 evidence that the agency has made the necessary environmental analyses”); 40 C.F.R.
26

1 § 1502.24 (obligating agencies to insure the “scientific integrity[] of the discussions and
2 analyses in environmental impact statements”). Quantifying the amount of the noise increase
3 on the one hand and recognizing that noise may impair learning on the other does not count as
4 reasoned analysis when the Navy did not analyze how the identified noise increase will impact
5 academic performance for area schoolchildren. *See N. Plains Res. Council, Inc.*, 668 F.3d at
6 1075; *Hausrath v. United States Dep’t of the Air Force*, 491 F. Supp. 3d 770, 792–94 (D.
7 Idaho 2020) (Air Force’s analysis of noise impacts on sleep and sleep disturbance was
8 inadequate when the Air Force did not “conduct any analysis of the project’s effects upon sleep
9 interference” and did not analyze the impact of multiple training operations on speech
10 interference).

11 The Navy relies on *Protect Our Communities Foundation v. Jewell*, 825 F.3d 571 (9th
12 Cir. 2016) for the proposition that it can satisfy NEPA simply by conducting a literature
13 review. *See Fed. Defs. Cross-Mot.* 31 (citing *id.* at 584). But a federal agency that fails to draw
14 reasoned conclusions applicable to the on-the-ground reality from its literature review will
15 nevertheless violate NEPA. *See* 825 F.3d at 584 (agency at issue had “properly canvassed the
16 available literature on electromagnetic fields” and “in a reasonable exercise of its technical
17 expertise” concluded that any field created by the agency action under consideration did not
18 present public health concerns); *see also Nat’l Audubon Soc’y v. Dep’t of Navy*, 422 F.3d 174,
19 193–94 (4th Cir. 2005) (“A hard look . . . entails more than citing the articles or abstracts that
20 contradict the conclusions reached.”). Here, the Navy’s literature review only carries it so far
21 when the Navy failed to perform the logical next step of analyzing how increased Growler
22 operations would actually affect learning outcomes on Whidbey Island. Without that
23 information, the Navy could not make the informed decision that NEPA requires. *See N. Plains*
24 *Res. Council, Inc.*, 668 F.3d at 1075 (by requiring agencies to take a “hard look,” NEPA
25 ensures that “agencies will have available, and will carefully consider, detailed information
26

1 concerning significant environmental impacts”). As a result, Navy’s failure to perform this
 2 necessary analysis cannot be said to be a “reasonable exercise” of the Navy’s “technical
 3 expertise,” and thus violates NEPA. *See Protect Our Cmty*, 825 F.3d at 584.

4 The Navy also cannot rely *on* post-hoc rationalizations to rescue its deficient NEPA
 5 analysis. The Navy contends for the first time its briefing that “[b]ecause a definitive causal
 6 study is not available [with respect to the relationship between child learning and noise], the
 7 Navy need not do more.” *See* Fed. Defs. Cross-Mot. 31. But in contrast with its analysis of
 8 non-auditory health impacts, *see infra* Part II.A.1.b, the Navy never stated in the Final EIS or
 9 the ROD that the relationship between child learning outcomes and noise were not sufficiently
 10 “definitive.” *See* GRR159320–22 (summary of literature review in Final EIS); GRR161324–25
 11 (Final EIS); GRR167649 (ROD). To the contrary, and despite the Navy’s best efforts to
 12 downplay these studies in its briefing before this court,² the Navy acknowledged in the Final
 13 EIS that scientific studies indicate that “chronic exposure to high aircraft noise levels may
 14 impair learning.” GRR159322. The Navy’s insistence that it “need not do more” to analyze
 15 noise impacts on child learning in the absence of a “definitive causal study,” *see* Fed. Defs.
 16 Cross-Mot. 31, is therefore a post hoc rationalization that should be rejected by this Court. *See*
 17 *Dep’t of Homeland Sec. v. Regents of the Univ. of Cal.*, 140 S.Ct. 1891, 1909–10, 591 U. S.
 18 ____ (2020) (explaining that post hoc rationalizations are impermissible because “[a]n agency
 19 must defend its actions based on the reasons it gave when it acted”).

20 Tellingly, the *only* assessment of academic performance the Navy cites in its briefing is
 21 an assessment of *historic* “Washington State and Local School District Average Test Scores
 22

23 ² For example, in its brief, the Navy understates the finding of the Road-Traffic and Aircraft Noise and
 24 Exposure and Children’s Cognition and Health study (RANCH study), contending that this study “merely
 25 concludes that noise above the 55 dB level *may* cause reading scores to fall below average.” Fed. Defs. Cross-
 26 Mot. 31 (citing GRR159321) (emphasis in the original). The record indicates otherwise. As the Department of
 Defense Noise Working Group explicitly recognized this study “showed a decrease in reading scores as the noise
 level increased, identifying ‘a linear exposure-effect association between exposure to aircraft noise and impaired
 reading comprehension and recognition memory in children.’” GRR42159 (DNWG 2009); GRR31608–18
 (RANCH).

1 and Graduation Rates” demonstrating that students in Anacortes, Coupeville, and Oak Harbor
 2 School Districts are “more academically successful than many of their peers across the State of
 3 Washington as a whole.” GRR160916 (cited in Fed. Defs. Cross-Mot. 30). But not only is
 4 purely backwards-looking data an irrational basis for an agency’s prediction of future trends,
 5 *see Greater Yellowstone Coal. v. Servheen*, 665 F.3d 1015, 1027 (9th Cir. 2011) (the Fish and
 6 Wildlife Service irrationally relied on prior data of grizzly bear population growth to conclude
 7 that such growth would occur during a decline of a major food source), the question of whether
 8 area students tend to perform better academically than their peers across the State of
 9 Washington as a whole is entirely irrelevant to the question of whether their performance
 10 would be affected by increased Growler operations on the island. The Navy does not—and
 11 cannot—cite any analysis in the Final EIS of how the academic performance of students in
 12 these districts would be affected by increased Growler operations because it conducted no such
 13 analysis.³

14 For all these reasons, the Navy’s failure *to* conduct a reasoned analysis of impacts to
 15 child learning violates NEPA.

16 **b. The Navy did not adequately analyze non-auditory public health**
 17 **impacts**

18 The Navy’s response also fails to justify its reliance on the irrational and unsupported
 19 requirement of a “definitive causal study” to assess and ultimately dismiss these impacts, or its
 20 conclusion that increased Growler operations would not adversely impact public health despite
 21 record evidence indicating otherwise. *See* Wash. Mot. 14–19; Fed. Defs. Cross-Mot. 31–33.

24 ³ Moreover, the Navy’s suggestion that Health’s comments “implied” that an HIA would address
 25 sufficiently the issue of cognitive impacts from noise, *see* Fed. Defs. Cross-Mot. 31, lacks merit when the Navy’s
 26 Appendix I suffers from the same backwards-looking flaw and thus does not satisfy the Navy’s obligation to
 connect the dots between the significant increase in noise exposure and the cognitive impacts to area
 schoolchildren. *See infra* Part II.A.1.d; *see also* Wash. Mot. 22.

