

1 CHAD A. READLER  
Acting Assistant Attorney General  
2 MARY M. ENGLEHART  
3 Trial Attorney, Maryland Bar #0712110232  
Consumer Protection Branch  
4 United States Department of Justice  
450 Fifth St., N.W., Suite 6400 South  
5 Washington, D.C. 20530  
6 Tele: (202) 307-0088/Fax: (202) 514-8742  
[Megan.Englehart@usdoj.gov](mailto:Megan.Englehart@usdoj.gov)

7  
8 JEFFREY H. WOOD  
Acting Assistant Attorney General  
9 MARISSA A. PIROPATO  
Trial Attorney, Mass. Bar #651630  
10 United States Department of Justice  
Environment & Natural Resources Division  
11 Wildlife & Marine Resources Section  
12 Benjamin Franklin Station, P.O. Box 7611  
Washington, D.C. 20044-7611  
13 Tele: (202) 305-0470/Fax: (202) 305-0506  
[Marissa.pirocato@usdoj.gov](mailto:Marissa.pirocato@usdoj.gov)

14  
15 *Attorneys for Federal Defendants*

16 IN THE UNITED STATES DISTRICT COURT  
17 FOR THE NORTHERN DISTRICT OF CALIFORNIA  
18 SAN FRANCISCO DIVISION

19 INSTITUTE FOR FISHERIES  
RESOURCES, *et al.*,

20 Plaintiffs,

21 v.

22 ALEX M. AZAR II, *et al.*,

23 Defendants,

24 and

25 AQUABOUNTY TECHNOLOGIES, INC.,

26 Intervenor-Defendant,  
27  
28

Case No. 3:16-cv-01574-VC

**FEDERAL DEFENDANTS' MOTION  
FOR JUDGMENT ON THE PLEADINGS  
ON CLAIMS 1, 8, 12, AND 13**

Date: November 8, 2018  
Time: 1:30 p.m.  
Location: Courtroom 4 - 17th Floor  
Judge: Hon. Vince Chhabria



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28 FEDERAL DEFENDANTS’ MOTION FOR JUDGMENT ON THE  
 PLEADINGS ON CLAIMS 1, 8, 12, AND 13

1 The claims at issue turn on the U.S. Food and Drug Administration (“FDA”)’s authority to  
 2 regulate drugs intended to alter an animal’s genome to create a genetically engineered animal. In  
 3 November 2015, almost 20 years after Intervenor-Defendant AquaBounty Technologies, Inc.’s  
 4 (“AquaBounty”) corporate predecessor first approached FDA about its proposed new animal drug,  
 5 the agency approved AquaBounty’s application. That now-approved drug is an rDNA construct  
 6 as integrated in the genome of a line of Atlantic salmon, known as AquAdvantage Salmon, that is  
 7 intended to cause the fish to reach an important growth marker faster than their conventional  
 8 counterparts.<sup>1</sup> FDA has previously exercised its new animal drug approval authority over  
 9 integrated rDNA constructs intended to alter an animal’s genome,<sup>2</sup> but this was FDA’s first  
 10 approval of such a drug for an animal intended for use as food.<sup>3</sup> Federal Defendants now seek  
 11 judgment on the pleadings on four counts in the Amended Complaint that raise five threshold  
 12 issues related to this approval. Resolving these issues now and on the pleadings will simplify this  
 13 case for summary judgment.

14 *First*, Plaintiffs challenge FDA’s approval of this new animal drug on the ground that FDA  
 15 has no authority to regulate new animal drugs that create genetically engineered animals (Claim 1).  
 16 But the text of the Federal Food, Drug, and Cosmetic Act (“FDCA” or “Act”) plainly gives FDA  
 17

---

18 <sup>1</sup> Specifically, the new animal drug or “article” that FDA approved is “[a] single copy of the  
 19 [alpha]-form of the *opAFP-GHc2* recombinant deoxyribonucleic acid (rDNA) construct at the  
 20 [alpha]-locus in the EO-1 [alpha] lineage of triploid, hemizygous, all-female Atlantic salmon  
 (*Salmo salar*).” 21 C.F.R. § 528.1092(a).

21 <sup>2</sup> FDA’s first such approval was for a drug that intentionally alters the genome of an animal to  
 22 produce a biopharmaceutical product to treat a rare clotting disorder. In February 2009, FDA’s  
 23 Center for Veterinary Medicine approved an rDNA construct as integrated in the genome of a line  
 24 of lactating goats that directs the expression of recombinant human antithrombin (an  
 25 anticoagulant) in their milk. FDA’s Center for Biologics Evaluation and Research licensed the  
 26 resulting biologic for use in patients with hereditary antithrombin deficiency, who are at high risk  
 of blood clots during medical procedures. FDA also has approved an rDNA construct as integrated  
 in a line of genetically engineered chickens that produce a protein in their egg whites that is used  
 to treat a rare enzyme disorder in pediatric and adult patients.

27 <sup>3</sup> Plaintiffs do not challenge the food safety of AquAdvantage Salmon.



1 that authority. That Act defines “drugs” to include “articles (other than food) intended to affect  
 2 the structure or any function of the body of man or other animals,” 21 U.S.C. § 321(g)(1)—  
 3 language that easily encompasses the new animal drug at issue here, which alters the structure and  
 4 function of the genome in an animal.<sup>4</sup>

5 *Second*, Plaintiffs challenge FDA’s January 2009 issuance of a Guidance for Industry  
 6 (“Guidance”) (Claims 1, 8, 12, 13),<sup>5</sup> but the Guidance is not final agency action and so cannot be  
 7 challenged here. It is, rather, a guidance document that explains the FDCA’s new animal drug  
 8 provisions, describes FDA’s implementing regulations and how they apply to genetically  
 9 engineered animals, and recommends ways in which developers of genetically engineered animals  
 10 can satisfy these requirements. Review under the Administrative Procedure Act (“APA”) is  
 11 limited to “final agency action” and thus excludes challenges to this sort of agency guidance.

12 *Third*, Plaintiffs’ asserted harms arise solely from FDA’s approval of AquaBounty’s new  
 13 animal drug application—rather than the Guidance—such that Plaintiffs would not have standing

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14  
 15 <sup>4</sup> It is not clear what Plaintiffs hope to accomplish through a lawsuit that vigorously opposes FDA’s  
 16 approval of AquaBounty’s new animal drug and seeks to strip FDA of its jurisdiction not only to  
 17 require premarket approval of a construct that creates a genetically engineered food animal but,  
 18 indeed, of its authority to require premarket approval concerning all genetically engineered  
 19 animals until some unknown future date (that may never arrive) when Congress enacts a new  
 20 regulatory regime lodging authority in a different agency more to Plaintiffs’ liking. *See* Am.  
 21 Compl., ¶ 13 (requesting injunction against “[FDA’s] assertion of jurisdiction over GE animals”  
 22 and “further FDA action on AquaBounty’s GE salmon application or any other application for  
 23 commercialization of a genetically engineered food animal until Congress provides explicit  
 24 statutory authority governing regulation of such products and vests clear authority for such  
 25 regulation in a named agency of the Executive Branch of the United States”). If successful,  
 26 Plaintiffs’ claim would eliminate FDA premarket new animal drug approval as a requirement for  
 27 marketing AquaAdvantage Salmon, thus eliminating the “major federal action” that triggers  
 28 environmental review under the National Environmental Policy Act (“NEPA”) and making it  
 easier to bring that product to market without environmental or other review—the precise opposite  
 outcome from what Plaintiffs purport to seek.

<sup>5</sup> Guidance for Industry 187 Regulation of Genetically Engineered Animals Containing Heritable  
 Recombinant DNA Constructs. Ex. 1 at FDA-G187-00568. Cited documents are attached as  
 exhibits. The referenced Bates-numbers are the pages cited within each exhibit.

1 to challenge the Guidance even if it were somehow reviewable under the APA (Claims 1, 8, 12,  
2 13).

3 *Fourth*, to the extent Plaintiffs’ challenge relies on the argument that FDA must consider  
4 potential environmental impacts in evaluating the safety of a new animal drug under the FDCA,  
5 that claim also fails. The FDCA is the statutory apparatus for regulating the safety of food, drugs,  
6 devices, tobacco products, and cosmetics; it is not an environmental statute. Assessing  
7 environmental impacts is, rather, the domain of NEPA, and there is no basis to backdoor that  
8 environmental-regulatory apparatus into the approval process for new animal drugs (Claim 12).

