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The Wall that Trumps Environmental Law: A Review of the Environmental and Legal Implications of the U.S.-Mexico Border Wall

Olivia Merritt

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I. HOW THINGS WENT SOUTH: A BRIEF INTRODUCTION TO THE SOUTHERN BORDER WALL CONTROVERSY

On January 25, 2017, just five days after his inauguration, U.S. President Donald Trump issued an executive order to expand the U.S.-Mexico border wall.¹ The extension would add to the 650 miles of existing border wall between the two countries, which currently runs through parts of California, New Mexico, Arizona, and Texas.² The executive order came as a product of the Trump Administration’s promise to end illegal immigration and drug trafficking at the United States’s southern border.³ Although the wall’s effectiveness at accomplishing these goals has been a sensational topic of debate across the nation, the wall’s environmental impact receives much less attention.⁴

Since its construction during the Clinton Administration, the border wall has had a tremendous effect on the ecosystems that call the borderlands home.⁵ The nearly 2,000-mile-long border cap-

⁵ Alisa Cromer, Brief History: A Timeline of the U.S. Border Wall, WORLDSTIR (Jan. 28, 2017), http://www.worldstir.com/history-us-mexico-border-wall/ (discussing Clinton Administration’s efforts to construct physical border between United States and Mexico); see also Meagher, supra note 4 (discussing current and potential impact border wall construction has on surrounding ecosystems).
tures some of the most biologically diverse areas in the nation. The borderlands also include many national refuges, environmental conservation areas, tribal lands, and private property. The border wall’s extension into the Lower Rio Grande Valley of Texas alone would result in construction on a “federal wildlife refuge, a state park, Native American grave sites, and the National Butterfly Center.” In Arizona, the current border wall runs through three million acres of protected public land and converging mountainous ecosystems, which are home to a plethora of wildlife. Bioscience conducted an expansive study – signed and supported by over 2,500 scientists from forty-three different countries – that estimates the border wall impacts the ecosystems of over 1,500 animal and plant species, including sixty-two species on the critically endangered or vulnerable list.

Since the beginning of the wall’s construction, environmental law agencies have raised numerous red flags in response to the executive and legislative branch granting its extension. A legal analysis of the construction project reveals over forty federal laws must be waived to build the massive artificial border. These laws include some of the most significant environmental legal protections, namely the Endangered Species Act, the Clean Water Act, the Na-
national Environmental Policy Act (NEPA), and the National Historic Preservation Act.\textsuperscript{13}

Although the wall is extensively intertwined with state-specific environmental laws, its existence and continued extension technically remains within the bounds of federal law.\textsuperscript{14} Section 102 of the Real ID Act of 2005 grants the Department of Homeland Security (DHS) the power to waive any federal, state, or local law to build barriers at the border.\textsuperscript{15} This provision allowed President Bush to pass the Secure Fence Act of 2006 and begin constructing 700 miles of the border wall.\textsuperscript{16} The Real ID Act, also encompassing the Secure Fence Act, has allowed the DHS to issue eight waivers in four U.S. border states since 2005.\textsuperscript{17} Three of the eight waivers have been granted to the Trump Administration.\textsuperscript{18}

President Trump’s dedication to border security, however, comes with a price.\textsuperscript{19} In 2018, Congress budgeted $1.3 billion to, inter alia, expand the border wall another thirty-three miles.\textsuperscript{20} Again in 2019, the President’s border wall agenda was a national government financial concern.\textsuperscript{21} The wall’s budget was an issue of such contention that it forced the government into a shutdown lasting from December 22, 2018 until January 25, 2019.\textsuperscript{22} The shut-

\textsuperscript{13} For a full list of environmental laws to be waived for construction of border wall, see Border Wall Environmental Impacts, SIERRA CLUB, https://content.sierraclub.org/grassrootsnetwork/sites/content.sierraclub.org.activistnetwork/files/teams/documents/border%20wall%20enviro%20handout.pdf (last visited Sept. 26, 2020).


\textsuperscript{15} See Tresky, supra note 1 (discussing specific provision within Real ID Act that allows executive branch to secure border with artificial barriers).


\textsuperscript{17} See Peters ET AL., supra note 10, at 740 (mentioning number of waivers granted to DHS since 2005).

\textsuperscript{18} See id. (discussing number of waivers granted to President Trump).

\textsuperscript{19} See Barclay & Frostenson, supra note 8 (explaining projected budget for Trump’s proposed wall).

\textsuperscript{20} Id. (reviewing past budget granted by Congress to expand border wall).

\textsuperscript{21} See id. (highlighting budget concerns for building border wall).

down was a reaction to President Trump’s unwavering demand for another $5 billion to complete 215 miles of border wall.  

The President’s commitment to build the border wall despite the government shutdown encouraged him to take another legislative route. On February 15, 2019, the President triggered the National Emergencies Act by declaring that the state of the southern border was a national emergency. President Trump’s decision to harness his executive power and invoke the National Emergencies Act had substantial implications for the wall’s budget. The President’s declaration of a state of emergency at the border allowed him to seize money from other Congressionally-approved funds for projects such as military spending.

Since President Trump’s inauguration, strong opponents of the border wall have filed multiple lawsuits challenging the legality of the wall’s construction. Environmental groups – including the Sierra Club, the Center for Biological Diversity, and the Defenders of Wildlife – acted as parties challenging the Trump Administration’s border wall agenda. Lawsuits filed by environmental groups generally emphasized arguments grounded in the abuse of executive power, the violation of multiple environmental laws, and the illegal use of government funds.