1 Contrary to the Navy’s assertions, the State does not seek “supplemental noise metrics
 2 estimating the non-auditory health impacts of the affected population as to each alternative,” a
 3 “one-to-one comparison (dB increase to percentage risk of health effect),” or a specific “level
 4 of quantification” of the non-auditory public health impacts of the proposed action. *See* Fed.
 5 Defs. Cross-Mot. 32, 34. Rather, the State simply seeks a reasoned analysis of the scientific
 6 evidence consistent with the Navy’s obligations under NEPA. Because the Navy unjustifiably
 7 dismissed study findings linking noise to non-auditory health impacts based on the Navy’s
 8 conclusion that none of these studies “have shown a definitive causal and significant
 9 relationship between aircraft noise and health,” GRR159319—a standard that is unreasonably
 10 high and lacks rational basis—the Navy’s analysis was arbitrary and capricious in violation of
 11 NEPA’s hard look mandate. *See Native Vill. of Point Hope v. Jewell*, 740 F.3d 489, 502–05
 12 (9th Cir. 2014) (agency estimate of oil production was arbitrary and capricious where agency
 13 failed to justify the standard it selected as a basis for that estimate); *see also Native Ecosystems*
 14 *Council v. U.S. Forest Serv.*, 428 F.3d 1233, 1239 (9th Cir. 2005) (courts employ the APA’s
 15 arbitrary and capricious standard to determine whether agencies took a “hard look” under
 16 NEPA).

17 The Navy puts much emphasis on the uncontroversial fact that the Final EIS contains
 18 discussions of non-auditory health impacts of noise. *See* Fed. Defs. Cross-Mot. 32. What the
 19 Navy neglects to mention, however, is that each of these discussions concludes that “[n]o
 20 studies have shown a definitive causal and significant relationship between aircraft noise and
 21 health,” while failing to provide any rational basis for judging these studies against this
 22 unreasonably high standard. *See* GRR150339; *see also id.* (“The results of most cited studies
 23 are inconclusive, and it cannot be conclusively stated that a causal link exists between aircraft
 24 noise exposure and the various type of nonauditory health effects that were studied.”). Indeed,
 25 while it is superficially true that the Navy “provided a discussion [of non-auditory health
 26

1 impacts] with respect to each alternative,” *see* Fed. Defs. Cross-Mot. 32 (citing GRR150650;
2 GRR150695; GRR150738), each of those discussions merely copied and pasted the same
3 generic and unsupported summary language: that “research conducted to date has not made a
4 definitive connection between intermittent military aircraft noise and nonauditory health
5 effects,” and “[t]he results of most cited studies are inconclusive and cannot identify a causal
6 link between aircraft noise exposure and the various type of nonauditory health effects that
7 were studied.” GRR150650; GRR150695; GRR150738. The practical effect of this conclusion
8 is that while the Navy did discuss some non-auditory health impacts in the Final EIS, it did so
9 only to then decline to actually account for those non-auditory health impacts of noise in its
10 analysis of on-the-ground conditions on Whidbey Island caused by the Navy’s 33% increase in
11 Growler operations.

12 The Navy relies on its expanded literature review in response to comments from the
13 Environmental Protection Agency (EPA) and Washington State Department of Health,
14 Division of Environmental Public Health (Health) as evidence that it discussed non-auditory
15 health impacts in the Final EIS. *See* Fed. Defs. Cross-Mot. 31–33. But simply expanding the
16 scope of its literature review without adjusting its standard for evaluating the studies it
17 reviewed does nothing to address the underlying concern that the Navy irrationally dismissed
18 potential health impacts linked to noise based on an unjustified causal standard. *See* Wash.
19 Mot. 14–17. This is particularly true when the Navy’s reliance on this standard conflicts with
20 its own literature review, which acknowledge that “[r]esearch studies seem to indicate that
21 aircraft noise may contribute to the risk of health disorders,” GRR159319, and comments from
22 one of the scientists conducting the literature review acknowledged that aircraft noise can be
23 “hazardous if the intensity and frequency are sufficiently elevated.” GRR118248 (Dr. Rennix
24 email).

1 The Navy’s response also doubles down on its discussion in the Final EIS of the World
2 Health Organization’s 2000 Report and the Airport Cooperative Research Program 2008
3 (ARCP 2008) synopsis on “Effects of Aircraft Noise: Research Update on Selected Topics” to
4 support its stringent standard without acknowledging the contrary record evidence identified
5 by Washington in its initial brief. *See* Fed. Defs. Cross-Mot. 33 (citing GRR150246,
6 GRR160923); Wash. Mot. 16–18. But those studies are not a rational basis for the Navy’s
7 definitive causal standard when more recent studies cast significant doubt on the Navy’s
8 conclusion. In particular, the WHO’s 2000 report is undercut by the World Health
9 Organization’s 2011 report concluding that environmental noise is “a concern for public health
10 and environmental health,” GRR70191 (WHO 2011). And the ARCP 2008 synopsis does not
11 account for more recent studies in the record, including a 2013 study done in partnership with
12 the Federal Aviation Administration’s Center of Excellence, the Boston University School of
13 Public Health, and the Harvard School of Public Health that concluded that “aircraft noise,
14 particularly characterized by the 90th centile of noise exposure among census blocks within zip
15 codes, is statistically significantly associated with higher relative rate of hospitalization for
16 cardiovascular disease among older people residing near airports.” GRR63737; *see also*
17 GRR63743–44; GRR63737–42 (Correia et al., 2013: finding a “statistically significant
18 association between exposure to aircraft noise and risk of hospitalization for cardiovascular
19 diseases among older people living near airports”). The Navy’s reliance on stale data that
20 conflicts with more recent data in the record is arbitrary and capricious and violates NEPA. *See*
21 *N. Plains Res. Council, Inc.*, 668 F.3d at 1085–87 (agency reliance on ten-year old data was
22 arbitrary and capricious and violated NEPA’s hard look requirement).

23 Moreover, it is disingenuous for the Navy to claim that it “was responsive to comments
24 from the State throughout the NEPA process,” Fed. Defs. Cross-Mot. 31, as Health specifically
25 recommended that the Navy not require a “definitive causal and significant relationship”
26

1 between aircraft noise and health prior to including potential health outcomes in its model
 2 because it was an “unreasonably high [standard] and resulted in non-auditory health effects
 3 being excluded from the model.” GRR151313. Despite this criticism, the Navy failed to
 4 provide a rational justification for its reliance on this heightened standard. GRR150255–56;
 5 GRR150339–40. Merely expanding the scope of its literature review while still continuing to
 6 rely, without justification, on the requirement of a “definitive causal and significant
 7 relationship“ does not make the Navy’s reliance on this standard any more rational.