9 *Finally*, Plaintiffs’ claim that FDA was required to engage in formal notice-and-comment  
10 rulemaking before it could issue the Guidance fails because, again, the Guidance is not a final  
11 agency action (Claim 13).

12 As demonstrated below, Federal Defendants are entitled to judgment on the pleadings on  
13 Claims 1, 8, 12, and 13.<sup>6</sup> Resolving this motion now will streamline the case going forward. If  
14 the Court grants the motion, it will leave for decision only Plaintiffs’ environmental challenges to  
15 FDA’s Environmental Assessment and Finding of No Significant Impact under NEPA (Claims 2-  
16 7); and FDA’s determination under the Endangered Species Act that its approval of AquaBounty’s  
17 new animal drug application would have “no effect” on endangered species or their habitat (Claim  
18 10).

19 **I. GOVERNING STATUTES AT ISSUE**

20 **A. The Federal Food, Drug, and Cosmetic Act (21 U.S.C. § 301, et seq.)**

21 The FDCA authorizes FDA to regulate drugs sold in interstate commerce. 21 U.S.C. § 331.  
22 As noted above, the term “drug” is defined to include “articles (other than food) intended to affect  
23 the structure or any function of the body of man or other animals.” *Id.* § 321(g). A “new animal  
24

25 \_\_\_\_\_  
26 <sup>6</sup> For purposes of this motion only, Federal Defendants accept as true all well-pleaded material  
27 factual allegations in the Amended Complaint. *See* Section III.A., *infra*.

1 drug” includes “any drug intended for use for animals other than man” that is not generally  
 2 recognized as safe and effective for the conditions prescribed, recommended, or suggested in the  
 3 labeling or that has not been used to a material extent or for a material time for such conditions.  
 4 *Id.* § 321(v). A new animal drug is “deemed unsafe” unless FDA has approved the drug for the  
 5 particular use at issue. *Id.* § 360b(a)(1). To obtain approval, a sponsor must demonstrate, *inter*  
 6 *alia*, that its new animal drug is safe and effective for its intended use. *Id.* § 360b(a)(1); *see* FDA-  
 7 G187-00578. FDA’s regulations implementing these statutory provisions are set forth at 21 C.F.R.  
 8 § 514, *et seq.*

9 **B. The FDA Modernization Act of 1997 (21 U.S.C. § 371(h)(1)(A))**

10 The FDA Modernization Act of 1997, which amended the FDCA, provides that FDA may  
 11 issue guidance documents “with public participation and [shall] ensure that information identifying  
 12 the existence of such documents and the documents themselves are made available to the public.”  
 13 21 U.S.C. § 371(h)(1)(A). Such documents, however, “shall not create or confer any rights for or  
 14 on any person, although they present the views of the Secretary on matters under the jurisdiction  
 15 of the [FDA].” *Id.*

16 **C. The National Environmental Policy Act (42 U.S.C. § 4221, *et seq.*)**

17 “NEPA is a procedural statute that does not ‘mandate particular results, but simply provides  
 18 the necessary process to ensure that federal agencies take a hard look at the environmental  
 19 consequences of their actions.’” *Sierra Club v. Bosworth*, 510 F.3d 1016, 1018 (9th Cir. 2007).  
 20 NEPA directs federal agencies to prepare a detailed Environmental Impact Statement for every  
 21 “major Federal action[] significantly affecting the quality of the human environment.” 42 U.S.C.  
 22 § 4332(C).

23 **D. The Administrative Procedure Act (5 U.S.C. § 551, *et seq.*)**

24 Plaintiffs’ claims for violations of the FDCA, the FDA Modernization Act, and NEPA are  
 25 brought under the APA. To sustain an action under the APA, two requirements must be met. First,  
 26 where a statute does not provide a private right of action (like the statutes here), the challenged  
 27

1 “agency action” must be “final agency action.” 5 U.S.C. § 704; *Northcoast Env'tl. Ctr. v.*  
2 *Glickman*, 136 F.3d 660, 668 (9th Cir. 1998). For claims under NEPA, this means that the  
3 challenged agency action must be both a major Federal action **and** final agency action. *Northcoast*  
4 *Env'tl*, 136 F.3d at 668; *Delta Smelt Consol. Cases v. Salazar*, 686 F. Supp. 2d 1026, 1033 (E.D.  
5 Cal. 2009). Second, the plaintiffs must establish that they have suffered a legal wrong, or will be  
6 adversely affected or aggrieved within the meaning of a relevant statute. *Id.*

7 **II. BACKGROUND, THE GUIDANCE, AND**  
8 **CLAIMS 1, 8, 12, AND 13**

9 **A. Case Study No. 1 Growth-Enhanced Salmon**

10 Since at least 2001, the FDA has publicly asserted its authority to regulate rDNA constructs  
11 that are intended to affect the structure or function of an animal under the new animal drug  
12 provisions of the FDCA. That year, the Council on Environmental Quality and the White House  
13 Office of Science and Technology Policy published a case study on growth-enhanced salmon  
14 authored by various federal agencies, including FDA, the National Marine Fisheries Service, and  
15 the Department of the Interior. Ex. 3 at FDA-2001CP-00012 n.12.<sup>7</sup> This case study, “one of a  
16 series of case studies aimed at elucidating the adequacy of federal environmental regulations  
17 pertaining to transgenic organisms,” addressed the potential aquaculture production of Atlantic  
18 salmon genetically engineered to contain an additional fish growth hormone gene intended to make  
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22 <sup>7</sup> The U.S. Fish and Wildlife Service, a bureau within the Department of the Interior, and the  
23 National Marine Fisheries Services, are responsible for protecting endangered species under the  
24 Endangered Species Act. Case Study No. 1 is an exhibit to a Citizen Petition submitted to FDA  
25 by Plaintiffs Center for Food Safety, Friends of the Earth, Institute for Fisheries Resources, Pacific  
26 Coast Federation of Fishermen’s Association, and others in May 2001. Because the Citizen  
27 Petition and FDA’s denial of that petition are referenced in paragraphs 79 and 82 of the Amended  
28 Complaint—and for the reasons discussed below in Section III.A—they may be considered by the  
Court without converting Federal Defendants’ motion for judgment on the pleadings into a motion  
for summary judgment. *See, e.g., Knievel v. ESPN*, 393 F.3d 1068, 1076 (9th Cir. 2005).

1 the Atlantic salmon grow faster and use feed more efficiently. *Id.* at 80.<sup>8</sup> As explained in the  
2 study, such

3 transgenic Atlantic salmon are subject to FDA oversight because they are  
4 considered to contain a “new animal drug.” The [FDCA] . . . defines a  
5 “drug” to include “articles . . . intended to affect the structure or any  
6 function of the body of man or other animals.” 21 U.S.C. § 321(g).  
7 Because an introduced genetic construct will of necessity “affect the  
8 structure or . . . function” of transgenic animals, the genetic construct is a  
9 “drug.”

10 Ex. 2 at FDA-2001CP-00091 (footnote omitted).<sup>9</sup> As further explained in the case study, “[a]ll  
11 subsequent generations of the salmon contain the inserted genetic construct . . . , and therefore all  
12 contain a new animal drug.” *Id.* at 92. The case study also noted that “[t]he best known example  
13 of such a transgenic Atlantic salmon under investigation is the AquaAdvantage variety being  
14 developed by Aqua Bounty.” *Id.* at 80.

15 **B. Plaintiffs’ 2001 Citizen Petition**

16 In May 2001, after Case Study No. 1 was published, several Plaintiffs in this case submitted  
17 a Citizen Petition acknowledging and embracing FDA’s authority to regulate articles that  
18 intentionally alter animals’ genomes under its new animal drug authority, but requesting that FDA  
19 impose a moratorium on the domestic marketing, importation, and exportation of transgenic fish  
20 “until the FDA establishes a comprehensive regulatory framework under the mandate of the  
21 [FDCA] to evaluate and fully address the human health and environmental impacts caused by the

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22 <sup>8</sup> The case study assumed that genetically engineered Atlantic salmon would—unlike the  
23 AquaAdvantage Salmon at issue here—be raised in ocean net pens in or near the Atlantic or Pacific  
24 coastal waters of the United States, Ex. 2 at FDA-2001CP-00079, and that escapes would occur,  
25 *id.* at 101.

26 <sup>9</sup> The Case Study defined transgenic fish as “fish that have been modified to contain copies of new  
27 genetic constructs introduced into their genome by modern genetic techniques (specifically,  
28 recombinant DNA techniques).” Ex. 2 at FDA-2001CP-00080.