23. See Barclay & Frostenson, supra note 8 (explaining presidential demand for Congress to allocate five billion dollars towards border wall construction).
25. See id. (reasoning President’s decision to declare state of emergency at border is to increase budget for border wall project).
26. See id. (describing effect of declaring national emergency on congressional allocation of funds).
29. Id. (listing environmental groups with pending lawsuits against President Trump and Department of Homeland Security).
30. See id. (highlighting different arguments used by environmental organization affected by wall construction).
II. THE LEGISLATIVE BUILDING BLOCKS AT THE WALL’S FOUNDATION

The construction of artificial barriers at the U.S.-Mexico border dates back to the early 1900s, but building barriers as a solution to illegal immigration became paramount during the Clinton Administration. In 1996, President Clinton signed the Illegal Immigration Reform and Immigration Responsibility Act (IIRAIRA) to address illegal immigration in accordance with his “prevention by deterrence” agenda. The IIRAIRA imposed harsher criminal penalties for illegal immigration by banning illegal immigrants from re-entering the United States for up to ten years before allowing them to apply for a waiver. The IIRAIRA’s passing kickstarted a chain of legislative reaction to the crisis at the border. To address issues of border security in Southern California, President Clinton ordered twenty-four miles of fencing to be built in San Diego from 1994 to 1999. While the fence reduced some border security concerns felt by residents of San Diego County, immigrants began flooding to other areas, such as the neighboring Imperial County, where “illegal immigration apprehensions increased by 500 percent.”

Following the September 2001 terrorist attacks, the government’s elevated concern for national security encouraged President Bush to sign the Real ID Act of 2005. The Act empowered the DHS to take proactive measures to secure the nation’s southern border. Section 102 of the Real ID Act gives the DHS power to

32. See US-Mexico Border Wall, supra note 16 (emphasizing deterrence policy used by Clinton administration to tackle illegal immigration at south-western border).
34. See Cromer, supra note 5 (discussing impact of IIRAIRA on future with U.S.-Mexico border legislation).
35. See Guerrero, supra note 31 (explaining measures taken by President Clinton to construct artificial barrier between U.S. and Mexico in California).
36. Id. (stating impact physical wall had on illegal immigration during Clinton administration).
37. See US-Mexico Border Wall, supra note 16 (emphasizing impact of 9/11 terrorist attack on Bush’s immigration policy at border).
38. Id. (discussing Real ID Act’s significance regarding federal law and regulation to secure border).
waive laws as necessary to secure the border.\textsuperscript{39} Subsequently, President Bush signed the Secure Fence Act of 2006 to construct fencing at the border, using the Real ID Act to waive numerous federal and state environmental laws and regulations.\textsuperscript{40} The Secure Fence Act “mandate[d] the construction of about 700 miles of border walls and other barriers”, including a virtual wall across the entire 2,000 mile border.\textsuperscript{41}

Following the border wall’s extension in 2006, numerous environmental agencies voiced concern that encouraged the DHS to take protective environmental measures.\textsuperscript{42} The DHS responded to these concerns by signing a Memorandum of Understanding with the Department of the Interior and the Department of Agriculture (the Memorandum).\textsuperscript{43} The Memorandum, entitled “Cooperative National Security and Counterterrorism Efforts on Federal Lands Along the United States’ Borders,” outlined the precautionary efforts the DHS would take to reduce environmental impact at the border.\textsuperscript{44} Although the Memorandum symbolized the DHS’s commitment to implement environmentally-friendly procedures, the recent efforts to expand the wall have encouraged activists to expose the indelible environmental consequences of the border wall and its potential to cause more environmental havoc.\textsuperscript{45}

During the 2016 election, security concerns at the U.S.-Mexico border prompted Trump’s promise, if elected, to build a substantial artificial border between the two countries.\textsuperscript{46} Following his inaugu-

\textsuperscript{39} See Tresky, \textit{supra} note 1 (identifying specific section responsible for granting DHS permission to waive laws in furtherance of constructing border wall).

\textsuperscript{40} See Roche, \textit{supra} note 14 (discussing legal implications of Real ID Act resulting in signing Secure Fence Act of 2006 into law).

\textsuperscript{41} See Cromer, \textit{supra} note 5 (emphasizing Secure Fence Act’s purpose in furthering artificial barrier construction along southern border).

\textsuperscript{42} See Tresky, \textit{supra} note 1 (discussing response to Secure Fence Act of 2006).


\textsuperscript{44} Id. at 1 (listing title of Memorandum).

\textsuperscript{45} Jimmy Tobias, \textit{The Little-Known Law That the Trump Administration Is Using to Build a Border Wall}, P.	extit{AC. STANDARD} (Jan. 21, 2019), https://psmag.com/environment/the-little-known-law-that-the-trump-administration-is-using-to-build-a-border-wall (discussing National Resources Committee’s efforts to join environmentalists in fight against border wall).

