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IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF WASHINGTON
AT SEATTLE

SPOKANE RIVERKEEPER,	
Plaintiff,	NO.
v.	
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,	COMPLAINT
Defendant.	

I. NATURE OF ACTION

1. Hangman Creek is a waterbody that has suffered from terrible water quality caused by poor farming practices for years. Pollutants such as fecal coliform, turbidity, and high water temperature have impaired Hangman Creek to levels well below those established by the Clean Water Act (“CWA”).

2. The sources of pollution in the Hangman Creek Watershed are numerous and diverse. Agricultural pollution is by far the biggest source of pollution throughout the watershed. Poor agricultural practices, such as animal waste runoff, inadequate soil tillage, and a lack of riparian buffers, are frequent nonpoint sources of pollution. Point sources of pollution in the watershed include multiple wastewater treatment plants.

1 3. The CWA contemplates that adequate water quality will be achieved by the use of
2 the National Pollutant Discharge Elimination System (“NPDES”) permits issued to point sources
3 of pollution. When the NPDES permits do not achieve adequate water quality standards for a
4 water body, the CWA requires that a Total Maximum Daily Load (“TMDL”) be established. A
5 TMDL accounts for all point sources of pollution and all nonpoint sources of pollution and then
6 determines the level that each source of pollution needs to be reduced in order to achieve
7 adequate water quality standards.

9 4. Under the CWA, either Ecology or the EPA is required to establish a TMDL for
10 impaired waters “at a level necessary to implement the applicable water quality standards with
11 seasonal variations and a margin of safety which takes into account any lack of knowledge
12 concerning the relationship between effluent limitations and water quality.” 33 U.S.C. §
13 1313(d)(1)(C). If Ecology creates a TMDL, the EPA must either approve the TMDL or
14 disapprove the TMDL. If EPA disapproves the submitted TMDL, the EPA is responsible for
15 establishing a new TMDL. 33 U.S.C. § 1313(2).

17 5. In order to begin the process of improving water quality in Hangman Creek, the
18 Washington Department of Ecology (“Ecology”) created a TMDL for fecal coliform, total
19 suspended solids, and temperature within Hangman Creek. As required by the CWA, Ecology
20 submitted the Hangman Creek TMDL to the Environmental Protection Agency (“EPA”) for
21 approval.

23 6. The EPA approved the Hangman Creek TMDL on September 29, 2009. However,
24 the EPA ignored the CWA and EPA’s own long-standing regulations and policies that guide
25 approvals of TMDLs and provided no explanation why it was deviating from its policies.
26 Specifically, the EPA ignored its own policies that require adequate reasonable assurances that

1 nonpoint sources of pollution will be reduced in impaired waters polluted by both point sources
2 and nonpoint sources of pollution. *See* Guidance for Water Quality-Based Decisions: the TMDL
3 Process, EPA440/4-91-001 (April 1991) (“In order to allocate loads among both point and
4 nonpoint sources, there must be reasonable assurances that nonpoint source loads will in fact be
5 achieved. Where there are not reasonable assurances, under the CWA, the entire load reductions
6 must be assigned to point sources.”); New Policies for Establishing and Implementing Total
7 Maximum Daily Loads (1997) (“[W]here any wasteload allocation to a point source is increased
8 based on an assumption that loads from nonpoint sources will be reduced, the State must provide
9 ‘reasonable assurances’ that the nonpoint source load allocations will in fact be achieved.”);
10 Guidelines for Reviewing TMDLs under Existing Regulations Issued in 1992 (2002) (“When a
11 TMDL is developed for waters impaired by both point and nonpoint sources, and the WLA is
12 based on an assumption that nonpoint source load reductions will occur, EPA’s 1991 TMDL
13 Guidance states that the TMDL should provide reasonable assurances that nonpoint source
14 control measures will achieve expected load reductions in order for the TMDL to be
15 approvable.”). The EPA also ignored CWA requirements to establish an adequate margin of
16 safety in the TMDL and to establish loads at a level to implement applicable water quality
17 standards.
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21 7. This action challenges the EPA’s decision to approve a TMDL for the Hangman
22 Creek, ordering defendants to comply with the requirements of the Clean Water Act, 33 U.S.C. §
23 1251 *et seq.* and the Administrative Procedure Act (“APA”), 5 U.S.C. § 701 *et seq.* The decision
24 approving the TMDL was arbitrary and capricious, an abuse of discretion, and/or otherwise not in
25 accordance with law.
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1 relief prayed for herein is granted, Plaintiff and its members will suffer ongoing and irreparable
2 harm and injury to their interests.