1 commercialization of transgenic fish.” Ex. 3 at FDA-2001CP-00001 at 2, 14.<sup>10</sup> They further  
2 requested that this regulatory framework include adoption of regulations “addressing the safety  
3 and efficacy of transgenic fish by requiring all transgenic fish producers to complete a full review  
4 of transgenic fish *as a new animal drug* pursuant to the requirements of 21 U.S.C. § 360b and  
5 accompanying implementing regulations.” *Id.* at 2 (emphasis added).

6 The Citizen Petition specifically considered the impact of an approval on the environment  
7 under NEPA, but never suggested that the FDCA required its own environmental analysis.  
8 *Compare id.* at 14 (“FDA Is Required Under the [FDCA] To Review The Human Health Impacts  
9 From Consuming Transgenic Fish”) *with id.* at 22 (“FDA Is Required Under [NEPA] To Review  
10 The Impacts To Human Health And The Environment”). They argued that,

11 FDA must comply with NEPA before approving the commercialization of  
12 transgenic fish and allowing transgenic fish to be grown in ocean pens.  
13 FDA’s decision on whether or not to approve transgenic fish as an animal  
14 drug . . . is a major federal action that may significantly affect the  
15 environment. Therefore, before this decision is reached, FDA is required  
16 to fully and completely consider the human health and environmental  
17 impacts as part of the NEPA process.

18 *Id.* at 23; *see also id.* at 24 (“FDA must comply with NEPA before transgenic fish are approved as  
19 a safe food product.”).

20 **C. Issuance of the Guidance**

21 On September 19, 2008, FDA announced the availability of a draft version of the Guidance  
22 and provided a public comment period. Ex. 4 at FDA-G187-00001; Ex. 5 at FDA-G187-00026.<sup>11</sup>

23 <sup>10</sup> Like Case Study No. 1, Plaintiffs’ petition defined transgenic fish to include genetically  
24 engineered fish that have been intentionally altered at the molecular or cellular level by rDNA  
25 techniques, as well as the progeny of such fish that possess any of the altered molecular or cellular  
26 characteristics, and further described AquAdvantage Salmon as transgenic fish. Ex. 3 at FDA-  
27 2001CP-00002 n.4, 11.

28 <sup>11</sup> FDA’s issuance of the draft Guidance and provision of notice and opportunity to comment is  
referenced in paragraphs 80 and 263 of the Amended Complaint. The notice of availability of the  
draft Guidance was published at 73 Fed. Reg. 54407 (Sept. 19, 2008).

1 The draft Guidance was issued as a Level 1 draft guidance, pursuant to FDA’s Good Guidance  
 2 Practices regulation, 21 C.F.R. § 10.115, implementing FDA’s responsibilities under the FDA  
 3 Modernization Act. Ex. 5 at FDA-G187-00026. Level 1 guidance documents include guidance  
 4 documents that set forth initial interpretations of statutory or regulatory requirements, complex  
 5 scientific issues, or cover highly controversial issues, and generally may be issued only after  
 6 providing an opportunity for public comment. 21 C.F.R. § 10.115(c)(1) & (g). Plaintiff Center  
 7 for Food Safety and other public interest groups submitted extensive comments on the draft  
 8 Guidance. Am. Compl. ¶ 80.

9 On January 15, 2009, FDA issued the final version of the Guidance. *Id.* ¶ 81; Ex. 1 at  
 10 FDA-G187-00568.<sup>12</sup> The Guidance explains the statutory provisions giving FDA authority over  
 11 new animal drugs and how those provisions apply to genetically engineered animals. *Id.* at 71 to  
 12 -73. Consistent with Case Study No. 1, the Guidance explains that the FDCA’s new animal drug  
 13 provisions authorize FDA to regulate in this context because “[t]he rDNA construct in a GE animal  
 14 that is intended to affect the structure or function of the body of the GE animal ... meets the  
 15 [FDCA] drug definition.” *Id.* at 572.<sup>13</sup>

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 18 <sup>12</sup> The Guidance was revised in minimal and largely administrative ways in June 2015. *Compare*  
 19 Ex. 1 at FDA-G187-00568 (Jan. 2009 Guidance) *with* Ex. 6 at FDA-G187-00594 (June 2015  
 20 revision). The revision to the Guidance was a Level 2 change under FDA’s Good Guidance  
 21 Practices. *See* 21 C.F.R. § 10.115(c)(2), (g) (Level 2 guidance documents are ones that set forth  
 22 existing practices or minor changes in interpretation or policy and generally are not subject to  
 23 public comment prior to issuance). Level 1 changes to update the guidance and broaden its scope  
 24 to encompass more current technology were proposed in January 2017, but have not been finalized.  
 25 82 Fed. Reg. 6,167 (Jan. 19, 2017); 82 Fed. Reg. 17,844 (April 13, 2017) (extending comment  
 26 period). The citations to the Guidance herein are to the 2009 version.

27 <sup>13</sup> The Guidance defines genetically engineered animals as “those animals modified by rDNA  
 28 techniques, including the entire lineage of animals that contain the modification.” Ex. 1 at FDA-  
 G187-00569. For ease of reference, in the Guidance and at times here, FDA “refer[s] to [its]  
 regulation of the article in . . . GE animals [*i.e.*, the rDNA construct as integrated in the animal’s  
 genome] as regulation of the GE animal.” *Id.* at FDA-G187-00573.



1 The Guidance also explains the statutory requirements for applications seeking approval  
2 of new animal drugs, set out in 21 U.S.C. § 360b(b)(1); describes the requirements for approval in  
3 each implementing provision of FDA’s regulations, *i.e.*, in each subpart of 21 C.F.R. § 514.1;  
4 discusses how these requirements apply to developers of rDNA constructs intended to affect the  
5 structure or function of animals’ bodies; and suggests ways in which such developers can satisfy  
6 each of those regulatory requirements and obtain approval of such new animal drugs. *See* Ex. 1.  
7 The Guidance further explains the various steps that FDA intends to follow in its review process.  
8 *See id.* at FDA-G187-00579 to -586. The Guidance states that it “represents [FDA]’s current  
9 thinking [and] does not create or confer any rights for or on any person and does not operate to  
10 bind FDA or the public. [A sponsor] can use an alternative approach if the approach satisfies the  
11 requirements of the applicable statutes and regulations.” *Id.* at 569 (emphasis omitted).

12 In addition, the Guidance acknowledges FDA’s obligation to comply with NEPA when  
13 approving a new animal drug application, *id.* at 574; summarizes the requirement in 21 C.F.R.  
14 § 514.1(b)(14) that a new animal drug application include either a claim for categorical exclusion  
15 or an environmental assessment, *id.* at 585; and sets forth FDA’s expectation that, “at least until  
16 we have more experience, most [genetically engineered] animal applications would have to be  
17 evaluated to determine whether such an application individually or cumulatively affects the  
18 environment,” *id.* at 590-91.

19 **D. FDA’s Denial of the 2001 Citizen Petition**

20 On January 15, 2009, FDA denied the 2001 Citizen Petition. Ex. 7 at FDA-2001CP-  
21 000805. In its denial letter, FDA explained that “it already has ‘a comprehensive regulatory  
22 framework’ in place that addresses potential impacts to human health and the environment of GE  
23 fish and, because GE fish must comply with the requirements of this regulatory framework,” there  
24 was “no need for a ‘moratorium’ on the domestic marketing and importation of GE fish.” *Id.* at  
25 806. FDA explained that this comprehensive regulatory framework consists of “FDA’s existing  
26 [new animal drug application] regulations [that] apply to GE animals, including GE fish.” *Id.*



1 at 809. FDA noted that “it is accomplishing what petitioners request since the application of the  
 2 new animal drug statutory and regulatory provisions will address the safety and efficacy of GE  
 3 fish and the human food safety of food animal fish.<sup>14</sup> Therefore, the necessary regulatory  
 4 framework is in place and no new regulations are necessary.” *Id.* FDA further noted that the  
 5 Guidance provided guidance on how the FDCA’s new animal drug provisions and its  
 6 implementing regulations apply to genetically engineered animals. *Id.* at 805.<sup>15</sup>

7 With respect to environmental issues, citing its regulation and echoing the Guidance, FDA  
 8 explained that its new animal drug application approvals “are subject to the requirements of  
 9 NEPA”; and that a new animal drug application “must include either an environmental assessment  
 10 or a claim for categorical exclusion (which excuses certain categories of actions from the  
 11 preparation of an [environmental assessment] where the agency has determined that that category  
 12 of action does not individually or cumulatively have a significant effect on the human environment,  
 13 40 CFR § 1508.4). 21 CFR § 514.3(b)(14).” Ex. 7 at FDA-2001CP-00811.<sup>16</sup> As FDA further  
 14 explained, “NEPA is a procedural requirement and does not give us new authority, such as to  
 15 prohibit an activity solely because it would harm the quality of the environment.” *Id.* at 813.