\textsuperscript{46} See Cromer, \textit{supra} note 5 (emphasizing Trump’s presidential campaign strategy to rally support for constructing border wall).
ration, President Trump invoked his executive power to mandate expansion and improvements to the existing wall. In his executive order, the President cited the Immigration and Nationality Act, the Secure Fence Act, and the IIRIRA as sources of his authority. When President Trump declared a national emergency along the border, he gained directive power to respond quickly to the “national crisis.” Consequently, the President had the power to acquire funds initially committed to other government projects and redirect them toward alleviating the emergency situation. The President’s national emergency declaration triggered instant backlash from environmentalists who raised numerous constitutional concerns about executive power.

At a press conference, President Trump justified declaring a national emergency by identifying the border as a source of “drugs and criminals coming into our country.” The President’s strategy behind declaring a state of emergency stemmed from his disapproval of Congress’s budget for wall construction. By declaring a state of emergency, President Trump was granted control of military funds and redirected them toward building the wall, a project he believes is an effective response to the nation’s illegal immigration crisis. Multiple federal statutes grant the President power to direct military funds toward projects dedicated to a crisis, such as the purported border wall crisis. Funds can be pulled from military accounts to fund the wall.

48. Id. (listing President Trump’s stated legal authority for granting executive order concerning border wall).
50. Id. (stating Trump’s funding strategy for border wall).
52. See Baker, supra note 24 (emphasizing President’s reasoning for declaring state of emergency at border).
53. Id. (suggesting emergency declaration correlated with Congress’s disapproval of original wall budget).
54. Id. (explaining consequences of national emergency declaration on wall’s budget).
tary construction projects, which helped increase the Congressionally-approved border wall budget from $5.7 billion to $8 billion.\textsuperscript{56} The newly acquired funds will augment the time and resources available to structure hundreds of miles of new border wall.\textsuperscript{57}

III. A HISTORY OF HARM: THE DOCUMENTED ENVIRONMENTAL IMPACT OF THE EXISTING BORDER WALL

From the beginning of construction, environmental activists and agencies have documented the wall’s harmful effects on surrounding ecosystems.\textsuperscript{58} The Sierra Club, a grassroots environmental organization, reported the current wall causes “[d]isturbance, displacement and mortality to wildlife from artificial night lighting, increased vehicular access, and walls shifting migrant traffic patterns and enforcement activities.”\textsuperscript{59} The wall’s existence also has severe implications for neighboring communities, including wildlife refuges, conservation areas, parks, native communities, and protected land.\textsuperscript{60}

The wall has severed property dedicated to the conservation and maintenance of borderland ecosystems.\textsuperscript{61} Public land sitting on the border, such as the Organ Pipe Cactus National Monument in Arizona and the Rio Bosque Wetland Parks in Texas, are negatively impacted by the physical barrier.\textsuperscript{62} The wall further accelerates erosion and impedes animals from intermingling and traveling to vital food and water sources.\textsuperscript{63}

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\textsuperscript{56} See Baker, supra note 24 (discussing military programs from which funds can be redirected towards wall construction).

\textsuperscript{57} Id. (stating consequences increasing funding will have on construction timeline).

\textsuperscript{58} Damage Caused by the Border Wall, supra note 7 (listing historical environmental impact of wall on protected borderlands).

\textsuperscript{59} Id. at 1 (stating current wall’s impact generally).

\textsuperscript{60} Id. (noting most impacted lands which consist of protected wildlife refuges and conservation areas).

\textsuperscript{61} Id. at 2 (documenting border’s impact on dividing borderland communities).

\textsuperscript{62} Id. at 1-2 (listing protected areas that have experienced negative impacts of wall).

\textsuperscript{63} Damage Caused by the Border Wall, supra note 7, at 1 (discussing impacts on wildlife access to natural resources).
A. Impact on Wildlife and Surrounding Ecosystems

While the wall’s original purpose was to prevent human migration, it also affects animal migration.64 The constructed barrier severed many animal habitats, some of which are home to animals listed on the Endangered Species List.65 Species identified as being the most affected by the border wall are those with small populations that range over a specific radius of land.66 The Cabeza Prieta National Wildlife Refuge in Arizona and the El Pinacate area in Mexico are connected along the border.67 Before construction, species such as the Sonoran pronghorn, a relative of the antelope family, were able to freely move between both protected lands.68 Since the wall’s construction, however, species’ inability to cross the border area has impeded their access to food and water on either side.69 In Texas, the wall acts as a barrier to wildlife seeking food and water from the Rio Grande River.70 Similarly, the wall currently divides the Rio Bosque Wetlands Park in El Paso from rivers and floodways that are essential to wildlife and wetlands in the area.71

B. Damage Caused by Harsh Weather Conditions Exacerbated by the Wall

In addition to harming animals’ migratory patterns, the wall burdens surrounding neighborhoods with serious consequences in certain weather conditions.72 In the summer of 2008, the Mexican border town of Nogales, which is just south of Arizona, experienced a monsoon rain storm.73 During the storm, the concrete border prevented the natural flow of rainwater, causing massive flooding.74

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64. *Border Wall Environmental Impacts*, *supra* note 13 at 1 (stating consequences to animal migration).
65. *Id.* (emphasizing presence of endangered species living on border path).
67. *Id.* (discussing specific locations wall will impact).
68. *Id.* (explaining impact on mobility of native borderland species).
69. *See* Worland, *supra* note 3 (discussing importance of maintaining species’ mobility).
71. *See* Damage Caused by the Border Wall, *supra* note 7 (listing additional waterways that will be impacted by construction).
72. *Id.* (noting wall’s historical impact on surrounding communities).
73. *Id.* (discussing event that revealed consequences of improper wall construction).
In the flood’s aftermath, Mexican officials from the International Boundary and Water Commission attributed the damage to the wall’s construction.75 Officials discovered a portion of the wall built in a storm-water tunnel beneath the city, which prevented proper drainage during the storm.76 A National Park Service report found that the wall “did not meet hydrologic performance standards.”77 The flooding killed two civilians and caused an estimated eight million dollars’ worth of damage.78