8 In addition, the Navy’s claim that it “*did* quantify other health impacts related to
 9 aircraft noise, such as potential hearing loss, residential night sleep disturbance, indoor speech
 10 interference, and recreational speech interference,” Fed. Defs. Cross-Mot. 32, only serves to
 11 undermine the Navy’s position that it need not perform any level of quantification in the
 12 absence of definitive findings in the scientific literature. With respect to potential hearing loss,
 13 for example, the Final EIS explained that “[t]he point at which a temporary threshold shift
 14 [hearing loss that is not necessarily permanent resulting from loud noise exposure over a given
 15 period of time (*e.g.*, from attending a concert)] results in a NIPTS [Noise Induced Permanent
 16 Threshold Shift (*i.e.*, permanent hearing loss resulting from repeated exposure to high noise
 17 levels)] is difficult to identify and varies with a person’s sensitivity to noise.” GRR150338.
 18 The Final EIS further explained that the standard it uses to assess this hearing loss threshold
 19 shift “is not intended to accurately describe the impact of intermittent noise events such as
 20 periodic aircraft overflights but is presented as a ‘worst-case’ analytical tool.” *Id.* Despite the
 21 Navy’s acknowledgment of the uncertainty in the science surrounding when temporary
 22 threshold shift results in hearing loss, and the imperfect fit of its tool for measuring potential
 23 hearing loss that may result from periodic Growler overflight noise, the Navy nevertheless
 24 relied on that tool to quantify estimated potential hearing loss under “worst-case”
 25 circumstances for each alternative. *E.g.*, GRR159094–95 (No Action Alternative analysis);
 26

1 GRR159185–87 (Alternative 2 analysis). It is arbitrary and capricious for the Navy to rely on
2 uncertainty to dismiss some health impacts while at the same time acknowledging and
3 quantifying other health impacts despite similar scientific uncertainty. *See Oregon Nat. Res.*
4 *Council Fund v. Brong*, 492 F.3d 1120, 1134 (9th Cir. 2007) (agency “can certainly explain
5 specific projections with reference to uncertainty; however, it may not rely on a statement of
6 uncertainty to avoid even attempting the requisite analysis”).

7 The Navy’s reliance on *Department of Transportation v. Public Citizen*, 541 U.S. 752
8 (2004) for the proposition that agencies are only required “to consider environmental impacts
9 that have a ‘reasonably close causal relationship’ to the proposed action, akin to ‘proximate
10 cause in tort law’” also lacks merit. Fed. Defs. Cross-Mot. 34 (quoting *Public Citizen*, 541 U.S.
11 at 767). *Public Citizen* addressed a situation where the Federal Motor Carrier Safety
12 Administration (FMCSA) was not required to consider the environmental impacts of increased
13 truck traffic from Mexico because only “the President, not FMCSA, could authorize (or not
14 authorize) cross-border operations from Mexican motor carriers” and thus “FMCSA has no
15 discretion to prevent the entry of Mexican trucks.” *Public Citizen*, 541 U.S. at 770.
16 Accordingly *Public Citizen* held only that “where an agency has no ability to prevent a certain
17 effect due to its limited statutory authority over the relevant actions, the agency cannot be
18 considered a legally relevant ‘cause’ of the effect.” *Id.* at 770. Here, the authority to increase or
19 not increase Growler operations on Whidbey Island rests with the Navy making it the “legally
20 relevant ‘cause’ of the effect.” *Id.*; GRR167640–65 (ROD). As a result, the Navy must
21 consider all “reasonably foreseeable significant adverse effects” of its exercise of that
22 authority. *Native Vill. of Point Hope*, 740 F.3d at 493 (citing 40 C.F.R. §§ 1502.22 and
23 1508.7). Moreover, the Navy effectively concedes that non-auditory health impacts of
24 increased Growler operations should be considered by discussing those impacts in its Final
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1 EIS. *See* Fed. Defs. Cross-Mot. 32 (“The FEIS contains a detailed discussion of non-auditory
2 health impacts.”).

3 *Public Citizen* is *thus* a distraction because it focuses on the wrong argument. The
4 question is not whether the Navy considered non-auditory health impacts at all but rather
5 whether the Navy arbitrarily and capriciously dismissed non-auditory health impacts based on
6 its application of an unsupported and unjustified standard (*i.e.*, the lack of definitive proof of a
7 causal relationship between noise and non-auditory health effects). As Washington has
8 demonstrated, Wash. Mot. 14–18, the Navy has not rationally justified its reliance on this
9 standard in violation of NEPA. *See Native Ecosystems Council v. U.S. Forest Serv.*, 418 F.3d
10 953, 964 (9th Cir. 2005) (“To take the required ‘hard look’ at a proposed project’s effects, an
11 agency may not rely on incorrect assumptions or data in an EIS.”); *cf. Ocean Mammal Inst. v.*
12 *Gates*, 546 F. Supp. 2d 960, 975 (D. Haw. 2008) (concluding at the preliminary injunction
13 stage that the Navy failed to articulate a rational connection between the vast majority of the
14 science and its adoption of a noise threshold for marine species), *injunction modified*, No. CV
15 07-00254 DAE-LEK, 2008 WL 11348364 (D. Haw. Mar. 19, 2008), *and injunction modified*
16 *in part*, No. CIV. 07-00254DAELEK, 2008 WL 2020406 (D. Haw. May 9, 2008).

17 In sum, because the *Navy* relied on an irrational and unsupported standard to assess
18 public health impacts, failed to rationally justify its conclusions, and reached conclusions that
19 conflict with the record, the Navy’s analysis of public health impacts is arbitrary and
20 capricious in violation of NEPA’s hard look mandate. *See Motor Vehicle Mfrs. Ass’n, Inc. v.*
21 *State Farm Mut. Ins. Co.*, 463 U.S. 29, 43 (1983) [hereinafter *State Farm*]; *N. Plains Res.*
22 *Council, Inc.*, 668 F.3d at 1075.

1 **c. The Navy did not adequately analyze non-auditory child health**
2 **impacts**

3 The Navy’s conclusion that “there is no proven positive correlation between noise-
4 related events and physiological changes in children,” GRR150753, fails for similar reasons. In
5 support of this conclusion, the Final EIS cited only the Department of Defense Noise Working
6 Group’s 2013 technical bulletin on “Noise-Induced Hearing Impairment,” GRR150753, which
7 focused on hearing impairment risks, not impacts to cognition or other physiological effects in
8 children. *See generally* GRR56292–303 (DNWG 2013). In other words, the Navy irrationally
9 relied upon a technical bulletin on the *auditory* impacts of noise to dismiss the *non-auditory*
10 health impacts to children that can be caused by noise. *See* Wash. Mot. 18–19.

11 Apparently conceding that the Department of Defense Noise Working Group’s 2013
12 technical bulletin on auditory health risks is not a rational basis for the Navy’s conclusion that
13 there is no proven correlation between noise and non-auditory health outcomes in children, the
14 Navy now suggests that its discussion in a different part of the Final EIS justifies its reliance
15 on its unreasonably high standard to dismiss physiological impacts on children. Fed. Defs.
16 Cross-Mot. 35 (quoting GRR150336). But that discussion hardly carries the weight placed on
17 it by the Navy when it first acknowledges that there “may be some relationship between noise”
18 and physiological effects and then cites the Department of Defense Noise Working Group’s
19 2013 technical bulletin for the proposition that further study is needed to differentiate that
20 cause and effect relationship. GRR150336. Moreover, the Final EIS’s vague reference to two
21 undefined German studies followed by a citation to an irrelevant study in a section titled
22 “Classroom/learning Interference,” GRR150336, does not satisfy the Navy’s obligation to
23 “insure the professional integrity, including scientific integrity, of the discussions and analyses
24 in an [EIS]” including by making “explicit reference . . . to the scientific and other sources
25 relied upon for conclusions in the statement.” 40 C.F.R. § 1502.24; *see also Idaho Wool*

1 *Growers Ass'n v. Vilsack*, 816 F.3d 1095, 1107 (9th Cir. 2016) (“NEPA requires that [EISs]
 2 contain high-quality information and accurate scientific analysis.”) (quoting *Lands Council v.*
 3 *Powell*, 395 F.3d 1019, 1031 (9th Cir. 2005)). The Navy therefore fails to rationally justify its
 4 conclusion that no link exists between noise and children’s physiological health.