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 17  
 18 <sup>14</sup> In its denial of the citizen petition, FDA noted that “new animal drugs must be found safe for  
 19 use in food for the drug to be approved for use in food animals,” and that the food safety of  
 20 genetically engineered salmon would have to be established for FDA to approve a new animal  
 21 drug application concerning such fish. Ex. 7 at FDA-2001CP-00809. As noted above, Plaintiffs  
 22 do not challenge FDA’s conclusion that AquAdvantage Salmon is safe to eat.

23 <sup>15</sup> In rejecting an additional request in the citizen petition that FDA establish regulations requiring  
 24 that all genetically engineered fish undergo review under the food additive provisions of the FDCA  
 25 in addition to review under the new animal drug provisions, *see* Ex. 3 at FDA-2001CP-00002, -  
 26 15, FDA explained that “[n]ew animal drugs are excluded from the definition of food additives  
 27 and so cannot be regulated as food additives.” Ex. 7 at FDA-2001CP-000809 (citing 21 U.S.C.  
 28 § 321(s)(5), which defines “food additive” to “not include . . . a new animal drug”). Under this  
 clear exclusionary language, as the citizen petition itself acknowledged, *see* Ex. 3 at FDA-2001CP-  
 00015 n.27, an article regulated as a new animal drug cannot *also* be regulated as a food additive.

<sup>16</sup> The reference to Section 514.3(b)(14) rather than Section 514.1(b)(14) is a typographical error.

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1           **E.       FDA’s Approval of AquaBounty’s New Animal Drug Application**

2           On November 19, 2015, FDA approved AquaBounty’s new animal drug application for an  
3 rDNA construct as integrated in the genome of a line of triploid, all-female genetically engineered  
4 Atlantic salmon, known as “AquAdvantage Salmon.” Ex. 8. Under the approval, AquAdvantage  
5 Salmon are to be produced in Canada and grown out in Panama, where the fish will be harvested  
6 and processed for food use and sale in the United States. Am. Compl. ¶¶ 2, 5, 112-14.

7           **F.       Claims 1, 8, 12, and 13**

8           Claim 1 of the Complaint challenges FDA’s approval of AquaBounty’s new animal drug  
9 application and issuance of the Guidance under the FDCA and the APA as *ultra vires*. Plaintiffs  
10 allege that FDA lacks statutory authority under the FDCA’s new animal drug provisions to regulate  
11 the rDNA construct as integrated in the genome of genetically engineered animals because it does  
12 not meet the FDCA’s definition of a “drug” or “new animal drug.” *Id.* ¶¶ 11, 156-66. Specifically,  
13 Plaintiffs allege that the FDCA “does not explicitly grant FDA authority to regulate GE animals,”  
14 *id.* ¶ 11; “Congress never intended or provided a means for FDA to regulate twenty-first century  
15 GE animals using its 1938 authority over veterinary animal drugs,” *id.*; the Guidance “interpret[s]  
16 the definition of ‘new animal drug’ under the [FDCA to include GE animals,” *id.*; and “FDA’s  
17 approval of AquaBounty’s application and the issuance of [the Guidance] represent an unlawful  
18 effort to extend FDA’s regulatory reach far beyond the statutory mandates of the [FDCA,” *id.*

19           Claim 8 challenges the Guidance under NEPA and the APA. Plaintiffs allege that the  
20 Guidance adopted a new “regulatory framework for GE animal approvals,” and, therefore, “is a  
21 major federal action significantly affecting the human environment,” requiring FDA to prepare a  
22 programmatic environmental impact statement on the effects of this new “framework” before  
23 issuing the Guidance and approving AquaBounty’s new animal drug application. *Id.* ¶ 219-20,  
24 222.

25           Claim 12 challenges the Guidance and new animal drug application approval under the  
26 FDCA and APA. Plaintiffs allege that FDA was required to consider environmental safety in  
27

1 determining the safety and effectiveness of AquaBounty’s new animal drug. *Id.* ¶¶ 11, 247-55.  
 2 Specifically, Plaintiffs allege that FDA, in the Guidance, “expressly interpreted the [FDCA] to  
 3 include environmental risks as a relevant factor when evaluating the safety and effectiveness of a  
 4 drug,” but “fails to rationally explain what factors FDA will consider relevant to this determination  
 5 and how FDA will weigh or consider such factors when it evaluates whether an application is ‘safe  
 6 and effective’ in its approvals and decisionmaking.” *Id.* ¶¶ 249-50, 253. Plaintiffs further allege  
 7 that FDA failed to consider environmental safety as part of the FDCA’s “safety and effectiveness”  
 8 requirement in approving AquaBounty’s new animal drug application. *Id.* ¶¶ 248, 254.

9 Claim 13 challenges FDA’s issuance of the Guidance under the FDA Modernization Act  
 10 of 1997 and the APA on procedural grounds. *Id.* ¶¶ 256-65. Plaintiffs allege that FDA was  
 11 required to follow notice and comment rulemaking in issuing the Guidance. *Id.* Specifically,  
 12 Plaintiffs allege that FDA in its draft Guidance “formally announced for the first time that the  
 13 agency would extend its jurisdiction to cover GE animals, including those produced for food like  
 14 AquaBounty’s GE salmon,” *id.* ¶ 80, *see id.* ¶ 260; the Guidance is a *de facto* amendment to FDA’s  
 15 new animal drug regulations “because it confers legal rights to entities seeking approval of GE  
 16 animals and binds FDA to accept and review those applications,” *id.* ¶ 261; prior to issuance of  
 17 the Guidance, “[n]o regulatory pathway for GE animals existed,” *id.* ¶ 262; and although FDA  
 18 provided notice and opportunity to comment prior to issuing the Guidance, its failure to offer notice  
 19 and comment “in the APA formal rulemaking context deprived stakeholders, including Plaintiffs,  
 20 of the formality and finality in FDA’s determination and interpretation of its authority,” *id.* ¶ 263.

### 21 **III. CONTROLLING LEGAL STANDARDS AND SCOPE OF REVIEW**

#### 22 **A. Federal Rule of Civil Procedure 12(c)**

23 Judgment on the pleadings is appropriate when there are no disputed issues of material fact  
 24 and the movant is entitled to judgment as a matter of law. Fed. R. Civ. P. 12(c); *Fleming v. Pickard*,  
 25 581 F.3d 922, 925 (9th Cir. 2009); *Knappenberger v. City of Phx.*, 566 F.3d 936, 939 (9th Cir.  
 26 2009). The court must accept as true all the material facts alleged in the complaint and draw all  
 27

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1 reasonable inferences in favor of the non-moving party, *Fleming*, 581 F.3d at 925, and may,  
2 without converting the motion into one for summary judgment, take judicial notice of facts when  
3 appropriate to do so and consider any document referenced in or integral to a plaintiff's complaint.  
4 *Knieval*, 393 F.3d at 1076; *Shame on You Productions, Inc. v. Banks*, 120 F. Supp. 3d 1123, 1144-  
5 45 (C.D. Cal. 2015).

6 **B. Deference under the APA**

7 An agency action may only be set aside under the APA if “arbitrary, capricious, an abuse  
8 of discretion, or otherwise not in accordance with law”; “in excess of statutory jurisdiction,  
9 authority, or limitations, or short of statutory right”; or “without observance of procedure required  
10 by law.” 5 U.S.C. § 706(2)(A), (C), (D). This standard is highly deferential to the agency. *See*  
11 *Northwest Ecosystem Alliance v. U.S. Fish and Wildlife Serv.*, 475 F.3d 1136, 1140 (9th Cir.2007).  
12 The reviewing court must determine whether the agency's decision was based upon consideration  
13 of the relevant factors and whether there has been a clear error of judgment. *Northcoast Env'tl.*  
14 *Ctr. v. Glickman*, 136 F.3d 660, 666 (9th Cir. 1998). But the court “may not substitute [its]  
15 judgment for that of the agency,” *id.* (internal quotations omitted), and must uphold the agency's  
16 action so long as it is “rational, based on consideration of the relevant factors, and within the scope  
17 of the authority delegated to the agency by the statute.” *Motor Vehicle Mfrs. Ass'n, Inc., v. State*  
18 *Farm Mut. Auto. Ins. Co.*, 463 U.S. 29, 42 (1983). In addition, “the party challenging an agency's  
19 action as arbitrary and capricious bears the burden of proof.” *George v. Bay Area Rapid Transit*,  
20 577 F.3d 1005, 1011 (9th Cir. 2009) (citing *City of Olmsted Falls v. FAA*, 292 F.3d 261, 271 (D.C.  
21 Cir. 2002)).