3 17. The injures to Plaintiff Spokane Riverkeeper are likely to be redressed by a
4 favorable decision of this Court because an order granting the relief requested in this Complaint
5 would ensure that the TMDL is in compliance with federal law and not result continued degraded
6 water quality of Hangman Creek and the Spokane River.
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8 V. STATUTORY AND REGULATORY FRAMEWORK

9 18. Total maximum daily loads (“TMDLs”) are the backstop of a detailed statutory
10 and regulatory framework under the CWA that provides the last regulatory resort of improving
11 water quality.

12 A. Overview of Clean Water Act Regulation

13 19. The CWA provides a series of actions that the regulatory body can take to improve
14 water quality standards: (i) establishment of water quality standards by the states and approved
15 by EPA under Section 303(c); (ii) issuance of National Pollutant Discharge Elimination System
16 (“NPDES”) permits to point sources of pollution with pollutant limits designed to meet
17 applicable water quality standards; (iii) identification by the states of certain waters that are not
18 meeting water quality standards under Section 303(d) (commonly called “impaired” waters); and
19 (iv) calculation by the states or EPA of a total maximum daily pollutant load—a TMDL—for
20 such impaired waters under Section 303(d).
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23 20. The CWA divides sources of pollutants to waterways into two major categories:
24 “point sources” and “nonpoint sources.” “Point source” is defined at 33 U.S.C. § 1362 to mean
25 “any discernible, confined, and discrete conveyance including...any pipe, ditch, channel, tunnel,
26 [or] conduit...from which pollutants are or may be discharged.” The term also includes those

1 livestock and poultry operations that qualify under EPA regulations as a “concentrated animal
2 feeding operation.” Congress specifically excluded “agricultural stormwater discharges and
3 return flows from irrigated agriculture” from the definition of point source. *Id.* Nonpoint sources
4 are not defined at 33 U.S.C. § 1362 and are not regulated under the NPDES program. However,
5 Ecology has the power to regulate nonpoint sources of pollution under the Washington State
6 Water Pollution Control Act. *See Lemire v. Department of Ecology*, 178 Wn.2d 227 (2013).

8 21. All pollutant discharges to waters of the United States from point sources are
9 prohibited under the CWA unless otherwise specifically authorized under separate sections of the
10 CWA. One primary way in which discharges are authorized is under a Section 402 permit,
11 known as a NPDES permit. *Id.* at § 1342. The NPDES permitting system imposes limits on such
12 discharges based on the application of technology, or the need to achieve water quality standards,
13 whichever is more stringent. *Id.* §§ 1311(b), 1312. States can assume primary responsibility for
14 administration and enforcement of the NPDES permitting program if the state’s program is
15 approved by the EPA. *Id.* § § 1342(b), 1342(c)(1). Otherwise, EPA is responsible for the
16 NPDES permitting system in that particular state. *Id.* § 1342(a). EPA retains authority to object
17 to a particular NPDES permit that authorizes discharges to waters within the statute’s jurisdiction.
18 *Id.* § 1342(d); 40 C.F.R. § 123.44.

20 **B. Development of Water Quality Standards**

21 22. Each state must designate one or more uses for its water bodies, and then must
22 develop water quality criteria for each water body necessary to protect these designated uses,
23 taking into account the water body’s use and value for public water supplies, propagation of fish
24 and wildlife, recreational, agricultural, and industrial purposes, use for navigation, and other
25 purposes. 33 U.S.C. § 1313(c)(2)(A); 40 C.F.R. §§ 131.10 and 131.11. These criteria can be
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1 expressed for a pollutant as specific numeric quantities or as general narrative statements, but in
2 either case, must be based on “sound scientific rationale.” 40 C.F.R. § 131.11(a). The standards
3 adopted by the states are subject to EPA review and approval to ensure that they are consistent
4 with CWA requirements. 33 U.S.C. § 1313(c)(3)-(4). If the EPA determines that the water
5 quality standards promulgated by the states are not consistent with the CWA, then the EPA can
6 disapprove the standards and promulgate its own water quality standards for the state. *Id.* §
7 1313(c)(3).
8