5 **d. The Navy’s failure to obtain information about public health impacts**
 6 **violates 40 C.F.R. § 1502.22**

7 Section 1502.22 requires the Navy to either (1) include information that is essential to a
 8 reasoned choice among alternatives in the EIS, if the cost of obtaining that information is not
 9 exorbitant, or (2) if the information is not obtainable, include in the EIS a statement identifying
 10 the relevant unavailable or incomplete information, discussing the relevance of that
 11 information to potential environmental impacts, summarizing available credible scientific
 12 evidence, and describing the agency’s evaluation of those impacts based on generally accepted
 13 scientific approaches. 40 C.F.R. § 1502.22. The Navy violated 40 C.F.R. § 1502.22 by failing
 14 to obtain on-the-ground health and noise information despite the fact that this missing
 15 information was essential to a reasoned choice among alternatives and obtainable. *See* Wash.
 16 Mot. 19–22.

17 The Navy’s contention that the Final EIS contained an analysis that is equivalent to or
 18 over-inclusive of any analysis a Health Impact Assessment (HIA) would contain wholly fails
 19 to address this defect because even the purportedly HIA-equivalent portions of the Final EIS
 20 did not include on-the-ground information on the health impacts of the Navy’s Growler
 21 operations. Both Health and the EPA recommended that the Navy conduct a health impact
 22 study informed by on-the-ground monitoring due to concerns that the Navy’s analysis shed no
 23 light on the actual noise impacts on health that Whidbey Island residents may already be
 24 experiencing, or might expect to experience as a result of increased Growler operations. *See,*
 25 *e.g.*, GRR151252–54 (EPA comments stating that “on-the-ground validation would help
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1 provide an assessment of *actual noise impacts* projected to be experienced by Whidbey Island
 2 and surrounding area residents and wildlife due to the proposed expansion”) (emphasis added);
 3 GRR151315 (Health comments recommending that the Navy conduct an HIA and noting that
 4 the question of whether Whidbey Island residents are “actually experiencing” adverse health
 5 outcomes associated with noise in the current scientific literature “is a question beyond the
 6 scope of a literature review”). In response to this concern, the Navy repeatedly emphasizes that
 7 it conducted an extensive literature review, and consolidated the findings of its “Community
 8 Health and Learning Review” in a single user-friendly Appendix. *See* Fed. Defs. Cross-Mot.
 9 26–27. But both of these responses miss the mark: as Health noted, whether Whidbey Island
 10 residents are “*actually experiencing*” the adverse health effects that have been associated with
 11 noise in the current scientific literature “is a question beyond the scope of a literature review,”
 12 GRR151315 (emphasis in original), and the only on-the-ground data contained in the
 13 “Community Health and Learning Review” appendix consists of *historic* data on health and
 14 learning outcomes on Whidbey Island. *See* GRR160912–17. Without any data on the on-the-
 15 ground noise levels corresponding to those historic outcomes, or any other information that
 16 might otherwise inform the Navy’s understanding of potential noise impacts on health resulting
 17 from increased Growler operations, such historic data cannot be said to provide any insight
 18 into whether Whidbey Island residents are *actually experiencing* adverse health outcomes
 19 associated with noise.

20 The Navy contends that “even if the Navy were incorrect that the FEIS renders the HIA
 21 superfluous, the Navy appropriately recognized the scope of its analysis” by stating in response
 22 to Health’s comments that “[t]o the extent that the intent is not to perform an HIA but to
 23 conduct long-term, scientific research study on the impacts of aircraft noise and human health,
 24 such study is beyond the scope of this analysis.” Fed. Defs. Cross-Mot. 28 (quoting
 25 GRR161327). Under the Navy’s reasoning, which is without support, the Navy could avoid its
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1 NEPA obligations to obtain relevant information simply by narrowing scope of analysis—and
 2 indeed, that is what the Navy has done here by declining to consider on-the-ground health
 3 impacts on the basis that “such a study is beyond the scope of this analysis.” GRR161327. But
 4 simply stating that something is “beyond the scope of this analysis” does not satisfy the Navy’s
 5 obligations under Section 1502.22 to obtain additional information relevant to the agency’s
 6 consideration of alternatives or to rationally explain why obtaining such information is not
 7 possible. *See Ctr. for Biological Diversity v. Bernhardt*, 982 F.3d 723, 739–40 (9th Cir. 2020)
 8 (holding that the Department of the Interior violated § 1502.22 by failing to provide a
 9 qualitative estimate of downstream greenhouse gas emissions or to explain more specifically
 10 why it could not do so).

11 Ultimately, the Navy’s explanation for why it did not conduct on-the-ground
 12 monitoring or perform an HIA is based on the same flawed causal standard it relied on to
 13 dismiss non-auditory health impacts. *See Fed. Defs. Cross-Mot. 28* (quoting GRR161327–28).
 14 As explained above, the Navy’s failure to provide a rational basis for its reliance on the
 15 unsupported requirement of a definitive study proving a causal relationship between noise and
 16 non-auditory health impacts is arbitrary and capricious. *See supra* Part II.A.1.b.

17 For all these reasons—because the Navy did not adequately analyze impacts to child
 18 learning, non-auditory public health impacts, or physiological impacts on children, and because
 19 the Navy failed to obtain on-the-ground health and noise information in violation of 40 C.F.R.
 20 § 1502.22—the Navy’s analysis of public health impacts from its Growler operations is
 21 arbitrary and capricious and violates NEPA.

22 **2. The Navy Failed to Take a “Hard Look” at Bird Impacts**

23 The Navy’s response brief also fails to salvage its deficient analysis of bird impacts,
 24 which violated NEPA by relying on a general discussion of impacts to birds that ignored
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1 species-specific impacts and irrationally concluding that birds would not be adversely
2 impacted by Growler operations. *See* Wash. Mot. 22–29.

3 **a. The Navy did not analyze species-specific impacts to birds, despite**
4 **recognizing that bird species respond differently to noise**

5 The Navy fails to adequately explain why it did not conduct a species-specific analysis
6 of the impacts that increased Growler operations will have on birds despite explicitly
7 recognizing that bird response to aircraft noise varies by species. Fed. Defs. Cross-Mot. 36–40.
8 In particular, the Navy fails to justify why it did not consider how different noise exposure
9 levels will impact specific species differently, and offers no explanation for why it completely
10 ignored entire species, including tufted puffins, which breed within the action area and are a
11 state-listed endangered species. Fed. Defs. Cross-Mot. 36–40; *see* Wash. Mot. 23–25.