In January 2020, a portion of the wall along the California-Mexico border collapsed.79 The newly renovated wall failed to withstand high winds and collapsed onto the Mexican side of the California-Mexico border.80 Having only recently been installed, the collapsed wall’s cement was still curing.81 The wall’s collapse set back the construction schedule while local officials in Mexico cleaned up the impacted area.82 Conservationists are concerned about the wall’s potential to cause environmental damage, specifically during times of intense weather conditions, such as flooding and high winds.83 Environmentalists have also noted that when the wall experiences heavy floods and natural damage, the successive debris could contaminate and debilitate surrounding ecosystems.84

75. Id. (mentioning Mexican government officials’ response to wall’s contribution to flood damage).
76. Id. (discussing wall infrastructure that caused flooding).
77. See Damage Caused by the Border Wall, supra note 7 at 1 (discussing National Park Service’s acknowledgement of wall’s contribution to Nogales flood).
78. Id. at 2 (discussing consequence of flooding on surrounding community including amount in damage and known casualties).
80. Id. (suggesting wall’s ability to fall in high winds could present more complications as construction continues).
81. Id. (detailing wall’s vulnerability to local weather conditions).
82. Id. (suggesting severe weather can delay construction).
83. Barclay & Frostenson, supra note 8 (highlighting potential impacts of construction on surrounding communities due to hazardous weather conditions).
84. Id. (emphasizing wall’s potential to cause flooding).
IV. The Barrier to a Healthy Ecosystem: The Projected Environmental Impacts of the New Border Wall Construction

From the start of Trump’s political campaign to his presidential declaration of a national emergency at the border, the consequences of border wall expansion have been at the forefront of conservationists’ agendas. Environmental scientists and activists predict numerous consequences of extending the border wall along the 2,000-mile border. Ecological impacts include harm to animal habitats, the abuse of natural resources during construction such as increased water usage, and the elevated CO2 omissions when producing concrete to build the wall. In addition, the extension of the wall will continue to divide and degrade wildlife refuges and parks.

A. Projected Impact Wildlife and Vegetation

The borderlands consist of some of the most biodiverse regions in the nation. The Coronado National Forest, located just north of the Arizona-Mexico border, is the most ecologically diverse forest in the nation. Additionally, the Lower Rio Grande Valley attracts numerous terrestrial and aquatic animals, plants, and insects. Wildlife in the borderlands consists of a wide range of mammal, fish, bird, and plant species, many of which are listed as endangered. Over 1,500 native animal and plant species, sixty-two of which are either endangered or vulnerable, may lose their


86. Tobias, supra note 45 (referencing environmentalist projections of potential ecological harm to borderlands); see also Meagher, supra note 4 (listing environmental consequences of wall’s construction).

87. See Meagher, supra note 4 (listing environmental consequences of wall construction).

88. See Skolnick, supra note 12 (emphasizing construction’s perpetuation of environmental harm).

89. Id. (Illustrating biodiversity of borderlands).

90. Barclay & Frostenson, supra note 8 (mentioning specific region in Arizona where biodiversity remains abundant).

91. Id. (Emphasizing diversity of wildlife in borderlands).

92. See Owens, supra note 85 (listing wide range of species native to borderland, many of which are endangered).
harm to their genetic diversity because of the border wall’s construction.93

Lack of genetic diversity among animal species could be another consequence of the artificial severance of the borderlands.94 One study evaluating the effects of the border wall on animal migratory patterns found that nearly forty-five species will be impacted by restriction in movement.95 Scientists researched the wall’s impacts on low-flying and land animals that require “transboundary” movement.96 In Arizona, both the ferruginous pygmy-owl, a low-flying, endangered bird, and the desert bighorn sheep, an especially mobile species, rely on transboundary movement to connect their “small and fragmented” populations.97

Conservationists are especially concerned about the wall’s impact on some of the nation’s most at-risk animal populations, including Mexican gray wolves, jaguars, and ocelots.98 Confining these populations to certain areas without the ability to move freely and access other members of their population could harm the existence of each species as a whole.99 For instance, the black bear population living in Big Bend National Park in West Texas would be restricted from interacting with the Mexican black bear population, thereby decreasing mating pool sizes and jeopardizing the black bear population altogether.100 Similarly, a wall built in Northern Mexico through the Northern Jaguar Reserve will disconnect the populations of jaguar existing along the border.101 Populations in this space could experience challenges to colonizing when

93. John Schwartz, supra note 2 (providing exact number of species potentially impacted by construction); Peters ET AL., supra note 10 (mentioning number of species documented on endangered species list to emphasize risk wall poses towards vulnerable animal populations).
94. See Worland, supra note 3 (emphasizing wall’s ability to diminish genetic diversity amongst species by physically preventing species interaction).
95. Barclay & Frostenson, supra note 8 (mentioning number of species most vulnerable to barriers preventing movement).
97. Id. at 72-73 (emphasizing height of wall as main challenge for ground-restricted animals).
98. Worland, supra note 3 (specifying most vulnerable endangered species at border).
99. See Barclay & Frostenson, supra note 8 (identifying threat immobility has on native species).
101. See Barclay & Frostenson, supra note 8 (discussing potential impacts of wall on population of jaguar present along border).
groups on the other side of the border become inaccessible. Climate change is an additional concern for restricted movement of borderland wildlife, making it harder for animals to adapt to new migratory weather patterns when a barrier restricts them to one space. For example, the recent impacts of climate change have caused some species to travel north for cooler climates, but a barrier would restrict animals south of the border from traveling north.