9 **C. Development of TMDLs for Impaired Waters**

10 23. Section 303(d) of the CWA directs each state to first identify those waters within
11 its boundaries for which technology-based NPDES permit limitations are not stringent enough to
12 implement the applicable water quality standards, and then each state must establish a priority
13 ranking of these waters, taking into account the severity of the pollution and the waters’
14 designated uses. 33 U.S.C. § 1313(d)(1)(A). The state must establish a TMDL for each listed
15 water (commonly referred to as “impaired” waters) for pollutants identified by EPA as suitable
16 for such calculation. *Id.* § 1313(d)(1)(C). This TMDL must be established “at a level necessary
17 to implement the applicable water quality standards,” accounting for seasonal variations and a
18 margin of safety. *Id.*
19

20 24. A TMDL is the measure of the total amount of pollutant that can be “loaded” into
21 a waterbody and still meet water quality standards. From this total number, portions of the total
22 load are allocated to individual sources of pollution. Under EPA regulations, a TMDL is the sum
23 of both “wasteload allocations” (“WLAs”)—the portion of the receiving water loading capacity
24 allocated to each of its existing or future point sources of pollution—and “load allocations”
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1 (“LAs”)—the loading capacity portions attributed to the water body’s “existing or future
2 nonpoint sources of pollution or to natural background sources.” 40 C.F.R. § 130.2.

3 **D. The Elements of a TMDL**

4 **25.** Waters that are polluted by point and nonpoint sources of pollution have an
5 additional requirement under EPA policy. After the necessary LAs and WLAs have been
6 allocated to sources of pollutants, EPA policy requires a TMDL to establish reasonable
7 assurances that WLAs for nonpoint sources of pollution will be achieved in order to not allocate
8 all reductions to LAs from point sources of pollution. *See* 2002 “Guidelines for Reviewing
9 TMDLs under Existing Regulations Issued in 1992.”
10

11 **VI. FACTUAL BACKGROUND**
12 **The Hangman Creek Watershed**

13 **26.** Hangman Creek is a trans-boundary watershed that begins in the foothills of the
14 Rocky Mountains of northern Idaho, extends over the southeastern portion of Spokane County,
15 Washington, and terminates as tributary of the Spokane River. The entire Hangman Creek
16 watershed encompasses an area of over 689 square miles.
17

18 **27.** The Hangman Creek watershed is dominated by dryland farming. Wheat, cattle,
19 hogs, and other agriculture is common throughout the watershed. The Hangman Creek watershed
20 has experienced an increase in urbanization and a change in land use practices, especially near its
21 terminus with the Spokane River, but the farming is the predominant land use throughout the
22 watershed.
23

24 **28.** Poor farming practices have left Hangman Creek in dire ecological health. Cattle
25 and other livestock are often allowed to graze directly next to, and sometimes in, the water.
26 Farmlands used for wheat production are often tilled and left to lie fallow, which results in large

1 amounts of soil being swept away into Hangman Creek. Fields are often tilled and planted right
2 up to the edge of the creek with no riparian buffers. This results in higher water temperatures due
3 to a lack of shade. The lack of riparian buffers also cause erosion of streambanks, furthering
4 contributing to the poor water quality. Overall, the ecological health of the stream has greatly
5 suffered thanks to poor farming practices throughout the watershed.
6

7 The Hangman Creek TMDL

8 29. In 1998, Ecology identified several parts of Hangman Creek as impaired for not
9 meeting state water quality standards for fecal coliform, dissolved oxygen, pH, and temperature.
10 Parts of Hangman Creek have remained on the impaired waters list ever since then.

11 30. In response to Hangman Creek's inclusion on the impaired waters list, Ecology
12 began developing a TMDL for three pollutants that have plagued the waterbody: fecal coliform,
13 turbidity, and temperature.
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15 31. Fecal coliform is a reliable indicator of the presence of disease-carrying organisms
16 which can pose a direct threat to human health. When fecal coliform bacteria are present in high
17 numbers in a water sample, it means that the water has received fecal matter from one source or
18 another. Many areas in the Hangman Creek watershed have fecal coliform counts high enough to
19 pose a health risk to swimmers, fisherman, and others. The majority of fecal coliform is
20 produced by livestock, but wastewater treatment plants, stormwater discharges, and leaking septic
21 tanks can also contribute fecal coliform to the waterbody.
22

23 32. Water temperature is another important marker of ecological health in a stream.
24 Elevated temperature typically decreases the level of dissolved oxygen of water. This can
25 negatively impact aquatic wildlife by literally asphyxiating them due to a lack of oxygen. The
26 lack of oxygen caused by warmer water also can lead to anaerobic conditions, which lead to

1 increased bacteria levels when there is an ample food supply. In the Hangman Creek watershed,
2 a lack of shade is the main contributing factor to increased water temperature. Farmlands are
3 often tilled to the very edge of the water and do not leave a riparian buffer, such as willows or
4 other shade-producing trees. The cumulative result is a waterbody that is simply too warm to be
5 healthy.