12 The Navy’s response is rather confused: First, the Navy suggests that it did in fact
13 conduct a species-specific analysis. *See* Fed. Defs. Cross-Mot. 36 (“Contrary to Washington’s
14 claim . . . the FEIS includes a thorough discussion of different species of birds affected by the
15 increase in Growler training operations.”). Then, the Navy argues that based on the data it
16 reviewed, “the Navy determined a species by species analysis was unnecessary.” Fed. Defs.
17 Cross-Mot. 37. As explained below, each of these responses lack record support and do
18 nothing to rebut the State’s argument that it was arbitrary and capricious for the Navy to
19 conclude that a species-specific analysis was unnecessary despite the ample record evidence
20 and the Navy’s own admission that different bird species respond differently to noise. Wash.
21 Mot. 23–24.

22 Taking the Navy’s second response first, to the extent that the Navy contends that its
23 species-specific analysis led it to conclude that inter-species variations in reactions to noise
24 were only “minor” and that a species-by species analysis was therefore unnecessary, Fed. Defs.
25 Cross-Mot. 37, that conclusion is not supported by the record. The Final EIS is rife with
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1 statements that bird responses to aircraft noise do in fact vary by species, with certain
2 responses varying “substantially”:

- 3 • “Despite their shared traits, waterfowl species can exhibit *great variability* in size,
4 appearance, habitat use, and *behavior*.” GRR150475 (emphasis added).
- 5 • “Bird responses to anthropogenic disturbances, including aircraft noise, *vary by species*
6 and may vary by situation.” GRR150911 (citations omitted) (emphasis added).
- 7 • “Studies of hearing loss (called ‘threshold shift’) in birds within their frequencies of
8 best hearing (between 2 and 4 kHz) due to long-duration (30 minutes to 72 hours),
9 continuous, non-impulsive, high-level sound exposures in air have shown that
10 susceptibility to hearing loss *varies substantially by species*, even in species with
11 similar auditory sensitivities, hearing ranges, and body size.” GRR150911–12 (citations
12 omitted) (emphasis added).
- 13 • “Because of *the observed variability of threshold shift susceptibility among bird species*
14 and the relatively long duration of sound exposure in Saunders and Dooling (1974)
15 [study in which young budgerigars were exposed to four levels of continuous 1/3-
16 octave band noise for 72 hours], the observed onset level cannot be assumed to
17 represent the SEL [sound exposure level] that would cause onset of temporary
18 threshold shift for other bird species or for shorter duration exposures”
19 GRR150912 (emphasis added).
- 20 • “Behavioral reactions to aircraft overflights are *dependent upon species* and activity at
21 the time of the stimulus. Generally, birds tend to begin to react (by lifting the head or
22 alerting to the stimulus) to aircraft overflights at 60 dBA to 65 dBA, with more intense
23 alert responses (e.g., flushing) occurring when noise levels exceed 75 dBA. However,
24 other birds have been observed to show no reaction or significant effect from
25 overflights with noise levels ranging from 52 to 101 dBA.” GRR150912 (citations
26 omitted) (emphasis added).
- “Airplane overflights less than 1,000 feet AGL [above ground level] (or mean sea level,
for seabirds) more frequently elicit behavioral responses, although *geese responded
more significantly* when aircraft flew between 1,000 feet AGL and 2,500 feet AGL.
However, *not all birds react to overflights*, as black-crowned night herons (*Nycticorax
nycticorax*) and great blue herons (*Ardea herodias*) in nesting colonies had ‘no apparent
reaction’ from aircraft at altitudes between 150 and 800 feet AGL, and sandhill cranes
(*Grus canadensis*) remained on their nests when exposed to helicopter flights as low as
130 feet.” GRR150912 (citations omitted) (emphasis added).
- “Habituation to repeated exposure to aircraft noise and visual disturbance has been
noted in numerous species, but *not all species exhibit the same pattern of habituation*,

1 and residual effects are possible. For example, 25 to 30 percent of captive American
 2 black ducks (*Anas rubripes*) initially responded to aircraft noise and visual
 3 disturbances, but they habituated to the disturbances with repeated exposure, whereas
 4 wood ducks (*Aix sponsa*) did not exhibit habituation to the same stimuli.” GRR150913
 (citations omitted) (emphasis added).

5 To the extent that the Navy claims that it did in fact in fact conduct a species-specific
 6 analysis, *see* Fed. Defs. Cross-Mot. 36, the Navy provides little record support for that
 7 assertion, and the Final EIS specifically states that the Navy opted not to conduct a species-
 8 specific analysis. *See* GRR161346 (stating in response to comments that the Navy would
 9 “present[] its impact conclusions for the species group as a whole, and not for individual
 10 species, with the exception of federally protected species”). While the Navy’s brief contains a
 11 string of citations in support of its statement that “the FEIS includes a thorough discussion of
 12 different species of birds affected by the increase in Growler training operations,” most of the
 13 material the Navy cites in support for its statement is not, in fact, in the Final EIS, but
 14 elsewhere in the record. *See* Fed. Defs. Cross-Mot. 36–37 (citing GRR85321 (study published
 15 by Society of Northwestern Vertebrate Biology); GRR34387 (study); GRR44287 (study);
 16 GRR92892 (study); GRR17857 (literature review summary authored by California Department
 17 of Fish and Game biologist); GRR75109–54 (eBird data); GRR57586 (interagency Marbled
 18 Murrelet Effectiveness Monitoring Forest Plan)). Indeed, the Navy’s brief cites in support of
 19 this assertion three reports prepared by Washington’s Department of Fish and Wildlife
 20 (WDFW) but not discussed in the Final EIS. *See* Fed. Defs. Cross-Mot. 36–37 (citing
 21 GRR75158 (January 2015 tufted puffin status report); GRR85280 (April 2015 research
 22 progress report on Washington at-sea marbled murrelet population monitoring); GRR31375
 23 (January 2005 monitoring report of multiple local marine bird and mammal species)). That
 24 these studies are in the record does little to show that the Navy considered how increased
 25 Growler operations would actually impact the specific species examined in these studies,
 26 particularly where the Final EIS does not cite or otherwise discuss them. The Navy’s failure to

1 identify a rational basis for not conducting a species-specific analysis despite its own
2 admission and record evidence that such analysis is necessary is arbitrary and capricious and
3 violates NEPA. *See Nat'l Audubon Soc'y v. Dep't of Navy*, 422 F.3d 174, 192–94 (4th Cir.
4 2005) (the Navy failed to take a “hard look” as required by NEPA where it did not conduct a
5 species-specific analysis despite record evidence and Navy’s explicit recognition that “wildlife
6 reaction to aircraft noise is species-specific”); *AquAlliance v. U.S. Bureau of Reclamation*, 287
7 F. Supp. 3d 969, 1032 (E.D. Cal. 2018) (agency failed to consider important aspect of problem
8 in violation of NEPA when it did not “address or otherwise explain” how information about
9 potential climate change impacts could be reconciled with the agency’s conclusion that those
10 impacts would not be significant).