Researchers project plant-life indigenous to the borderlands will suffer a similar fate to wildlife. In Southern Texas, an endangered species of wildflower grows in the same location where the President plans to build the new barrier. In Western Texas, an endangered cactus species — the corystaphla ramillosa — grows along the wall’s new projected route. The barrier can also change the flight patterns of bees and butterflies and, in turn, disrupt the amount of pollen spread to plant species.

B. Projected Impact on Natural Resources and Air Quality

The materials necessary to construct the new portions of the border wall are sourced from local natural resources and, consequently, influence surrounding environments. The construction of a proposed fifty-foot border wall requires “tens or hundreds of thousands of gallons of groundwater” and 275 million cubic feet of concrete. Conservationists in areas such as the San Bernardino

102. Id. (emphasizing barrier’s potential to halt jaguar population increase).
104. Id. (discussing recent pattern of animal movement towards southern regions to seek warmer climates and connecting this recent finding to wall’s potential restriction on animal migration).
105. See Fowler et al., supra note 100 (discussing general risks wall poses to plant species).
106. Id. (mentioning specific plant species at risk if border wall construction continues).
107. Id. (emphasizing existence of volatile plant species along border).
108. See John Schwartz, supra note 2 (indicating potential physical border has in preventing spread of pollen and thus presenting health risk to plant species along border).
109. See Roche, supra note 14 (hinting at risk wall construction poses to surrounding natural resources).
Wildlife Refuge in Southern Arizona fear for the depletion of natural water that sustains wildlife, especially vulnerable fish species distinct to the area.\footnote{Lakhani, supra note 110 (documenting general concern of draining natural sources of water during construction project).}

The construction project will inevitably require massive amounts of water.\footnote{Id. (emphasizing projected water usage).} An agricultural ecologist projects the new barrier will use up to fifty million gallons of water along the Arizona route alone.\footnote{Id. (presenting estimated millions of gallons builders may use in Arizona border construction).} In the Tucson barrier region, one of nine wells supplying this water is already empty.\footnote{Id. (detailing rapid depletion of water as construction continues).} The wall’s size and stature can obstruct the natural flow of springs, rivers, and flood water.\footnote{See Meagher, supra note 4 (suggesting major consequence wall will have on environment during times of flooding).} In the event of a storm, the obstruction can cause severe flash flooding, similar to the disastrous event in Nogales.\footnote{See id. (proposing major consequence wall will have on environment during times of flooding). See also Barclay & Frostenson, supra note 8 (mentioning flash flooding events involving poor wall infrastructure).}

Plans for a portion of the proposed wall’s infrastructure require mass amounts of cement.\footnote{See Scientists warn Trump’s border wall will be bad for the planet, supra note 110 (explaining physical makeup of proposed wall would consist mostly of cement).} “The cement industry is already responsible for about 5% of the world’s annual carbon dioxide emissions,” and the wall’s construction is projected to exacerbate this figure.\footnote{See Meagher, supra note 4 (emphasizing cement industry’s contributions to global climate crisis).} If one thousand miles of wall were constructed, producing the necessary concrete would emit an estimated 1.9 million metric tons of carbon dioxide, the equivalent of “adding over 400,000 cars to the road every year.”\footnote{Id. (correlating wall construction’s potential cement usage with national increase in CO₂ emissions). See also Scientists Warn Trump’s Border Wall Will Be Bad for the Planet, supra note 110 (comparing wall construction’s potential CO₂ emissions to current annual household emissions in Pittsburgh, Pennsylvania).} The production of cement consumes 400 pounds of coal to be used for every single ton of cement.\footnote{See also Scientists warn Trump’s border wall will be bad for the planet, supra note 110 (projecting amount of water necessary to build wall).} See also Meagher, supra note 4 (mentioning specific impact wall will have on water usage and CO₂ omissions); Scientists warn Trump’s border wall will be bad for the planet, BLOMBERGNEF (Jan. 26, 2017), https://about.bnef.com/blog/scientists-warn-trumps-border-wall-will-be-bad-for-the-planet (listing projected amount of water and concrete necessary to build proposed wall).
cement produced. The harmful effects of depleting natural resources, and the greenhouse gases emitted by concrete production, are potentially worsened by the hundreds of miles of border wall yet to be constructed.

C. Projected Impact on Surrounding Wildlife Refuges and Other Protected Lands

The border’s surrounding area encompasses nearly twenty-five million acres of protected land. Within this range sits “six wildlife refuges, six national parks, tribal lands, wilderness areas, and conservation areas.” Within these environmentally impressive areas exists three mountain chains, the two largest deserts in North America, the Rio Grande, and vast farmland. In Texas alone, the proposed route of the new border wall will cut through federally protected wildlife refuges, state parks, a National Butterfly Center, and other culturally significant sites. By severing ecologically rich parks, wetlands, refuges, and sanctuaries, the wall not only threatens wildlife and plant life, but also deters the general public from visiting these tourist attractions.