22 Agencies receive deference for their interpretations of the statutes they are tasked with  
23 administering. *Chevron, U.S.A., Inc. v. Natural Res. Def. Council, Inc.*, 467 U.S. 837, 865 (1984);  
24 *see also United States v. Mead Corp.*, 533 U.S. 218, 227–28 (2001) (recognizing “that considerable  
25 weight should be accorded to an executive department's construction of a statutory scheme it is  
26 entrusted to administer”). The first question under *Chevron* is “whether Congress has directly  
27

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1 spoken to the precise question at issue.” *Chevron*, 467 U.S. at 842. “If the intent of Congress is  
2 clear, that is the end of the matter.” *Id.* at 842-43. Put another way, the Court must initially decide  
3 “whether the statute unambiguously forbids the Agency’s interpretation.” *Barnhart v. Walton*,  
4 535 U.S. 212, 218 (2002). If, however, the statute “is silent or ambiguous with respect to the  
5 specific issue,” the Court proceeds to the second prong of *Chevron*, under which “the question for  
6 the court is whether the agency’s answer is based on a permissible construction of the statute.”  
7 *Chevron*, 467 U.S. at 843. The court need not find that the agency’s construction was the only one  
8 it permissibly could have adopted or even the reading the court would have reached; rather, so  
9 long as the agency’s reading is permissible, it must be sustained. *See Chevron*, 467 U.S. at 843–  
10 44 & n.11; *Cnty. of L.A. v. Shalala*, 192 F.3d 1005, 1012–13 (D.C. Cir. 1999).

11 Moreover, even when an agency is interpreting its own regulations, the agency is entitled  
12 to “substantial deference.” *Thomas Jefferson Univ. v. Shalala*, 512 U.S. 504, 512 (1994); *Auer v.*  
13 *Robbins*, 519 U.S. 452, 462 (1997); *see also Alaska Wilderness League v. Jewell*, 788 F.3d 1212,  
14 1221-22, 1224 (9th Cir. 2015) and *Novartis Pharms. Corp. v. Leavitt*, 435 F.3d 344, 349 (D.C.  
15 Cir. 2006) (“We have held on a number of occasions that FDA interpretations of the [FDCA]  
16 receive deference, as do its interpretations of its own regulations unless plainly erroneous or  
17 inconsistent with the regulations.”). A court’s task “is not to decide which among several  
18 competing interpretations best serves the regulatory purpose. Rather, the agency’s interpretation  
19 must be given controlling weight unless it is plainly erroneous or inconsistent with the regulation.”  
20 *Thomas Jefferson Univ.*, 512 U.S. at 512 (internal quotation and citation omitted). Deference is  
21 especially appropriate when the statutory and regulatory regimes implemented by the agency are  
22 complex. *See Actavis Elizabeth LLC v. FDA*, 625 F.3d 760, 766 (D.C. Cir. 2010).

23 **IV. FEDERAL DEFENDANTS ARE ENTITLED TO JUDGMENT ON**  
24 **CLAIMS 1, 8, 12, AND 13 AS A MATTER OF LAW**

25 **A. This Court Lacks Jurisdiction over Plaintiffs’ Challenge to the Guidance in**  
26 **Claims 1, 8, 12, And 13**

27 Plaintiffs’ challenge to the Guidance in Claims 1, 8, 12, and 13 fails on jurisdictional

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1 grounds for two reasons.<sup>17</sup> The Guidance is not final agency action, and even if it were, Plaintiffs  
2 would lack standing to challenge it.

### 3 **1. The Guidance is not final agency action**

4 The Guidance is not final agency action because it merely summarizes the new animal drug  
5 provisions of the FDCA and implementing regulations, explains how those provisions apply to  
6 particular new animal drugs concerning genetically engineered animals, and provides suggestions  
7 to potential sponsors and FDA's current thinking on how they can comply with those provisions'  
8 technical requirements. Claims 1, 8, 12, and 13 challenge the Guidance in whole or in part, and  
9 thus, to the extent they do so, they fail as a matter of law.<sup>18</sup>

10 "As a general matter, two conditions must be satisfied for agency action to be 'final.'" *Bennett v. Spear*, 520 U.S. 154, 177 (1997). "First, the action must mark the 'consummation' of  
11 the agency's decision[-]making process, --it must not be of a merely tentative or interlocutory  
12 nature." *Id.* at 177-78 (internal citation omitted). "And second, the action must be one by which  
13 rights or obligations have been determined, or from which legal consequences will flow." *Id.*  
14 (internal quotation marks omitted). Finality is a jurisdictional requirement for obtaining judicial  
15 review of agency action. *Navajo Nation v. U.S. Dep't of Interior*, 819 F.3d 1084, 1090 (9th Cir.  
16 2016); *see City of San Diego v. Whitman*, 242 F.3d 1097, 1098 (9th Cir. 2001).

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19  
20 <sup>17</sup> The D.C. Circuit concluded in *Vietnam Veterans of America v. Shinseki*, 599 F.3d 654, 661  
21 (D.C. Cir. 2010) that the APA's reviewability provision, Section 704, is not jurisdictional. Courts  
22 in the Ninth Circuit have held that it is jurisdictional, however, because it limits the scope of the  
23 APA's waiver of sovereign immunity. *See Tucson Airport Auth. v. General Dynamics Corp.*, 136  
24 F.3d 641, 645 (9th Cir. 1998); *Gallo Cattle Co. v. USDA*, 159 F.3d 1194, 1198-99 (9th Cir. 1998).  
25 While there is some tension in the Ninth Circuit's precedents as to whether Section 704 poses a  
26 jurisdictional barrier to constitutional claims, *see Gros Ventre Tribe v. United States*, 469 F.3d  
27 801, 809 (9th Cir. 2006) (contrasting *Gallo Cattle* and *Presbyterian Church v. United States*, 870  
28 F.2d 518 (9th Cir. 1989)), there is no doubt that it poses an independent limitation on APA claims  
– the only claims at issue in this motion.

<sup>18</sup> Claims 1 and 12 also challenge the approval.

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1 Neither *Bennett* prong is satisfied here. The Guidance—unlike FDA’s approval of  
 2 AquaBounty’s new animal drug application—does not mark the consummation of any decision-  
 3 making process. *See Navajo Nation*, 819 F.3d at 1092 (“the decision to follow Interior’s solicitor’s  
 4 guidance” and “to apply NAGPRA [the Native American Graves Protection and Repatriation Act]  
 5 to these [human] remains and objects . . . constituted a final agency action”).

6 The requirements for approval of a new animal drug application are established by statute,  
 7 21 U.S.C. § 360b(b), and implementing regulations, 21 C.F.R. Part 514. Section 514.1 sets forth  
 8 the requirements for new animal drug applications. On its face, the Guidance does not create any  
 9 new requirements. Rather, as set forth above, it summarizes the requirements of each subpart of  
 10 section 514.1 and provides guidance on how new animal drug applications can address those  
 11 requirements. *See* Ex. 1, FDA-G187-00579 to -86. In order to facilitate FDA’s evaluation of new  
 12 animal drugs under the existing regulatory framework, the Guidance also sets forth FDA’s  
 13 recommendations concerning the information a sponsor can submit to satisfy these regulatory  
 14 requirements and the FDCA’s safety and effectiveness requirements with respect to rDNA  
 15 constructs intended to affect the structure or function of animals’ bodies. *Id.* at 586-91.<sup>19</sup> And it  
 16 explains FDA’s “current thinking” on regulation of genetically engineered animals containing  
 17 heritable rDNA constructs as of the date of issuance. *Id.* at 569. The Guidance is thus advisory  
 18 only. *See U.S. Army Corps of Engineers v. Hawkes Co.*, 136 S. Ct. 1807, 1813 (2016)  
 19 (distinguishing preliminary jurisdictional determination of whether “waters of the United States”

20 \_\_\_\_\_  
 21 <sup>19</sup> To illustrate, the Guidance summarizes the regulatory requirements for safety and effectiveness,  
 22 explaining that 21 C.F.R. § 514.1(b)(8) “requires that [a new animal drug application] include  
 23 data/information to permit evaluation of the safety and effectiveness of the new animal drug  
 24 product for the use as suggested in the proposed labeling” and “also requires that sponsors supply  
 25 all information relevant to safety and effectiveness for a new animal drug, favorable and  
 26 unfavorable.” Ex. 1 at FDA-G187-00583-84 (section IV.B.8.). The Guidance then refers sponsors  
 27 to the discussion in section IV.C. of the related steps in FDA’s review process, including target  
 animal safety (Step 4), food and feed safety (Step 6), and effectiveness/claim validation (Step 7),  
 and discusses an approach that sponsors can follow to satisfy section 514.1(b)(8)’s regulatory  
 requirements for each step. *Id.* at 586.