11 Without record support for its position, the Navy turns to mischaracterizing the State’s
12 arguments. Contrary to the Navy’s assertion, the State does not contend that the Navy
13 “ignore[d] comments on the draft EIS, including from the State, disagreeing with the Navy’s
14 more generalized approach” to bird impacts or failed to respond to the State’s comments that
15 the Final EIS should specifically discuss impacts to the tufted puffin. Fed. Defs. Cross-Mot.
16 37–38. Rather, the State’s position is that it was arbitrary and capricious for the Navy to
17 conclude that no species-specific analysis was necessary despite ample record evidence that
18 different bird species respond differently to noise, including as demonstrated through
19 comments submitted by the State’s expert wildlife agency. Wash. Mot. 23–25. In other words,
20 the issue here is not whether the Navy needed to “respond to every single scientific study or
21 comment,” *see* Fed. Defs. Cross-Mot. 38 n.16 (quoting *Ecology Cntr. v. Castaneda*, 574 F.3d
22 652, 668 (9th Cir. 2009), but rather whether the Navy met its obligation under NEPA to
23 thoroughly review the environmental impacts of its actions, particularly where Washington’s
24 expert wildlife agency highlighted the need to assess those impacts. *See* 40 C.F.R. § 1502.1 (an
25 EIS “shall provide a full and fair discussion of significant environmental impacts” that is
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1 “supported by evidence that the agency has made the necessary environmental analyses”);
 2 *Idaho Wool Growers Ass’n v. Vilsack*, 816 F.3d 1095, 1107 (9th Cir. 2016) (“NEPA requires
 3 that [EISs] contain high-quality information and accurate scientific analysis”) (quoting *Lands*
 4 *Council v. Powell*, 395 F.3d 1019, 1031 (9th Cir. 2005)). Here, the Navy failed to meet this
 5 obligation by refusing to conduct a species-specific analysis of bird impacts. The Navy’s
 6 failure is particularly problematic for vulnerable species like certain shorebirds of conservation
 7 concern, including red knots, solitary sandpipers, and black oystercatchers, GRR150472, and
 8 the tufted puffin, which is a state-listed endangered species that breeds in the action area,
 9 GRR151276, and which the Final EIS fails to mention, GRR150906–26. In short, the Navy has
 10 not provided a compelling response to the State’s position.⁴

11 The Navy similarly distorts Washington’s argument with respect to *National Audubon*
 12 *Society v. Department of Navy*, 422 F.3d 174 (4th Cir. 2005). Contrary to the Navy’s argument,
 13 Fed. Defs. Cross-Mot. 38, *National Audubon Society* demonstrates that the Navy’s failure to
 14 consider species-specific impacts can constitute a NEPA violation where the Navy explicitly
 15 acknowledged that different bird species respond differently to aircraft noise, not that “fail[ure]
 16 to conduct a species-by-species analysis of noise effects is *per se* unreasonable.” Fed. Defs.
 17 Cross-Mot. 38. On the facts here, just as in *National Audubon Society*, the Navy’s failure to
 18 consider species-specific impacts is arbitrary and capricious when the Navy’s own analysis
 19 demonstrates that different species respond differently to aircraft noise.

20 In this case, as in *National Audubon Society*, the Navy failed to analyze how increased
 21 Growler operations would affect specific bird species, despite the Navy’s explicit recognition
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23 ⁴ It is particularly disingenuous for the Navy to cite in its brief three reports prepared by Washington’s
 24 Department of Fish and Wildlife, essentially recognizing the Department’s expertise in this area, while at the
 25 same time brushing aside its obligation to consider the comments submitted by the Department on the Draft EIS.
 26 *Compare* Fed. Defs. Cross-Mot. 36–37 (citing GRR75158 (January 2015 tufted puffin status report); GRR85280
 (April 2015 research progress report on Washington at-sea marbled murrelet population monitoring); GRR31375
 (January 2005 monitoring report of multiple local marine bird and mammal species)), *with* Fed. Defs. Cross-Mot.
 38 n.16.

1 in the Final EIS that different bird species respond differently to aircraft noise and ample
 2 record evidence. *See, e.g.*, GRR150912 (“Behavioral reactions to aircraft overflights are
 3 dependent upon species and activity at the time of stimulus.”); *see also National Audubon*
 4 *Society*, 422 F.3d at 193 (concluding that the Navy violated NEPA’s hard look mandate
 5 because it placed little weight on certain snow geese studies it reviewed and did not obtain
 6 sufficient species-specific data to counter the most relevant studies despite “consistently
 7 maintain[ing] that effects from aircraft activity are species-specific”). Just as it was not
 8 sufficient for the Navy to “simply describe all the snow geese studies in the FEIS and
 9 acknowledge their conclusions” in *National Audubon Society*, especially in light of the Navy’s
 10 “clear” position that “the effects of aircraft activity are species-specific,” *id.*, it is not sufficient
 11 here for the Navy to simply describe the studies it reviewed and acknowledge that some
 12 demonstrate that certain bird species may be uniquely affected by aircraft noise, while
 13 nevertheless drawing the contrary conclusion that “a species by species analysis was
 14 unnecessary,” Fed. Defs. Cross-Mot. at 37. *See also Nat’l Audubon Soc’y*, 422 F.3d at 193–94
 15 (“A hard look in this context . . . entails more than citing the articles or abstracts that contradict
 16 the conclusions reached. . . . An agency’s hard look should include neither researching in a
 17 cursory manner nor sweeping negative evidence under the rug.”).

18 The Navy’s attempts to distinguish *National Audubon Society* fail. First, the Navy’s
 19 argument that *National Audubon Society* concerned a new training location rather than an
 20 existing one is a red herring because the Navy’s ability to rely on historical data concerning
 21 bird strikes in this case (*i.e.*, the numbers and types of birds that have been struck at the Naval
 22 Air Station Whidbey Island complex) is irrelevant to the question of how increased Growler
 23 noise would affect different bird species. *See* Fed. Defs. Cross-Mot. 38. Second, the Fourth
 24 Circuit focused not only on the Navy’s recognition that “snow geese may be especially
 25 sensitive to aircraft activity” in *National Audubon Society*, 422 F.3d at 192–93, but also on the

1 Navy’s consistent position—similar to its explicit acknowledgements in this case—that “the
 2 effects of aircraft activity are species-specific.” *Id.* at 193. Third, the State’s position is not
 3 limited to “the Navy’s ostensible failure to consider tufted puffins separately,” *see* Fed. Defs.
 4 Cross-Mot. 39 (citation omitted), but rather to the Navy’s failure to consider species-specific
 5 impacts of any kind, tufted puffin or otherwise. Finally, it is not simply the proximity of the
 6 Navy’s Field Carrier Landing Practice (FCLP) operations at OLF Coupeville to the San Juan
 7 Islands National Wildlife Refuge that merits special attention, but the proximity of *all* of the
 8 Navy’s increased flight operations (not limited to FCLP training operations) to not only the
 9 Wildlife Refuge, which the Final EIS recognized would be adversely impacted, GRR161349
 10 (noting the increase in annual average noise exposure at Williamson Rocks and Bird Rocks
 11 within the Wildlife Refuge); *see also* GRR150476 (noting that the Wildlife Refuge was
 12 established to protect colonies of nesting seabirds); GRR151276, but also to several other
 13 important bird areas, which are essential habitats for breeding, wintering, and migrating,
 14 particularly for bird species that are protected by the Migratory Bird Treaty Act, GRR150473–
 15 75.