Biologists from the University of Texas at Austin determined that Texas will bear the heaviest burden from wall construction. Since Texas encompasses the largest portion of borderlands between the U.S. and Mexico, many wildlife refuges and sanctuaries that run along the border in Texas are at risk. Thirty-three miles of border wall will be erected along the Lower Rio Grande Valley.

120. See also Scientists Warn Trump’s Border Wall Will Be Bad for the Planet, supra note 110 (noting wall construction’s additional environmental impact of increased natural resource consumption).
121. Id. (emphasizing severe potential environmental impact by referencing size of proposed border wall).
122. See Barclay & Frostenson, supra note 8 (referencing amount of federally protected land within border region).
123. Id. (listing types of protected borderland).
124. Id. (mentioning natural landmarks existing within protected borderland).
125. Id. (mentioning Texas’s environmentally significant locations impacted by impending border construction).
126. Id. (discussing construction’s impact on environmental tourism industry).
127. April Reese, As Work Begins on Trump’s Border Wall, a Key Wildlife Refuge Is at Risk, YALEENVIRONMENT360 (Feb. 28, 2019), https://e360.yale.edu/features/as-work-begins-on-trumps-border-wall-a-key-wildlife-refuge-is-at-risk (mentioning Texas is particularly vulnerable state to wall impacts).
128. Id. (referencing Texas’s size to demonstrate most borderland exists within state).
National Wildlife Refuge. This portion of the refuge is specifically dedicated to enhancing and rehabilitating the Tamaulipan Brushland, ninety-seven percent of which was destroyed by prior public use and construction. The Lower Rio Grande Valley is one of the “four pearls” of the wildlife corridor, along with the Bentsen-Rio Grande Valley State Park, the El Monrillo Banco tract of the Lower Rio Grande Valley, and the National Butterfly Center. Notably, the privately-owned National Butterfly Center in Mission, Texas will lose up to seventy acres of property from the invasive border wall.

The border wall has significantly impacted these refuges, sanctuaries, and parks that depend on visitors to maintain operations. Despite being one of Texas’s most coveted bird-watching locations, the Sabal Palm Sanctuary experienced a fifty percent decrease in visitors since the wall’s construction. The wall also impedes the Hidalgo Pumphouse and Birding Center, where it obstructs visitors’ visibility and affects the area’s general environmental aestheticism. A 2011 study “estimated that bird watching and other forms of environmental tourism brought more than $344 million in economic activity” to Texas, stimulating the state’s economy and providing over four thousand jobs.

Other border states – such as Arizona, New Mexico, and California – are experiencing similar challenges faced by refuges and sanctuaries along the borderlands in Texas. The Coronado National Forest is of particular concern for New Mexico and Arizona.

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129. Id. (noting number of miles wall will span along Texas’s Rio Grande region).
130. Id. (discussing ecosystems already affected by negative human impact).
131. Id. (likening landmarks to environmental gems along borderland).
132. See John Schwartz, supra note 2 (highlighting amount of land National Butterfly Center will surrender for border wall expansion).
133. Id. (suggesting most wildlife refuges rely on tourism funds for operation).
135. See Reese, supra note 127 (correlating wall’s impact on visibility with decreased environmental tourism).
136. See John Schwartz, supra note 2 (describing wall’s potential impact on state economy and local job market).
137. See Barclay & Frostenson, supra note 8 (mentioning states similar to Texas experiencing consequences of wall’s impact).
THE WALL THAT TRUMPS ENVIRONMENTAL LAW

The forest is home to the largest quantity of threatened and endangered species in the country. The forest also encompasses most of the “sky islands” that run through both Arizona and New Mexico, which are a series of mountain ranges home to some of the most diverse populations of species in North America.

V. AN IRONIC GESTURE: THE LAWS BROKEN TO ADVANCE THE
TRUMP ADMINISTRATION’S ANTI-CRIME INITIATIVE

The Real ID Act and the IIRAIRA have been crucial in legitimizing the DHS’s waiver of environmental laws to expedite wall construction. Under Section 102 of the IIRAIRA, the DHS, acting under executive order, has broad authority to authorize building projects dedicated to national security initiatives even if those projects fail to comport with environmental laws. With the powers granted to the DHS under the Real ID Act, the government may waive environmental laws that require in-depth environmental impact analyses. The Real ID Act also authorizes the DHS to suspend laws dedicated to the continued preservation of borderland ecosystems. Some of the most noteworthy laws currently waived to make way for the border wall include NEPA, the Endangered Species Act, the Clean Air Act, and the Clean Water Act.