6
7 33. Turbidity refers the measure of total suspended solids (“TSS”) present in water.
8 The solids can include a wide variety of material, such as silt, decaying plant and animal matter,
9 industrial wastes, and sewage. In Hangman Creek, the main cause of turbidity is silt caused by
10 soil runoff from farmlands. Since 1939, total erosion on Palouse region cropland has averaged
11 360 tons per acre—more than 9 tons per acre per year. Streams, such as Hangman Creek, are
12 forced to serve as the conduits for all of the eroded soil. High TSS can block light from reaching
13 submerged vegetation, leading to a decrease in vegetation growth and a decrease in dissolved
14 oxygen produced. Increased sediment can also clog fish gills, reduce growth rates, decrease
15 resistance to disease, and prevent egg and larval development. Once suspended solids settle to
16 the bottom of a waterbody, the solids can smother the eggs of fish and aquatic insects. Finally,
17 the highly turbid water can severely hamper the aesthetic quality of the waterbody by creating
18 cloudy water. Hangman Creek suffers from high turbidity, especially during storm events which
19 wash soils from farmlands into the water.
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22 34. After evaluating the Hangman Creek watershed, Ecology developed a TMDL
23 which set WLAs and LAs for fecal coliform, temperature, and turbidity through the Hangman
24 Creek watershed in Washington. The TMDL covered 446 square miles of the 689 square miles
25 of the total watershed—the remaining 243 square miles of the watershed occurring in Idaho.
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1 35. Hangman Creek and its tributaries have not been given any specific use
2 designations in the water quality standards. Under Washington Administrative Code 173-201A-
3 600, default water quality standards apply. The designated uses to be protected are : Salmonid
4 spawning rearing, and migration; primary contact recreation; domestic, industrial, and
5 agricultural water supply; stock watering; wildlife habitat; harvesting; commerce, and navigation;
6 boating; and aesthetic values.
7

8 36. The TMDL focuses on water quality criteria derived from the beneficial uses of
9 recreation and aquatic habitat. The TMDL does not derive water quality criteria from the
10 beneficial use of aesthetic values, despite the fact that Hangman Creek’s aesthetic value is often
11 impaired due to high turbidity levels.
12

13 37. The TMDL identifies the amount of reductions in pollutants necessary from
14 WLAs or LAs necessary to meet water quality standards. This is accomplished by identifying
15 certain sites, such as the mouths of tributaries to Hangman Creek or Hangman Creek where it
16 intersects certain roads, and then identifying the reduction in a pollutant at a certain site necessary
17 to meet water quality standards. For example, Ecology identified that Hangman Creek at Keevy
18 Road would need a 78% reduction in fecal coliform LAs in order to achieve the water quality
19 standards for fecal coliform in the watershed. Ecology determined that some sites needed drastic
20 reductions in LAs in order to meet water quality standards—up to 92% in some cases.
21

22 38. Ecology did not require any further reductions in WLAs from six municipal
23 wastewater treatment plants in the watershed, except for a reduction in the fecal coliform WLA
24 for the Tekoa wastewater treatment plant. Ecology determined that the existing limits on
25 pollutants established in each treatment plants NPDES permit was adequate to meet water quality
26 standards.

1 Hangman Creek TMDL is essentially a list of organizations that might be able to provide
2 assistance implementing best management practices for nonpoint sources of pollution at
3 unspecified locations in the watershed at some unspecified point in the future.

4 43. The “Reasonable Assurances” section of the Hangman Creek TMDL does not
5 include reasonable assurances of LA reductions that are enforceable, transparent, not voluntary,
6 or currently funded. In effect, the “reasonable assurances” identified in the Hangman Creek
7 TMDL are meaningless.

9 44. Without adequate reasonable assurances, the loads determined within the
10 Hangman Creek TMDL will not all implement applicable water quality standards.

11 45. The CWA requires each TMDL to employ a “margin of safety which takes into
12 account any lack of knowledge concerning the relationship between effluent limitations and water
13 quality.” 33 U.S.C. 1313(d)(1)(C). Ecology used an “implicit” margin of safety within the
14 Hangman Creek TMDL. An explicit margin of safety sets aside a portion of the load capacity
15 specifically for the margin of safety, but an implicit margin of safety relies upon conservative
16 assumptions in the use of data and the application of models.