16 In light of the record evidence that bird responses to aircraft noise vary substantially by
 17 species, it was arbitrary and capricious for the Navy to determine that a species-by-species
 18 analysis was unnecessary. *National Audubon Society*, 422 F.3d at 193. As such, the Navy
 19 failed to take a hard look at bird impacts from increased Growler operations in violation of
 20 NEPA.

21 **b. The Navy irrationally concluded that increased Growler flights will**
 22 **not significantly impact birds, despite record evidence to the contrary**

23 The Navy’s response brief also fails to explain its irrational conclusion that increased
 24 Growler operations will not significantly impact birds. *See* Fed. Defs. Cross-Mot. 40–42. The
 25 Final EIS relied upon three flawed premises in reaching this conclusion: (1) birds that have
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1 habituated to the current level of aircraft operations will habituate to a 33% increase in those
 2 operations, *see* GRR150916; (2) the habituation of birds to aircraft operations necessarily
 3 indicates that birds do not suffer long-term impacts from those operations (*i.e.*, that aircraft
 4 disturbances “are not expected to affect critical behaviors,” GRR150916), despite record
 5 evidence showing long-term impacts exist even when birds do not outwardly react to noise;
 6 and (3) any negative impacts to birds resulting from a 33% increase in flights will be short-
 7 term and minimal based on the annual hours of noise exposure rather than the number of flight
 8 operations, *see* GRR150914–16, despite record evidence indicating that the frequency of noise
 9 disruptions may impact birds more significantly than the duration of those disruptions, *see*
 10 GRR30309. *See also* Wash. Mot. 25. Because there is no rational basis for any of these flawed
 11 premises in the record—a fact that the Navy’s response brief does not and cannot rebut—it was
 12 arbitrary and irrational for the Navy to conclude that increased Growler operations would not
 13 significantly impact birds despite record evidence to the contrary.

14 First, contrary to the Navy’s claims, *see* Fed. Defs. Cross-Mot. 40, its conclusion that
 15 “at least some degree of future habituation could be assumed [for bird species] even with
 16 increased noise,” (quoting GRR150913), is completely without support in—and instead
 17 contradicted by—the record evidence. While the Final EIS cited a number of studies that are at
 18 least two decades old for the proposition that habituation “has been noted in numerous
 19 species,” GRR150913 (citing Grubb, 1979; Smitt and Visser, 1993; Trimper and Thomas,
 20 2001; Delaney et al., 1999), those studies acknowledged obstacles to drawing broad
 21 conclusions about the specific species under examination, and drew no conclusions concerning
 22 bird species in general. *See, e.g.*, GRR6857 (Grubb, 1979: “[i]t is *difficult to draw any hard*
 23 *conclusions* from this study [on herons and egrets] as data available in the literature and data
 24 collected in this study were limited”) (emphasis added); GRR24664 (Delaney et al., 1999:
 25 “sample sizes [for spotted owl study] were *too small to establish significance* for indicated
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1 trends”) (emphasis added); GRR24668 (Delaney et al., 1999: certain identified trends were
2 “weaker evidence for habituation because the influence of seasonal factors, such as nesting
3 phase, cannot be differentiated”) (emphasis added). Moreover, the Navy’s briefing selectively
4 omits the clause in the Final EIS immediately following the Navy’s assertion that habituation
5 to aircraft noise has been noted in numerous species, *see* Fed. Defs. Cross-Mot. 40, which
6 explicitly states that “not all species exhibit the same pattern of habituation, and residual
7 effects are possible.” GRR150913 (citing two studies). The Navy’s acknowledgement that
8 habituation varies by species makes it particularly irrational for the Navy to conclude, based on
9 a handful of non-definitive studies concerning specific bird types such as spotted owls, herons,
10 and egrets, that for birds generally “at least some degree of future habituation could be
11 assumed even with increased noise.” Fed. Defs. Cross-Mot. 40 (quoting GRR150913). The
12 Navy’s assumption that bird species will generally habituate to increased Growler noise given
13 their past habituation therefore lacks any rational basis in the record. *See Native Ecosystems*
14 *Council v. U.S. Forest Serv.*, 418 F.3d 953, 964 (9th Cir. 2005) (“To take the required ‘hard
15 look’ at a proposed project’s effects, an agency may not rely on incorrect assumptions or data
16 in an EIS.”).

17 Second, the Navy fails to salvage its unsupported premise that limited long-term
18 impacts from noise can be assumed for bird species that do not overtly respond to noise, or
19 display only a short-lived response. *See* Wash. Mot. 26–28; Fed. Defs. Cross-Mot. 40–42. The
20 Navy’s response makes no attempt to address record evidence in support of the opposite
21 conclusion (*i.e.*, that bird species do suffer long-term impacts from noise notwithstanding
22 habituation or lack of observable response). In particular, the Navy does not justify its
23 conclusion that a lack of species response to stimuli or “habituation” represents a decreased
24 impact on species in light of studies demonstrating that: (1) conventional research approaches
25 focusing on overt behavioral responses from wildlife may overlook non-observable responses
26

1 to stimuli such as aircraft noise, GRR32994–3001 (Goudie, 2006), (2) a species’ ability to
 2 remain in an area despite human activity does not necessarily indicate that the species is
 3 unaffected, GRR39482–85 (Bedjer, 2009) and (3) even species that outwardly appear to
 4 habituate may suffer from decreased fitness, GRR56493 (Francis and Barber, 2013).

5 The Navy’s insistence “that there was insufficient evidence demonstrating long-term
 6 impacts from increased noise,” *see* Fed. Defs. Cross-Mot. 41–42, blatantly overlooks record
 7 evidence. Specifically, it ignores evidence that certain bird species show “reduced pairing
 8 success in noisy areas,” GRR56488, which is a long-term impact from increased noise, *see*
 9 GRR151275 (WDFW comments explaining that “[f]itness is defined as an organism’s ability
 10 to survive to reproductive age, find a mate, and produce offspring”), and that wildlife “may
 11 experience strong negative impacts” in ways that cannot be observed as direct responses to
 12 noise stimuli, such as “pairing success, number of offspring, physiological stress, or other
 13 measures of fitness,” despite otherwise displaying “little to no response to noise.” GRR56488
 14 (Francis and Barber, 2013). Moreover, the Navy’s claim of “insufficient evidence” is undercut
 15 by its own statements in the Final EIS that “[a]mple research has demonstrated that
 16 anthropogenic disturbances contribute to ecological effects on wildlife, such as reduced species
 17 richness, time budgets, space use and habitat selection, reproductive success, and predator-prey
 18 interactions, and greater nest abandonment in birds,” GRR150910, that some bird species may
 19 experience “residual” effects from noise stimuli, GRR150913, and that “acclimation or
 20 tolerance to disturbances might not release individuals from costs to their fitness,”
 21 GRR150910. In sum, the Navy has no rational basis for its decision not to consider long-term
 22 impacts to birds from its Growler operations where the record demonstrates that such impacts
 23 exist. *See Native Vill. of Point Hope v. Jewell*, 740 F.3d 489, 503–04 (9th Cir. 2014) (agency
 24 lacked rational basis to conclude that oil production would be limited to one oil field despite
 25 previous evaluations indicating that “multiple oil fields would develop” and agency’s
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1 acknowledgement of the same); *Nat'l Audubon Soc'y*, 422 F.3d at 193–94 (Navy failed to take
 2 a “hard look” as required by NEPA by failing to conduct species-specific analysis where
 3 studies in the record indicated that such analysis was necessary).