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1 are on a parcel of property that is ““advisory in nature”” from an approved determination that  
2 constitutes final agency action).

3 The second *Bennett* prong also is not satisfied because, unlike the approved jurisdictional  
4 determination at issue in *Hawkes*, the Guidance has no legal consequences, as it itself states. Any  
5 legal consequences flow from the FDCA, implementing regulations, and approval of a new animal  
6 drug pursuant thereto—not the Guidance. Ex. 1 at FDA-G187-00569, 571; 21 C.F.R. § 10.115(d).  
7 Because the Guidance does not have “the status of law or comparable legal force,” *Oregon Natural*  
8 *Desert Ass’n v. U.S. Forest Service*, 465 F.3d 977, 986-87 (9th Cir. 2006), “impose an obligation,  
9 deny a right, or fix some legal relationship,” *Ukiah Valley Med. Ctr. v. FTC*, 911 F.2d 261, 264  
10 (9th Cir. 1990), or “give[] rise to ‘direct and appreciable legal consequences,’” *Hawkes*, 136 S. Ct.  
11 at 1814, it is not final agency action.

12 Because issuance of the Guidance is not “final agency action,” it is not reviewable under  
13 the APA. Claims 1 and 12 thus fail to the extent they challenge the Guidance, while Claims 8 and  
14 13 (which challenge the Guidance but not the approval), fail as a matter of law.

## 15 **2. Plaintiffs also lack standing to challenge the Guidance**

16 Plaintiffs’ challenge to the Guidance in Claims 1, 8, 12, and 13 also fails on jurisdictional  
17 grounds because they have not alleged that (1) the Guidance has or will injure them in any concrete  
18 or particularized way, or that (2) an order setting aside the Guidance would have any effect on the  
19 only harms about which they complain, *i.e.*, injuries to their “recreational, scientific, aesthetic,  
20 cultural, spiritual, subsistence, and commercial” interests in salmon and salmon habitats. *See* Am.  
21 Compl. ¶¶ 17-18, 29-30. Plaintiffs nowhere allege that these harms are attributable to the  
22 Guidance. Nor would any such allegation be plausible because the Guidance simply summarizes  
23 the law; it does not extend FDA’s authority. “Enjoining” this Guidance document would do  
24 nothing to redress Plaintiffs’ alleged harms and they thus lack standing to challenge it.

25 To establish standing under Article III’s “case” or “controversy” provision, a plaintiff must  
26 establish as to each claim “that (1) [it] suffered an injury in fact, *i.e.*, one that is sufficiently  
27



1 ‘concrete and particularized’ and ‘actual or imminent, not conjectural or hypothetical,’ (2) the  
2 injury is ‘fairly traceable’ to the challenged conduct, and (3) the injury is ‘likely’ to be ‘redressed  
3 by a favorable decision.’” *Bates v. United Parcel Serv.*, 511 F.3d 974, 985 (9th Cir. 2007) (quoting  
4 *Lujan v. Defenders of Wildlife*, 504 U.S. 555, 560-61 (1992)); see *Washington Envtl. Council v.*  
5 *Bellon*, 732 F.3d 1131, 1139-40 (9th Cir. 2013); *Schmier v. U.S. Court of Appeals for Ninth Circuit*,  
6 279 F.3d 817, 820-21, 823 (9th Cir. 2002).

7 Plaintiffs do not allege that any of their claimed injuries are fairly traceable to the Guidance.  
8 They allege, rather, that it is “FDA’s *approval* of [AquaBounty’s new animal drug application  
9 that] harms Plaintiffs’ and their members’ . . . enjoyment of salmonids and salmonid habitat by  
10 allowing production of GE salmon to proceed without adequate regulation and analyses of  
11 associated . . . environmental and ecological impacts.” Am. Compl., ¶ 30 (emphasis added); see  
12 *id.*, ¶ 139 (“Of particular concern to Plaintiffs are the potential impacts of FDA’s approval of  
13 [AquaBounty’s new animal drug application] upon already vulnerable wild fish populations”).  
14 Plaintiffs’ actual dispute is with FDA’s approval of the new animal drug at issue—not the  
15 Guidance. Their asserted harms are neither traceable to the Guidance nor redressable via an  
16 injunction against the Guidance, such that they lack standing.

17 Indeed, even if this Court were to enjoin the Guidance, that injunction would not constrain  
18 FDA’s approval authority, because that authority comes from the FDCA itself. The Guidance  
19 merely advises sponsors on how they may satisfy preexisting statutory and regulatory  
20 requirements. “Relief that does not remedy the injury suffered cannot bootstrap a plaintiff into  
21 federal court.” *Steel Co. v. Citizens for a Better Env’t*, 523 U.S. 83, 107 (1998). Accordingly,  
22 Claims 1 and 12, to the extent they challenge the Guidance, and Claims 8 and 13 (which challenge  
23 only the Guidance and not the approval) fail on jurisdictional grounds as a matter of law.

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1 **B. Federal Defendants Are Entitled to Judgment on the Merits of Claims 1, 12, and**  
2 **13’s Challenge to the Guidance and Approval as a Matter of Law**

3 **1. Judgment on Claim 1 is warranted because FDA has authority to**  
4 **regulate the integrated rDNA construct under the plain language**  
5 **of the FDCA**

6 Under the plain language of the FDCA, FDA has authority to regulate new animal drugs  
7 intended to affect the structure or any function of the body of animals, including through genetic  
8 engineering. Plaintiffs nonetheless challenge FDA’s approval of AquaBounty’s new animal drug  
9 application and issuance of the Guidance on the ground that the FDCA “does not explicitly grant  
10 FDA authority to regulate GE animals,” and that “Congress never intended or provided a means  
11 for FDA to regulate twenty-first century GE animals using its 1938 authority over veterinary  
12 animal drugs.” Am. Compl. ¶ 11 (Count 1). Neither assertion is correct. The FDCA’s new animal  
13 drug provisions easily encompass the rDNA construct as integrated in the genome of  
14 AquaAdvantage Salmon. Congress, moreover, has acknowledged FDA’s statutory authority with  
15 respect to genetically engineered animals and ratified that authority on a number of occasions.

16 Foremost, the FDCA defines “drug” to include “articles (other than food) intended to affect  
17 the structure or any function of the body of man or other animals.” 21 U.S.C. § 321(g)(1)(C).  
18 “Congress fully intended that the [FDCA’s] coverage be as broad as its literal language indicates.”  
19 *United States v. Article of Drug Bacto-Unidisk*, 394 U.S. 784, 798 (1969). It is undisputed that  
20 the AquaAdvantage Salmon rDNA construct at issue has been integrated into the genome of a line  
21 of Atlantic salmon in order to affect the animal’s structure or function, *i.e.*, to stimulate faster  
22 growth.<sup>20</sup> Because the construct is intended to affect the structure or function of the salmon into  
23 whose genome the construct has been integrated, it meets the FDCA’s definition of a drug. *See*

24 \_\_\_\_\_  
25 <sup>20</sup> Paragraph 77 of the Amended Complaint alleges that, “The ocean pout promoter acts like a  
26 switch, keeping the growth hormone protein from turning off, which allows for continued growth  
27 of the fish”). *See also* Ex. 3 at FDA-2001CP-00016 (“The growth hormone transgene affects the  
28 characteristics of the fish by causing it to grow . . . faster than wild salmon.”).

1 Ex. 2 at FDA-2001CP-00091 (Case Study No. 1); Ex. 7 at FDA-2001CP-000805 to -806 (denial  
2 of 2001 Citizen Petition); Ex. 1 at FDA-G187-00571 (the Guidance); Ex. 8 at FDA-023113  
3 (approval of AquaBounty's new animal drug application).