18 46. The implicit margin of safety in the Hangman Creek TMDL relies upon the
19 assumption that reductions in LAs will actually occur and that the WLAs and LAs are set a levels
20 that will implement water quality standards. Unfortunately, both of these assumptions are
21 incorrect and the margin of safety established in the TMDL is not adequate.

23 47. Despite these inconsistencies with the CWA and EPA regulations and policy, the
24 EPA approved the Hangman Creek TMDL on September 29, 2009. EPA did not give any
25 explanation why it was deviating from its well established policies.

1 48. Since the adoption of the TMDL, Hangman Creek has continued to suffer
2 degraded water quality. Segments of the stream remain on the impaired waters list established by
3 Ecology. Poor agricultural practices remain the main source of pollutants in the Hangman Creek
4 watershed.

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6 **VII. FIRST CLAIM FOR RELIEF**
7 **EPA’S APPROVAL OF THE HANGMAN CREEK TMDL**
8 **IS ARBITRARY AND CAPRICIOUS**

9 49. The foregoing paragraphs are realleged and incorporated by reference.

10 50. The Hangman Creek TMDL assigns WLAs to point sources of pollution in the
11 TMDL that are based on the assumption that LAs from nonpoint sources of pollution will be
12 reduced.

13 51. The Hangman Creek TMDL does not contain adequate reasonable assurances of
14 LA reduction.

15 52. The Hangman Creek TMDL does not contain an adequate margin of safety.

16 53. Despite the lack of reasonable assurances, EPA approved the Hangman Creek
17 TMDL without any explanation or justification of why its own policy was not applicable.

18 54. Without adequate reasonable assurances, EPA has approved a TMDL with WLAs
19 and LAs at levels that will not implement applicable water quality standards, in violation of 33
20 U.S.C. § 1313(d)(1)(C).

21 55. For these reasons, EPA’s approval of the Hangman Creek TMDL is arbitrary and
22 capricious, an abuse of discretion, or otherwise not in accordance with law in violation of 5
23 U.S.C. § 706.

24 56. Plaintiffs are entitled to their reasonable fees, costs, and expenses associated with
25 this litigation pursuant to the EAJA, 28 U.S.C. § 2412.
26

1 **VIII. SECOND CLAIM FOR RELIEF**
2 **THE TMDL VIOLATES THE CLEAN WATER ACT AND EPA REGULATIONS**

3 57. The foregoing paragraphs are realleged and incorporated by reference.

4 58. EPA's approval of the Hangman Creek TMDL is arbitrary and capricious, an
5 abuse of discretion, or otherwise not in accordance with law in violation of 5 U.S.C. § 706
6 because EPA approved a TMDL that violates the CWA and its own regulations.

7 59. The Hangman Creek TMDL does not address all applicable water quality
8 standards, in violation of 33 U.S.C. § 1313(d)(1)(C). Specifically, the Hangman Creek TMDL
9 does not address the beneficial designated use of aesthetic values.

10 60. For these reasons, EPA's approval of the Hangman Creek TMDL is arbitrary and
11 capricious, an abuse of discretion, or otherwise not in accordance with law in violation of 5
12 U.S.C. § 706.

13 61. Plaintiffs are entitled to their reasonable fees, costs, and expenses associated with
14 this litigation pursuant to the EAJA, 28 U.S.C. § 2412.

15 **IX. PRAYER FOR RELIEF**

16 WHEREFORE, Plaintiff Spokane Riverkeeper respectfully requests this Court to enter
17 judgment in its favor, and:
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19 1. Declare that the Hangman Creek TMDL is contrary to federal law, including the
20 Clean Water Act, or is otherwise arbitrary, capricious, or an abuse of discretion.

21 2. Vacate the Hangman Creek TMDL.

22 3. Enjoin and require EPA to issue a TMDL that conforms to the requirements of the
23 Clean Water Act and Administrative Procedure Act as ordered by this Court.
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4. Award the Plaintiff their costs, expenses, expert witness fees, and reasonable attorneys' fees associated with this litigation pursuant to the Equal Access to Justice Act, Clean Water Act, and all other applicable authorities; and

5. Grant Plaintiff Spokane Riverkeeper such other relief as may be necessary and appropriate or as the Court deems just and proper.

Dated this _____ day of September, 2015.

Respectfully submitted,

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