138. Id. (recognizing joint concern of Arizona and New Mexico in preserving Coronado National Forest).
139. Id. (discussing environmental significance of Coronado Forest).
140. Id. (acknowledging “sky islands” and their biologically diverse environments).
142. See generally In re Border Infrastructure Envtl. Litig. v. Dep’t of Homeland Sec., 915 F.3d 1213, 1217 (9th Cir. 2019) (explaining legislative source of DHS’s authority to waive laws to construct barrier wall).
143. See Schwartz, supra note 2 (mentioning lack of environmental impact analysis as consequence of DHS waiving environmental laws to expedite border wall construction).
144. See Tobias, supra note 45 (noting types of laws DHS will waive to guarantee wall’s progression along border).
145. For a detailed list of all laws that will be waived by the DHS to build the border wall, see supra note 13 and accompanying text.
NEPA establishes specific requirements that government projects must satisfy in order to reduce environmental impact.\footnote{146. Summary of the National Environmental Policy Act, U.S. ENVTL. PROT. AGENCY, https://www.epa.gov/laws-regulations/summary-national-environmental-policy-act (last visited July 8, 2020) (containing NEPA provision dedicated to preserving environmentally significant regions).} Both Environmental Assessments (EA) and Environmental Impact Statements (EIS), which are significant portions of the NEPA process, will be waived to build the border wall.\footnote{147. Id. (discussing NEPA language requiring EAs and EISs for each government project that has potential to impact environment).} The Wilderness Act and the Endangered Species Act (ESA) are just two examples of legislation that will be waived by the DHS to expedite wall construction.\footnote{148. For information on the Wilderness Act, see The Wilderness Act, THE WILDERNESS SOC’Y, https://www.wilderness.org/articles/article/wilderness-act (last visited July 8, 2020) (explaining brief history of Act and its purpose in protecting natural habitats). For further information on the ESA, see Endangered Species Act, 16 U.S.C. § 1531 (2003) (mentioning key purposes and policy of ESA).} Both Acts are specifically dedicated to protecting wildlife and preserving land that government-mandated projects jeopardize.\footnote{149. 16 U.S.C. § 1531(a) (proclaiming federal initiatives to protect endangered species); see also The Wilderness Act, supra note 149 (explaining key purpose of Act to further environmental initiatives).}

Nation Reserve neighbors the Organ Pipe Cactus National Monument to the west and straddles the U.S.-Mexico border to the south. The vice chair of the Tohono O’Odham Nation spoke out against construction, arguing that a seventy-five-mile wall along tribal lands would violate tribal sovereignty. The neighboring protected land – the Organ Pipe Cactus National Monument – awaits the construction of a portion of wall that would restrict wildlife access to a communal watering hole.

VI. Activists’ Attempts to Prevent Further Construction Demonstrates Just How Steep the Wall is to Climb

The controversial construction project has elicited concern from environmental and cultural groups across the nation. In response to the wall, environmental advocates and multiple states filed lawsuits challenging the Trump Administration’s building plans. Anti-wall activists who are joined as parties to litigation have asked courts to consider abuse of executive power, illegal appropriation of funds, and the misapplication of constitutional law. Although activists continue to use legal resources to oppose further construction, the majority of these legal outcomes have maintained the wall’s progression.

In August 2018, the Animal Legal Defense Fund, Defenders of Wildlife, and the Center for Biological Diversity filed a petition for a writ of certiorari in the Supreme Court challenging a Ninth Circuit decision upholding the DHS’s authority to waive environmental

153. See Skolnick, supra note 11 (discussing geographical region that neighbors Organ Pipe Cactus National Monument).
154. See Roche, supra note 14 (mentioning Tohono O’Odham Tribe’s refusal to permit wall construction on Native American protected land).
155. See Skolnick, supra note 11 (discussing impact wall will have on diverse borderland wildlife when cutting through Organ Pipe).
156. See Tobias, supra note 45 (discussing concerns from conservatists and civil rights activists that Trump Administration’s use of Real ID Act “has effectively turned parts of the U.S. – Mexico border into a region without civil and environmental rights.”).
157. See Gilmer, supra note 28 (mentioning lawsuits challenging President Trump’s executive order to build wall).
159. See Roche, supra note 14 (noting challenges to successfully arguing against border wall in court).
tal laws for construction.\textsuperscript{160} Initially, a U.S. District Judge sitting in California had dismissed the case.\textsuperscript{161} The petitioners requested review of the DHS’s ability to waive environmental laws under IIRAIRA.\textsuperscript{162} Nine members of the House of Representatives wrote in support of petitioners.\textsuperscript{163} In their amicus brief, the representatives argued the DHS violated the Constitution by allowing unelected officials to waive laws enacted by Congress.\textsuperscript{164} The Court found the representatives’ constitutional arguments unconvincing and denied certiorari.\textsuperscript{165}

Just a few months after the Supreme Court declined to review the petition, the Sierra Club and Defenders of Wildlife filed a lawsuit in the Ninth Circuit challenging the DHS’s authority on similar grounds.\textsuperscript{166} The court disagreed with the plaintiffs’ argument and upheld the wall’s constitutionality.\textsuperscript{167} The court reasoned the IIRAIRA authorized the DHS to waive certain laws to further a national security initiative.\textsuperscript{168}