4 An animal drug is defined as a "new animal drug" unless it is both generally recognized as  
5 safe and effective and has been used to a material extent and for a material time, as defined in the  
6 FDCA. 21 U.S.C. § 321(v); *see* Section I.A., *supra*. Because the rDNA construct as integrated in  
7 the genome of AquaAdvantage Salmon is not generally recognized as safe and effective for this  
8 intended use and has not been used to a material extent or for a material time, it is a new animal  
9 drug under 21 U.S.C. § 321(v). Under the Act, with exceptions not applicable here, a new animal  
10 drug is generally "deemed unsafe" unless FDA has approved a new animal drug application for a  
11 particular use. *See* 21 U.S.C. §§ 360b(a)(1), (a)(3), (a)(4), (a)(5). FDA thus has the authority to  
12 review, and if appropriate approve, a new animal drug application such as AquaBounty's under  
13 the FDCA's new animal drug provisions.

14 Even if the new animal drug provisions of the FDCA were ambiguous, which they are not,  
15 *Chevron* requires deferring to FDA's reasonable construction of the Act here because that  
16 construction is plainly permissible and there is no "clear expression of congressional intent to the  
17 contrary." *San Francisco BayKeeper v. Whitman*, 297 F.3d 877, 885 (9th Cir. 2002) (absent "a  
18 clear expression of congressional intent to the contrary, courts should defer to reasonable agency  
19 interpretations" of the laws they are charged with enforcing) (internal quotation marks omitted);  
20 *see Chevron*, 467 U.S. at 843-44; *Fournier v. Sebelius*, 718 F.3d 1110, 1118 (9th Cir. 2013).

21 Indeed, amendments to the FDCA as far back as 1988 reflect Congress' recognition that  
22 FDA has authority to regulate rDNA constructs under its new animal drug authority, making clear  
23 that FDA's authority is not limited to the technologies of the 1930s, but is sufficiently broad to  
24 encompass new medical and scientific developments such as genetic manipulation. *See Chevron*,  
25 467 U.S. at 842 (rejecting "static" definition of statutory term when Congress had not commanded  
26 that definition). The Generic Animal Drugs and Patent Term Restoration Act of 1988, Pub. L. No.

27  
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1 100-670, Title I, § 106, 102 Stat. 3984, amended the FDCA to create an expedited approval system  
 2 for certain generic new animal drugs, but excepted new animal drugs primarily manufactured using  
 3 rDNA or other processes involving site specific genetic manipulation techniques (biotechnology),  
 4 thereby requiring such drugs to go through the full new animal drug application process.<sup>21</sup>  
 5 Similarly, the Minor Use and Minor Species Animal Health Act of 2004, 21 U.S.C. § 360ccc,  
 6 amended the FDCA to permit “conditional approval” of an animal drug to treat minor animal  
 7 species and uncommon diseases in major animal species in specified circumstances, but excepted  
 8 a drug “that is contained in, or is a product of, a transgenic animal.”<sup>22</sup> In addition, Section 1007  
 9 of the Food and Drug Administration Amendments Act of 2007, 21 U.S.C. § 2106, directed FDA  
 10 to consult with the National Marine Fisheries Service to produce a report on environmental risks  
 11 associated with genetically engineered seafood products. Most recently, in the Animal Drug and  
 12 Generic Animal Drug User Fee Amendments of 2018, Congress amended Section 740(d) of the  
 13 FDCA to exempt from certain user fee provisions sponsors of an application or investigational  
 14 submission “if such application or submission involves the intentional genomic alteration of an  
 15 animal that is intended to produce a drug, device, or biological product subject to fees.” This  
 16 provision has the effect of exempting from fees submissions and applications for genetically  
 17 engineered animals that are intended to produce human medical products, such as the genetically  
 18 engineered goat that produces a human biological product in its milk. *See* n.2, *supra*. These  
 19 statutory provisions would have been unnecessary—indeed they would make no sense—if the new  
 20 animal drug provisions of the FDCA did not encompass new animal drugs manufactured through  
 21

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22  
 23 <sup>21</sup> Plaintiffs address this exclusion in their 2001 Citizen Petition. *See* Ex. 3 at FDA-2001CP-00014  
 to -15.

24 <sup>22</sup> “Transgenic animal” is defined as “an animal whose genome contains a nucleotide sequence  
 25 that has been intentionally modified in vitro, and the progeny of such an animal,” but further  
 26 provided that it “does not include an animal of which the nucleotide sequence of the genome has  
 27 been modified solely by selective breeding.” 21 U.S.C. § 360ccc(j). For purposes of  
 AquAdvantage Salmon, the terms genetically engineered and transgenic are interchangeable.

1 the use of rDNA or other forms of biotechnology. *See U.S. v. Regenerative Sciences, LLC*, 741  
 2 F.3d 1314, 1319-20 (D.C. Cir. 2014) (“The [FDCA’s] breadth—and, more specifically, its  
 3 applicability to doctors—is evident in the fact that the FDCA carves out certain exceptions from  
 4 its requirements for doctors who manufacture and administer drugs in the course of their  
 5 professional practice. Those exceptions would be unnecessary if the FDCA did not otherwise  
 6 regulate the distribution of drugs by licensed physicians.” (internal citations omitted)).

7 Likewise, bills introduced in Congress attempting to amend the new animal drug provisions  
 8 of the FDCA to *prevent* FDA from approving drugs that are intended to alter the genome of fish  
 9 through the use of bioengineering would have been unnecessary if FDA lacked authority under the  
 10 Act to do so. *See* Ex. 9 at FDA-2011CP-040 (S. 230, to amend the FDCA to prevent the approval  
 11 of genetically engineered fish by deeming it unsafe); Ex. 10 at FDA-2011CP-043 (H.R. 521,  
 12 same).<sup>23</sup> Congress is presumed to be knowledgeable about existing law pertinent to the legislation  
 13 it enacts (and proposes). *Goodyear Atomic Corp. v. Miller*, 486 U.S. 174, 184-85 (1988); *see*  
 14 *Columbia Riverkeeper v. U.S. Coast Guard*, 761 F.3d 1084, 1093 (9th Cir. 2014). The above  
 15 examples “‘provid[e] further evidence . . . that Congress intended the Agency’s interpretation, or  
 16 at least understood the interpretation as statutorily permissible.” *Fournier*, 718 F.3d at 1122,  
 17 (ellipses in original)(quoting *Barnhart v. Walton*, 535 U.S. 212, 220 (2002)).

18 In sum, the plain and unambiguous language of the new animal drug provisions of the  
 19 FDCA requires entry of judgment in the government’s favor on the merits of Claim 1. But if even  
 20 that text were ambiguous, FDA has consistently construed those provisions—in its 2001 Citizen  
 21 Petition denial, the Guidance, and the approval of AquaBounty’s new animal drug application—  
 22 as encompassing an rDNA construct as integrated in the genome of an animal. That long-standing  
 23 construction is undoubtedly permissible, and eminently reasonable. Thus, the agency is entitled  
 24

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25 <sup>23</sup> These bills are exhibits to the 2011 Citizen Petition, referenced in the Amended Complaint,  
 26 which Plaintiffs Center for Food Safety, Friends of the Earth, and Food and Water Watch, among  
 27 others, submitted to FDA. Am. Compl., ¶ 137.

1 to judgment on Count 1.

2 **2. Judgment on Claim 12 is warranted because environmental safety**  
 3 **is considered under NEPA, not the FDCA**

4 Claim 12's challenge to the Guidance and FDA's approval of AquaBounty's new animal  
 5 drug application rests on the legally incorrect premise that the FDCA requires environmental safety  
 6 to be considered in determining whether a new animal drug is "safe and effective" for its intended  
 7 use. Under the plain language of the Act, FDA considers whether a drug is safe for humans and  
 8 animals, *e.g.*, whether it is safe for the target animal and whether it is safe for humans to eat food  
 9 from the animal, not whether it is safe for the environment. *See* 21 U.S.C. § 360b(a)(1), (b)(1)(H),  
 10 (d)(1)-(2), (i). Even if the Act were ambiguous, the agency's implementing regulations, which  
 11 address environmental safety under NEPA, are reasonable and entitled to *Chevron* deference.  
 12 *Compare* 21 C.F.R. § 514.1(b)(8) (evidence to establish safety and effectiveness) *with* 21 C.F.R.  
 13 § 514.1(b)(14) (environmental assessment), and FDA-G187-00589 to -90 (food/feed safety) *with*  
 14 FDA-G187-00590 to -91 (environmental safety); *see also* 21 C.F.R. §§ 511.1(b)(10).