4 Apparently assuming that any discussion of “adverse impacts” automatically satisfies
 5 NEPA’s “hard look” requirement, the Navy highlights that it acknowledged in the Final EIS
 6 that: (1) “some additional sensory disturbance impacts” may result from increased Growler
 7 noise, Fed. Defs. Cross-Mot. 41 (quoting GRR150908), (2) behavioral responses to sensory
 8 disturbances can lead to energy loss, Fed. Defs. Cross-Mot. 41 (citing GRR150909), and (3)
 9 “all behavioral responses are accompanied by some form of physiological response,” Fed.
 10 Defs. Cross-Mot. 41 (quoting GRR150909). But merely acknowledging these impacts does not
 11 satisfy NEPA when the Navy then draws conclusions in the Final EIS that conflict with its own
 12 analysis. *See Nat'l Audubon Soc'y*, 422 F.3d at 193–94 (“A hard look . . . entails more than
 13 citing the articles or abstracts that contradict the conclusions reached.”); *see also* 40 C.F.R.
 14 § 1502.1 (an EIS should be “supported by evidence that the agency has made the necessary
 15 environmental analyses”); 40 C.F.R. § 1502.24 (agencies should insure the “scientific
 16 integrity[] of the discussions and analyses in environmental impact statements”).

17 Third, the Navy offers no compelling response to the State’s argument that the Navy
 18 lacked a rational basis to conclude that Growler operations will result in only minimal, short-
 19 term impacts on birds. *See Wash. Mot.* 28–29; Fed. Defs. Cross-Mot. 42. Focused on
 20 defending its use of the 92-decibel threshold, Fed. Defs. Cross-Mot. 42 (citing GRR150914),
 21 the Navy’s argument is wholly unresponsive to the State’s position: even if the Navy provided
 22 a rational basis for its 92-decibel threshold, it has not provided a rational basis for its decision
 23 to measure only the amount of time above this threshold and to not account for the frequency
 24 with which the threshold is broken, despite record evidence demonstrating that a considerable
 25 increase in the number of disturbances (rather than the overall duration of the disturbances) can
 26

1 negatively impact birds. *See, e.g.*, GRR30309 (Goudie and Jones, 2004: noting that a
 2 considerable increase in frequency of over-flights beyond the flights documented during the
 3 duration of the study could impact the ability of harlequin ducks to budget sufficient time for
 4 feeding). Because the Navy irrationally measured only the duration of disturbances and not
 5 their frequency in order to assess the impacts of its expanded Growler operations on birds, the
 6 Navy's conclusion that any negative impacts to birds resulting from increased Growler
 7 operations will be short-term and minimal lacks rational basis and is unlawful. *See Native Vill.*
 8 *of Point Hope*, 740 F.3d at 502–05 (agency estimate of oil production lacked rational basis
 9 where it was based on the lowest possible amount of oil that would be economical to produce,
 10 rather than the mean estimate of such amount, despite the latter being “by definition a more
 11 likely occurrence”).

12 In sum, the Navy's analysis of bird impacts lacks a rational basis and record support
 13 and thus violates NEPA. *See Ctr. for Biological Diversity*, 982 F.3d at 739 (“An agency acts
 14 arbitrarily and capriciously when it reaches a decision that is ‘so implausible that it could not
 15 be ascribed to a difference in view or the product of agency expertise.’”) (quoting *Motor*
 16 *Vehicle Mfrs. Ass’n, Inc. v. State Farm Mut. Ins. Co.*, 463 U.S. 29, 43 (1983)); *Native Vill. of*
 17 *Point Hope*, 740 F.3d at 502–05 (agency estimate of oil production was arbitrary and
 18 capricious where it relied upon assumptions that lacked rational basis); *Native Ecosystems*
 19 *Council*, 418 F.3d at 964 (“To take the required ‘hard look’ at a proposed project's effects, an
 20 agency may not rely on incorrect assumptions or data in an EIS.”).

21 **B. The Navy's Section 106 Determination Failed to Rationally Explain its Mitigation**
 22 **Measures, Violating the NHPA and the APA**

23 The Navy fails to present a compelling defense of its Section 106 determination, which
 24 was arbitrary and capricious because the Navy failed to provide a rational explanation for its
 25 chosen mitigation measures in violation of the NHPA and the APA. *See Wash. Mot.* 30–31.

1 Instead, the Navy nakedly asserts that it met the requirement of articulating a “rational
2 connection between the fact found and choices made,” *see* Fed. Defs. Cross-Mot. 56 (quoting
3 *State Farm*, 463 U.S. at 43), but does not articulate what that connection is.

4 The Navy’s response fails to offer any rational connection between the Navy’s narrow
5 choice to mitigate harms only at Ferry House, and the Navy’s noise impacts to historical
6 resources, which the Navy recognized extend beyond Ferry House in its adverse effects
7 finding. GRR138521. Nor does the Navy’s response explain how the interpretative historical
8 signs and the REPI program, which have no noise mitigation function, bear any rational
9 connection to the impacts from the Navy’s operations on Whidbey Island’s historic resources,
10 which are inherently caused by noise, as the Navy also recognized in its adverse effects
11 finding. *See* GRR138521 (noting intent to “minimize noise effects”). Simply listing these
12 mitigation measures as the Navy has done here, *see* GRR167574–78; GRR167659–61 (ROD),
13 without articulating their rational connection to the acknowledged adverse effects of the
14 Navy’s increased Growler operations, falls short of the reasoned discussion required by the
15 NHPA and the APA. *See Neighbors of Cuddy Mountain v. U.S. Forest Serv.*, 137 F.3d 1372,
16 1380 (9th Cir. 1998) (“A mere listing of mitigation measures is insufficient to qualify as the
17 reasoned discussion required by NEPA.”) (citation omitted). The Navy’s Section 106
18 determination is therefore unlawful.

19 III. CONCLUSION

20 For the reasons set forth above and for the reasons stated in the State’s opening brief,
21 this Court should grant the State’s motion for summary judgment, deny the Federal
22 Defendants’ cross-motion, and declare that Federal Defendants violated NEPA and the APA
23 by adopting and relying on a legally deficient EIS in issuing the challenged ROD, and violated
24 the NHPA and the APA by relying on a legally deficient Section 106 process in issuing the
25 challenged ROD. The ROD and Section 106 determination should be vacated and set aside,
26

1 and this matter should be remanded to the Navy to comply fully with NEPA, the NHPA, and
2 the APA. *All. for the Wild Rockies v. U.S. Forest Serv.*, 907 F.3d 1105, 1121 (9th Cir. 2018)
3 (“vacatur of an unlawful agency action normally accompanies a remand”); *California v.*
4 *Bernhardt*, 472 F. Supp. 3d 573, 630 (N.D. Cal. 2020) (“[v]acatur is the standard remedy under
5 the APA and NEPA if a court determines that an agency action is unlawful”).

6 Respectfully submitted this June 22, 2021.

7
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CERTIFICATE OF SERVICE

I hereby certify that on June 22, 2021, I served a copy of the foregoing on counsel of record electronically through the court's CM/ECF system.

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