Sixteen states – including California and New Mexico – sued President Trump in the Northern District of California claiming the President abused his powers when he “manufactured” a crisis to trigger the national emergency doctrine.\textsuperscript{169} The states’ success depended on the court’s interpretation of certain constitutional provi-

\begin{itemize}
\item \textsuperscript{161} See id. (referencing procedural history to demonstrate complications faced by environmentalists in legal battles directed towards wall).
\item \textsuperscript{162} See id. (discussing parties’ argument that DHS exceeded its power under IIRAIRA when agency waived numerous environmental laws to expedite wall construction).
\item \textsuperscript{164} Id. at 4 (explaining summary of argument brought by nine House of Representatives members attacking DHS’s authority under IIRAIRA).
\item \textsuperscript{165} See Schultz, \textit{supra} note 160 (summarizing outcome of case despite brief filed in support of petitioners).
\item \textsuperscript{166} See Schwartz, \textit{supra} note 141 (mentioning Ninth Circuit case brought by Sierra Club arguing against DHS power to waive environmental laws).
\item \textsuperscript{167} Id. (mentioning decision of court generally).
\item \textsuperscript{168} Id. (explaining court’s general reasoning against granting decision in favor of plaintiffs).
\item \textsuperscript{169} See Savage & Pear, \textit{supra} note 158 (suggesting President’s strategy in declaring national emergency was to access funds originally denied by Congress).
\end{itemize}
sions regarding the emergency powers and federal funding. In December 2019, a judge issued a lengthy decision addressing the constitutional concerns brought by the states. The court granted declaratory judgement, ruling the government’s use of military funds to build the border wall in specified areas was unlawful. The decision contains a thorough analysis of 10 U.S.C. § 2808, ultimately concluding that the government could not use the national emergency doctrine as an alternative avenue to access funds for the wall without Congressional budget approval. Although the government have since appealed, this judgment marks a victory for advocates challenging the wall’s constitutionality.

The city of El Paso, Texas has experienced similar success in a legal battle challenging the Trump Administration’s construction of the border wall in Texas. The city claimed President Trump’s use of military funds was an illegitimate extension of executive power. Similarly, in October of 2019, the Western District of Texas concluded President Trump had violated the Consolidated Appropriations Act when he began financing the wall with money already dedicated to other government projects. The Trump Administration appealed the judgement to the Fifth Circuit, extending the life of the case in federal court.

170. Id. (discussing possibility of success for plaintiffs relies on court’s interpretation of administrative law).
172. Id. at 908 (concluding defendant’s seizure of military funds is not within executive power under NEPA).
173. Id. at 893 (citing 10 U.S.C. § 2808 as source of funding controversy since it permits President and Secretary of Defense to reallocate military funds during national emergencies).
176. Id. (discussing court’s holding in favor of plaintiffs).
177. Id. (discussing court’s reasoning for categorizing appropriation of wall funds from other government programs as illegal).
VII. BREAKING DOWN THE BARRIERS TO COMPROMISE: POTENTIAL SOLUTIONS TO QUELL THE WALL DEBATE

As the political debate regarding the U.S.-Mexico border wall continues, environmentalists are proposing alternative solutions to mitigate the wall’s ecological impact.179 These solutions consist of environmentally-friendly building plans that could eliminate unnecessary environmental harm.180 For example, conservationists have requested the DHS to conduct thorough environmental impact reports in alignment with NEPA pending further construction.181

Other solutions include the DHS prioritizing construction tactics that eliminate unnecessary environmental impact.182 In areas where environmental risk due to animal immobility is especially high, the DHS could construct the barrier in a way that makes it more permeable by species.183 Proposed solutions to limit animal immobility ask the DHS to place vehicle barriers instead of physical, permanent infrastructure whenever possible.184 Some environmental agencies have also proposed the use of electronic sensors to detect human movement in place of physical barriers.185

Although environmentalists have achieved some success in postponing construction, building the wall in certain regions along the border remains inevitable.186 With this in mind, environmentalists are requesting government officials to provide resources to support wildlife conservation in areas where the wall’s ecological impact is especially harmful.187 Tactics the DHS can adopt to further this initiative include increasing funds for impacted wildlife refuges, educating U.S. Border Patrol agents on environmentally-conscious procedures, and facilitating scientific research in im-

179. See Reese, supra note 127 (mentioning general environmentalist efforts to lessen impact of wall where construction is most likely to continue).
180. Id. (discussing possibility of alternative building solutions to lessen environmental impact).
181. See Peters et al., supra note 10 (expressing plea from conservationists to have DHS comply with NEPA requirements).
182. Id. (discussing possible alternative building solutions to lessen environmental impact).
183. Id. (mentioning environmentalist request for DHS to construct barriers that encourage rather than impede animal mobility).
184. Id. (mentioning alternative vehicle barrier instead of concrete infrastructure).
185. See Reese, supra note 127 (discussing possibility for officials to use advanced motion detection technology in place of physical barriers).
186. See Peters et al., supra note 10 (mentioning ongoing wall construction).
187. Id. (referencing possibility for government to financially support areas which have been most affected by wall construction).
pacted areas. Environmentalist groups can continue advocating in the legal space for the adoption of such measures, as courts across the nation are asked to explore the rocky constitutional terrain upon which the wall will be constructed.

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188. Id. (suggesting potential benefits from educating Border Patrol agents on environmental conservation and encouraging scientific studies along borderlands).

189. See Savage & Pear, supra note 158 (referencing legal challenges when bringing constitutional claims against parties responsible for border wall).

* J.D. Candidate, May 2021, Villanova University Charles Widger School of Law; B.A., English, 2018, College of the Holy Cross. I would like to thank my family, especially my parents who have repeatedly scarified their time and happiness so I could pursue my academic goals. I dedicate this Comment to them and my two sisters, Charlotte and Deirdre, whose love and encouragement means everything. I would also like to thank the Journal’s Editorial Board and Staff for their help in completing this Comment.