15 Plaintiffs' assertion in paragraph 249 of their Amended Complaint that FDA in the  
 16 Guidance "expressly interpreted the [FDCA] to include environmental risks as a relevant factor  
 17 when evaluating the safety and effectiveness of a drug" is flatly contradicted by the Guidance  
 18 itself. The allegation appears to be based on the Guidance's inclusion of its assessments of both  
 19 "Food/Feed Safety" and "Environmental Safety" in the same step (Step 6) of FDA's new animal  
 20 drug approval review process. Ex. 1 at FDA-G187-00589 to -90.<sup>24</sup> But the *Food/Feed Safety*

21 \_\_\_\_\_  
 22 <sup>24</sup> The Guidance states:

23 ***Step 6: The Food/Feed Safety and Environmental Safety Assessments***

24 ***Food/Feed Safety***

25 This part of Step 6 addresses the food and feed safety requirements in 21  
 26 CFR 514.1(b)(8). It focuses on the issue of whether food or feed derived  
 27 from a GE animal is safe for humans or animals consuming edible  
 products from the animals.

1 assessed in the first “part of Step 6 addresses the food and feed safety requirements in 21 CFR  
2 514.1(b)(8),” and “focuses on the issue of whether food or feed derived from a GE animal is safe  
3 for humans or animals consuming edible products from the animals.” Ex. 1 at FDA-G187-00589  
4 (emphasis added). The *Environmental Safety* assessed in the second part of Step 6, in contrast,  
5 “addresses the environmental component of [a new animal drug application],” and cites 21 C.F.R.  
6 § 514.1(b)(14), not 21 C.F.R. § 514.1(b)(8). Ex. 1 at FDA-G187-00589 to -90.<sup>25</sup> As the discussion  
7 of 21 C.F.R. § 514.1(b)(14) in Step 6 and the plain language of the provision itself make clear,  
8 (b)(14) is intended to implement FDA’s obligations under NEPA to assess environmental safety,  
9 not any purported obligations under the FDCA. See Ex. 1 at FDA-G187-00585.<sup>26</sup>

11 \_\_\_\_\_  
12 . . .  
13 *Environmental Safety*

14 This portion of Step 6 addresses the environmental component of your  
15 [new animal drug application]. 21 CFR 514.1(b)(14). We expect that, at  
16 least until we have more experience, most GE animal applications would  
17 have to be evaluated to determine whether such an application  
18 individually or cumulatively affects the environment (i.e., whether an  
19 extraordinary circumstance exists). 21 CFR 25.21. An [environmental  
20 assessment] that demonstrates the GE animal will not significantly affect  
21 the quality of the human environment leads to a finding of no significant  
22 impact (FONSI).

23 Ex. 1 at FDA-G187-00589 to -90 (emphasis in original).

24 <sup>25</sup> 21 C.F.R. § 514.1(b)(14) provides: “*Environmental Assessment*. The applicant is required to  
25 submit either a claim for categorical exclusion under § 25.30 or § 25.33 of this chapter or an  
26 environmental assessment under § 25.40 of this chapter.”

27 <sup>26</sup> The discussion in the Guidance addresses Section 514.1(b)(14)’s requirement that a sponsor  
28 prepare an environmental assessment unless the action at issue is categorically excluded, citing  
FDA’s regulations implementing NEPA, 21 C.F.R. Part 25. Ex. 1 at FDA-G187-00585. It notes  
that an environmental assessment “is a public document that provides sufficient information to  
allow FDA to either prepare an environmental impact statement (EIS) or issue a finding of no  
significant impact (FONSI)”, and “recommend[s] that the [environmental assessment] focus on  
environmental issues and potential impacts related to the use and disposal of the GE animal and  
its final product, if relevant.” *Id.*

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1 The *Food/Feed Safety* and *Environmental Safety* assessments are both included in Step 6,  
2 not because FDA interprets the FDCA to include environmental risks as a relevant factor in  
3 evaluating the safety and effectiveness of a new animal drug, but because this is the point in the  
4 review process at which FDA expects to have the information necessary to determine whether the  
5 drug will be safe for humans and animals, a determination required under the FDCA, and whether  
6 FDA's approval of the drug will have a significant impact on the environment, a determination  
7 required under NEPA. The only remaining step, "*Effectiveness/Claim Validation*," provides no  
8 new information relevant to environmental considerations. See Ex. 1 at FDA-G187-00591.  
9 Judgment on the merits of Claim 12, accordingly, is warranted as a matter of law.

10 **3. Judgment on Claim 13 is warranted because the Guidance is not**  
11 **a rule subject to notice and comment rule making**

12 Plaintiffs' procedural claim that the Guidance could be issued only after formal notice and  
13 comment rulemaking also must be dismissed because it rests on the demonstrably false premise  
14 that the Guidance is more than advisory. See Am. Compl., ¶ 261. As demonstrated in section  
15 IV.A.1. above, the Guidance does not create or confer any rights; any "rights" relating to approval  
16 of a new animal drug application concerning a genetically engineered animal are created by the  
17 FDCA and FDA's implementing regulations (21 C.F.R. Part 514). Moreover, as required by the  
18 FDA Modernization Act, before issuing the Guidance, FDA provided notice and an opportunity to  
19 comment, of which several Plaintiffs availed themselves. The Guidance thus fits squarely within  
20 the scope of the FDA Modernization Act, which authorizes the Secretary of HHS to "develop  
21 guidance documents with public participation" that do not "create or confer any rights for or on  
22 any person, although they present the views of the Secretary on matters under the jurisdiction of  
23 the [FDA]." 21 U.S.C. § 371(h)(1)(A). Judgment on the merits of Claim 13 is thus also warranted  
24 as a matter of law.

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**CONCLUSION**

For the foregoing reasons, the Court should enter judgment on Claims 1, 8, 12, and 13 in Federal Defendants' favor.

DATED: August 30, 2018

Respectfully submitted,

OF COUNSEL

CHAD A. READLER  
Acting Assistant Attorney General

BRIAN R. STIMSON  
Principal Deputy General Counsel

*/s/ Mary M. Englehart*  
MARY M. ENGLEHART  
Trial Attorney, Maryland Bar #0712110232  
Consumer Protection Branch  
United States Department of Justice  
450 Fifth St., N.W., Suite 6400 South  
Washington, D.C. 20530  
Tele: (202) 307-0088/Fax: (202) 514-8742  
[Megan.Englehart@usdoj.gov](mailto:Megan.Englehart@usdoj.gov)

LOWELL J. SCHILLER  
Acting Chief Counsel

ANNAMARIE KEMPIC  
Deputy Chief Counsel, Litigation

LESLIE COHEN  
BARBARA ALKALAY  
Associate Chief Counsels  
United States Department of  
Health and Human Services  
Office of the General Counsel  
Food and Drug Division  
Food and Drug Administration  
1451 Rockville Pike  
WOC2, Rm. 2208  
Rockville, MD 20852  
Tele: (301) 796-0551/Fax: (301) 827-3834  
(Cohen)  
Tele: (301) 348-3085(Alkalay)  
[Leslie.cohen@fda.hhs.gov](mailto:Leslie.cohen@fda.hhs.gov)  
[Barbara.alkalay@fda.hhs.gov](mailto:Barbara.alkalay@fda.hhs.gov)

JEFFREY H. WOOD  
Acting Assistant Attorney General

MARISSA A. PIROPATO  
Trial Attorney, Massachusetts Bar #651630  
United States Department of Justice  
Environment & Natural Resources Division  
Wildlife & Marine Resources Section  
Benjamin Franklin Station, P.O. Box 7611  
Washington, D.C. 20044-7611  
Tele: (202) 305-0470/Fax: (202) 305-0506  
[Marissa.piropato@usdoj.gov](mailto:Marissa.piropato@usdoj.gov)

*Attorneys for Federal Defendants*

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**ATTESTATION**

Pursuant to Local Rule 5-1(i)(3), I attest that I am the ECF user whose user ID and password are being used in the electronic filing of this document. I further attest that I have obtained the concurrence in the filing of the document from the other signatories.

/s/ Mary M. Englehart  
MARY M. ENGLEHART

**CERTIFICATE OF SERVICE**

I hereby certify that on this 30th day of August, a true and correct copy of the foregoing document was filed electronically with the Clerk of the Court using CM/ECF. I also certify that the foregoing document is being served on all counsel of record via transmission of Notices of Electronic Filing generated by CM/ECF.

/s/ Mary M. Englehart  
MARY M. ENGLEHART

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